D01474520A

TASCAM

SS-R300N

SOLID STATE RECORDER

OWNER'S MANUAL



IMPORTANT SAFETY INSTRUCTIONS

	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Model for USA

Supplier's Declaration of Conformity

Model Number: SS-R300N
Trade Name: TASCAM
Responsible party: TEAC AMERICA, INC.
Address: 14525 Valley View Ave., Suite I, Santa Fe Springs, California 90670, U.S.A
Telephone number: 1-323-726-0303

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information to the user

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IN USA/CANADA, USE ONLY ON 120V SUPPLY.

Model for Canada

This Class B digital apparatus complies with Canadian ICES-003.

Model for Europe

This product complies with the European Directives request and the other Commission Regulations.

Model for UK

This product complies with applicable UK regulations.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- If the plug is used as the disconnect device, the disconnect device shall remain readily operable.
- If you are experiencing problems with this product, contact the store where you purchased the unit for a service referral. Do not use the product until it has been repaired.

WARNING

Products with Class I construction are equipped with a power supply cord that has a grounding plug. The cord of such a product must be plugged into an AC outlet that has a protective grounding connection.

WARNING

Avoid using this product with earphones or headphones at high volume for long amounts of time because excessive sound pressure (volume) could lead to hearing damage.

CAUTION

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.

⚠ Precautions concerning batteries

Misuse of batteries could cause them to rupture or leak leading to fire, injury or the staining of nearby things. Please read and observe the following precautions carefully.

- Be sure to insert the batteries with correct positive (+) and negative (–) orientations.
- Use batteries of the same type. Never use different types of batteries together.
- To prevent battery leakage, remove the batteries if the device will not be used for a month or longer.
- If the batteries leak, wipe away the leakage inside the battery compartment and replace the batteries with new ones.
- Do not use batteries of types other than those specified. Do not mix new batteries with old ones or use different types of batteries together.
- Do not heat or disassemble batteries. Never throw batteries into fire or water.
- Do not carry or store batteries with other metallic objects. The batteries could short circuit, leak or explode.
- Never recharge a battery unless it is confirmed to be a rechargeable type.
- Do not expose batteries to extremely low air pressure as it could result in an explosion or leakage of flammable liquids or gases.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- The unit power should be off when installing or replacing batteries (except when replacing batteries in the remote control unit).

For Customers in Europe

Disposal of waste electrical and electronic equipment, batteries and accumulators

If a crossed-out wheeled bin symbol is shown on the product, on its packaging, or in the accompanying documentation, the product is subject to European directives and/or regulations as well as national waste disposal laws.



Directives and laws stipulate that waste electrical and electronic equipment must not be disposed of with household waste (general waste). To ensure proper disposal, treatment, and recycling, you are obliged to dispose of old equipment through government-approved facilities.

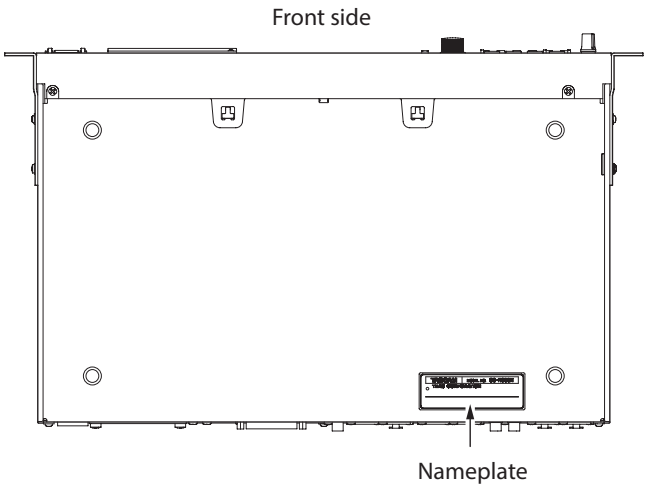
By disposing of such equipment properly, you help save valuable raw materials and prevent potentially harmful effects to human health and the environment that can result from improper waste disposal. Disposal is free of charge for you.

If a battery or accumulator contains more lead (Pb) or cadmium (Cd) than the amount specified in Regulation (EU) 2023/1542, the corresponding chemical abbreviation is shown in addition to the trash bin.



For more information on recycling and reuse, please contact the local government, the waste disposal company responsible for your area, or the store where you purchased the product.

The nameplate is located on the bottom of the unit as shown below.



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1 - Introduction

Thank you very much for purchasing a TASCAM SS-R300N Solid State Recorder.

Before using this unit, read this Owner's Manual carefully so that you will be able to use it correctly and enjoy working with it for many years. After you have finished reading this manual, please keep it in a safe place for future reference.

You can also download this Owner's Manual from the TASCAM website (https://tascam.jp/int/product/ss-r300n/docs).

Overview

- FTP client/server functions enable the uploading and downloading of recording/playback files
- FTPS client, SFTP server and SFTP client functions enable secure file handling (uploading and downloading)
- Event list functions allow recording, playback, downloading and other operations to be conducted automatically at set times
- TIME CORRECTION function enables time synchronization even in offline conditions when time synchronization with an NTP server is not possible
- Time synchronization using the SNTP client function enables even more accurate event execution
- Auto upload function can automatically upload recording data to a specified FTP/SFTP server
- Remote control from a network possible using OSC (Open Sound Control) and Telnet
- SD cards (including SDXC cards up to 512 GB) and USB flash drives supported
- CD playback also possible by connecting a CD DRIVE (sold separately) to the CD DRIVE connector on the back
- Dual slots for SD cards enable backup recording and relay recording
- MP3 and WAV files can be recorded/played and AAC files can be played
- Dual format recording allows simultaneous recording of both WAV and MP3 files
- Automatic file closing process prevents the loss of recorded data even during sudden power outages
- Link playback function enables simultaneous operation of two units
- Built-in inputs and outputs include analog XLR and RCA and digital AES/EBU and S/PDIF
- RS-232C serial and 25-pin D-sub parallel connectors built-in
- IF-DA2 interface card for two-channel Dante input and output can be installed (sold separately)
- TASCAM RC-SS150 flash start remote control unit supported (sold separately)
- USER KEY ASSIGN function allows assignment of functions as desired to the USER buttons on the front
- PARALLEL INPUT ASSIGN and PARALLEL OUTPUT ASSIGN functions allow assignment of functions as desired to the PARALLEL I/O
- Fade-in and fade-out playback functions
- Analog output can be muted when recording (excluding headphone output)
- The PLAY, PAUSE and RECORD buttons light dimly when stopped, making the transport buttons more visible in dim environments
- Dedicated app (TASCAM Playlist Editor) enables using a computer to create and edit playlists and timer event lists for the unit

Conventions used in this manual

In this manual, we use the following conventions:

- "SD card" indicates SD, SDHC and SDXC memory cards.
- "USB flash drives" are sometimes called "USB drives".
- A device (sold separately) that can be connected to this unit's CD DRIVE port is called an "external CD drive".
- CD-DA format discs are sometimes called "audio CDs". An audio disc containing tracks recorded in audio CD format is sometimes referred to as an "audio CD".
- A CD with MP3 and WAV files on it is called a "data CD".
- The medium that is currently selected is called the "current medium".
- The folder that is currently selected is called the "current folder".
- The playlist that is currently selected is called the "current playlist".
- Additional information is introduced in the styles below when needed:

TIP

These are tips about how to use the unit.

NOTE

These provide additional explanations and describe special cases.

ATTENTION

Failure to follow these instructions could result in damage to equipment or lost data, for example.

⚠ CAUTION

Failure to follow these instructions could result in injury.

Trademarks

- TASCAM is a registered trademark of TEAC Corporation.
- SDXC Logo is a trademark of SD-3C, LLC.



- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Supply of this product does not convey a license nor imply any right to distribute MPEG Layer-3 compliant content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), streaming applications (via Internet, intranets and/or other networks), other content distribution systems (pay-audio or audio-on-demand applications and the like) or on physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com.



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With the exception of personal enjoyment and similar uses, copyrighted materials belonging to third parties cannot be used without permission from the rights holders in accordance with copyright law. Please use the equipment appropriately.

TEAC Corporation will bear no responsibility for rights infringements committed by users of this product.

Notes about power supplies

- Insert the included power cord all the way into the AC IN connector.
- Only connect a power supply that is AC100-240V (50/60Hz) to the AC IN connector.
- Hold the power cord by its plug when connecting or disconnecting it.

⚠ CAUTION

The included power cord has a rated voltage of 125V AC.
It cannot be used with over 125 V.

This product has been designed to minimize impacts on the environment.
Using the AUTO POWER SAVE function, the unit will automatically switch to standby mode if no operation is conducted for the set time, reducing unnecessary energy consumption. In addition, consideration has been made for lengthening the lifespan of the product with the firmware upgrading function, which enables continuous functional improvements and maintenance support.
By providing product repairs and maintenance services, we are supporting long-term use and the efficient use of resources.

Beware of condensation

Condensation could occur if the unit is moved from a cold place to a warm place, it is used immediately after a cold room has been heated or it is otherwise exposed to a sudden temperature change.
To prevent this, or if this occurs, let the unit sit for one or two hours at the new room temperature before using it.

Cleaning the unit

Use a dry soft cloth to wipe the unit clean. Do not wipe with chemical cleaning cloths, thinner, alcohol or other chemical agents. Doing so could damage the surface or cause discoloration.

SD cards and USB flash drives

This unit uses SD cards and USB flash drives for recording and playback.

A list of SD cards and USB flash drives that have been confirmed for use with this unit is available on the TASCAM website (https://tascam.jp/int/product/ss-r300n/docs). Please refer to the product page for this model. You can also contact TASCAM customer support.

- In case of the failure of the Product caused by the tapes or other media ("Media") you used, the repair for the failure shall not be covered by the warranty of the Product and must be done at your own expense.
  - It is highly recommended that you shall avoid using the Media such as those not used for years or used after a long period of use or those with mold, blots, stickiness, folds, creases or twists.
- TEAC shall never be responsible for any damages due to the Media including but not limited to the corruption or breakage of the Product or the Media, dragging the tapes into the Product, and/or loss of data in whole or in part that arises out of or related to the use of the Media. That is the same for any damages such as lost profit, indirect or consequential damages, and/or special damages.
  - It is highly recommended that you shall take appropriate measures to prepare for the unexpected loss of data along with the Copyright Act of your country or region.

Precautions for use

SD cards and USB flash drives are delicate media.

In order to avoid damaging SD cards and USB flash drives, please take the following precautions when handling them.

- Do not leave them in extremely hot or cold places.
- Do not leave them in extremely humid places.
- Do not let them get wet.
- Do not put things on top of them or twist them.
- Do not hit them.
- Do not remove or insert them during recording, playback, data transmission or other access.
- When transporting them, put them into cases, for example.

SD card write protection

This unit writes track information to media in order to improve operation performance. Since track information cannot be written to SD cards that are write-protected, the amount of time needed to read media will become longer, for example.

Note about formatting

SD cards and USB flash drives formatted by this unit are optimized to improve performance during recording. Use this unit to format the SD cards and USB flash drives to be used with it. Errors might occur when recording with this unit using an SD card or USB flash drive formatted by a computer or other device.

About compact discs

In addition to commercially-available music CDs, this unit can play CD-R and CD-RW discs that have been recorded in audio CD (CD-DA) format.

Playback is possible by connecting an external CD drive (sold separately) to the CD DRIVE connector on the back of this unit.

Precautions for use

Check the operation manual of the external CD drive being used.

Supplying power to external CD drives

The CD DRIVE connector on the back of this unit can supply power to the external CD drive connected to it, but operation of all devices is not guaranteed. Some drives that exceed the rated capacity of the CD DRIVE connector, including those that consume large amounts of power or that have special functions, might not work properly due to insufficient power. (For example, they might not be recognized or might not stop spinning.)

In such cases, connect a power source (an AC adapter, for example) directly to that device. Do not connect and use a device that exceeds the rated capacity of the unit's CD DRIVE connector without an external power supply. (See "Control input/output" on page 133.)

About TASCAM customer support service

TASCAM products are supported and warrantied only in their country/region of purchase.

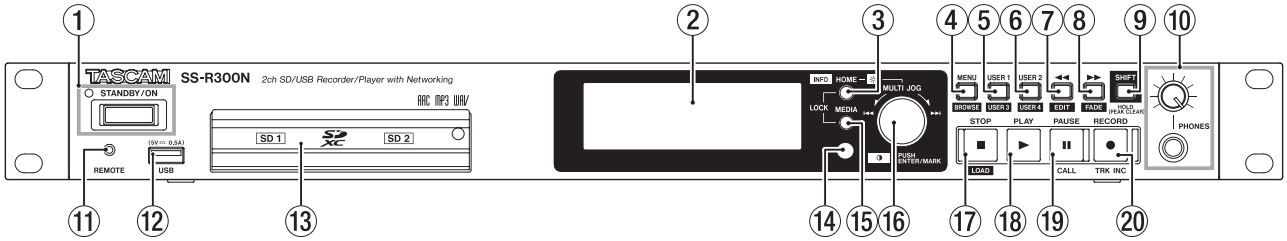
To receive support after purchase, on the TASCAM Distributors list page of the TEAC Global Site (https://teac-global.com/), search for the local company or representative for the region where you purchased the product and contact that organization.

When making inquiries, the address (URL) of the shop or web shop where it was purchased and the purchase date are required.

Moreover, the warranty card and proof of purchase might also be necessary.

2 - Names and Functions of Parts

Front panel



① STANDBY/ON button and indicator

Press this button to turn the unit on and off (standby).

The STANDBY/ON indicator lights when the unit is off.

⚠ CAUTION

Before turning the unit on, lower the volumes of connected equipment to their minimum levels.

Failure to do so could result in a sudden loud noise that could harm hearing, for example.

NOTE

When the power is on, press and hold this button for about nine seconds or more to force the unit to restart.

Do not do this when the unit is operating (including recording or playing audio, or writing data to an SD card or USB flash drive). Doing so could cause proper recording to fail and recorded data to be lost.

② Display

This shows a variety of information.

③ HOME [INFO] button

- When a Menu or BROWSE screen is open, press this button to return to the Home Screen.
- When the Home Screen is open, press this button to change the Home Screen display mode. (See "Home Screen" on page 17 and "Recording Screen" on page 18.)

TRACK → TOTAL → TITLE → FOLDER

- Press this button and the MEDIA button at the same time to open the LOCK SETUP screen. (See "Setting the lock function" on page 31.)
- Press this button while pressing the SHIFT button to show the operation status of the unit. (See "Opening the INFORMATION screen" on page 32.)

④ MENU [BROWSE] button

- When the Home Screen is open, press this button to open the Menu Screen. (See "Menu structure" on page 20 and "Basic Menu Screen operations" on page 22.)
- When the Menu Screen is open, press this button to change the menu page.
- When a sub menu screen is open, press this button to go back one step in the menu.
- When playing back, in playback standby or stopped on the Home Screen, press this button while pressing the SHIFT button to open the BROWSE screen. (See "Jog playback" on page 38.)
- Press this button when a pop-up message is open to close it.

⑤ USER 1 [USER 3] button

Press this button to use the function assigned to "USER 1" on the USER KEY ASSIGN screen.

Press this button while pressing the SHIFT button to use the function assigned to "USER 3" on the USER KEY ASSIGN screen. (See "Assigning functions to the USER buttons" on page 32.)

⑥ USER 2 [USER 4] button

Press this button to use the function assigned to "USER 2" on the USER KEY ASSIGN screen.

Press this button while pressing the SHIFT button to use the function assigned to "USER 4" on the USER KEY ASSIGN screen. (See "Assigning functions to the USER buttons" on page 32.)

⑦ ◄◄ [EDIT] button

- When playing back or in playback standby, press to skip by the amount of time set with the time skip function. (See "Using the time skip function" on page 46.)
- When playing back or in playback standby, press and hold this button to search backward while outputting audio (review).
- When stopped and the playback area is set to "FOLDER", press to switch the current folder.
- When stopped and the playback area is set to "PLAYLIST", press to switch the current playlist.
- When the BROWSE screen is open, press this button to go up one level. (See "Navigating the BROWSE screen" on page 50.)
- Press this button while pressing the SHIFT button to open the edit menu pop-up. (See "Edit menu operations" on page 80.)

⑧ ►► [FADE] button

- When playing back or in playback standby, press to skip by the amount of time set with the time skip function. (See "Using the time skip function" on page 46.)
- When playing back or in playback standby, press and hold this button to search forward while outputting audio (cue).
- When stopped and the playback area is set to "FOLDER", press to switch the current folder.
- When stopped and the playback area is set to "PLAYLIST", press to select the current playlist.
- When the BROWSE screen is open and a folder is selected, press this button to show the contents of that folder. (See "Navigating the BROWSE screen" on page 50.)
- Press this button while pressing the SHIFT button when in playback standby to start fade-in playback.
- Press this button while pressing the SHIFT button when playing back to start fade-out playback and pause playback after the specified time has elapsed. (See "Fade-in and fade-out playback" on page 39.)

⑨ SHIFT [HOLD (PEAK CLEAR)] button

- While pressing this button, press a button with a blue label to use that function.
- When the Home Screen is open, press this button to scroll file and folder names.
- When the BROWSE screen is open, press this button to scroll file and folder names that are not shown completely.
- When the Home Screen is open, press and hold this button to clear the peak hold indicators.
- While pressing this button, turn the MULTI JOG dial to adjust the contrast of the display.

⑩ PHONES jack/knob

Use this standard stereo jack to connect stereo headphones. Use an adapter to connect headphones with a mini plug.

Use the PHONES knob to adjust the headphone output level.

⚠ CAUTION

Before connecting headphones, minimize the volume with the PHONES knob. Failure to do so could result in a sudden loud noise that could harm hearing, for example.

⑪ REMOTE jack (2.5 mm dia TRS)

Connect a TASCAM RC-3F footswitch or TASCAM RC-20 direct play remote control (both sold separately) here. This enables remote starting and stopping of playback and other functions.

When a TASCAM RC-3F footswitch is connected, you can change the functions of the three pedals. (See "Using a footswitch (TASCAM RC-3F)" on page 126.)

⑫ USB port

Connect (and disconnect) USB flash drives here. (See "Connecting and disconnecting USB flash drives" on page 29.)

When a USB flash drive is connected, files on it can be played back and files can be recorded to it. In addition, you can also connect a USB keyboard here and use it to input folder and file names, for example, as well as for external control.

By default, the unit is set to use a Japanese (JIS) keyboard. Since English and Japanese (JIS) keyboards use different layouts, change the setting on the KEYBOARD TYPE screen if you are using an English keyboard. (See "Setting the keyboard type" on page 120.)

NOTE

Do not connect any device other than a USB flash drive or a USB keyboard.

⑬ SD card slots

Insert SD cards in these slots. (See "Inserting and removing SD cards" on page 28.)

⑭ Remote control signal receiver

Signals from the remote control (TASCAM RC-10) are received here. When operating the remote control, point it toward this receiver.

⑮ MEDIA button

- When the Home Screen is displayed, press this button to open the MEDIA SELECT Screen. (See "Selecting media" on page 30.)
- Press this button and the HOME [INFO] button at the same time to open the LOCK SETUP screen. (See "Setting the lock function" on page 31.)

⑯ MULTI JOG dial

This dial functions as a dial when turned and as a button when pressed.

Dial functions

- When the home screen is open during playback or playback standby and marks have been added, turn the MULTI JOG dial to move to marks. When there are no marks, turn right to skip to the next track or turn left to skip to the previous track.
- When the Home Screen is open and the unit is stopped, turn the MULTI JOG dial right to skip to the next track or turn left to skip to the previous track.
- When inputting a program, use to select tracks to assign.
- When a Menu Screen is open, turn to select items and change setting values.
- When editing names, use to select characters.
- During jog playback, use to move in 10msec intervals. (See "Jog playback" on page 38.)
- While pressing the SHIFT button, turn the MULTI JOG dial to adjust the contrast of the display.
- While pressing the HOME [INFO] button, turn the MULTI JOG dial to adjust the brightness of the display and the various indicators.
- When the BROWSE screen is open, turn to select folders and files within the same folder. (See "Navigating the BROWSE screen" on page 50.)

Button functions

- When the Home Screen is open and the unit is stopped, recording, in recording standby, playing back or in playback standby, press this button to add a mark. (See "Adding marks manually when recording" on page 76 and "Adding marks" on page 94.)
- When a Menu Screen is open, press to confirm selections and settings (ENTER button function).
- When the BROWSE screen is open, press this to show the pop-up folder/file menu for the selected folder/file. (See "Folder operations" on page 51 and "File operations" on page 52.)

ATTENTION

Marks cannot be added when the current medium is "CD".

⑰ STOP [LOAD] button

- Press to stop playback or recording.
- When the playback area is set to "PROGRAM" and playback is stopped, press to clear the entire program.
- Press this button while pressing and holding the SHIFT button to start flash loading.

⑱ PLAY button/indicator

- Press when stopped or in playback standby to start playback.
- Press when in recording standby to start recording.
- This button lights during playback and recording.
- This button blinks during jog playback.
- When stopped, the PLAY indicator will stay lit dimly.

⑲ PAUSE [CALL] button/indicator

- Press when stopped or playing back to start playback standby.
- Press when recording to start recording standby.
- This button lights when in playback standby or recording standby.
- This button blinks during jog playback.
- When in playback standby, press this button to search for the call point (last point playback started from playback standby) and resume playback standby. (See "Using the call function" on page 47.)
- When stopped, the PAUSE indicator will stay lit dimly.

⑳ RECORD [TRK INC] button/indicator

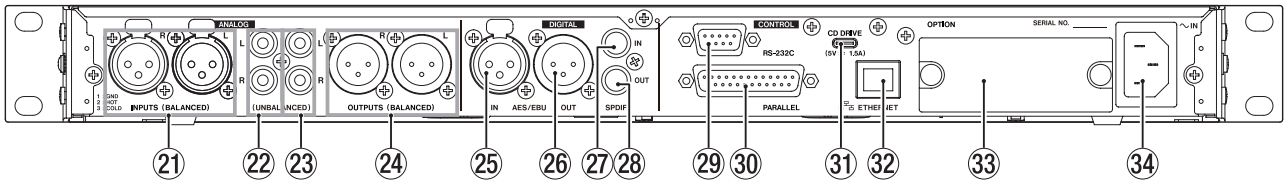
- Press when stopped to start recording standby.
- When recording, press to divide the recording by creating a new file (increment the track number).
- This button lights when recording or in recording standby.
- If the currently-selected medium is not loaded, pressing this button starts input monitoring and the selected input signal will be output. This button blinks during input monitoring.
- When stopped, the RECORD indicator will stay lit dimly.

NOTE

To turn off the PLAY, PAUSE and RECORD indicators, set the LCD BRIGHTNESS item to "0". (See "Adjusting the display and indicator brightness" on page 27.)

With this setting, these indicators will stay unlit even when playing, playback is paused or recording.

Rear panel



㉑ MIC/LINE IN (BALANCED) L/R jacks

These are balanced XLR analog input jacks.

The nominal input level can be set to either +4 dBu (default) or +6 dBu. (1: GND, 2: HOT, 3: COLD), (See "Setting the reference level" on page 119.)

㉒ ANALOG IN (UNBALANCED) L/R jacks

These are analog RCA pin input jacks.

The nominal input level is –10 dBV.

㉓ ANALOG OUT (UNBALANCED) L/R jacks

These are analog RCA pin output jacks.

The nominal output level is –10 dBV.

㉔ ANALOG OUT (BALANCED) L/R jacks

These are balanced XLR analog output jacks.

The nominal output level can be set to either +4 dBu (default) or +6 dBu. (1: GND, 2: HOT, 3: COLD), (See "Setting the reference level" on page 119.)

㉕ AES/EBU IN jack

This is a balanced XLR AES3-2003/IEC60958-4 (AES/EBU) format digital audio input jack.

A sampling rate converter that supports 32 - 192 kHz is built-in. (See "Using the sampling rate converter" on page 73.)

To link two SS-R300N units, connect the AES/EBU OUT jack on the other unit to this jack. (See "Making connections for link playback" on page 48.)

NOTE

Linking with SS-R250N and SS-CDR250N units is also possible.

㉖ AES/EBU OUT jack

This is a balanced XLR AES3-2003/IEC60958-4 (AES/EBU) format digital audio output jack.

To link two SS-R300N units, connect the AES/EBU IN jack on the other unit to this jack. (See "Making connections for link playback" on page 48.)

㉗ SPDIF IN jack

This is a digital audio input jack.

A sampling rate converter that supports 32 -192 kHz is built-in. (See "Using the sampling rate converter" on page 73.)

To link two SS-R300N units, connect the SPDIF OUT jack on the other unit to this jack. (See "Making connections for link playback" on page 48.)

㉘ SPDIF OUT jack

This is a digital audio output jack.

Signals can be output in IEC60958-3 (S/PDIF) format.

To link two SS-R300N units, connect the SPDIF IN jack on the other unit to this jack. (See "Making connections for link playback" on page 48.)

㉙ RS-232C connector

This is a 9-pin D-sub RS-232C control input/output connector.

Connect a TASCAM RC-SS150 remote control or personal computer, for example, here. (See "Using the RS-232C connector" on page 126.)

㉚ PARALLEL connector

This is a 25-pin D-sub parallel control input/output connector.

Connect a TASCAM RC-SS20 or other external controller here.

㉛ CD DRIVE connector

This connector is for an external CD drive. (See "Supplying power to external CD drives" on page 10.)

This supports the USB Type-C® Locking Connector specification, so Type-C cables with screw lock functions (single or dual screw) can be used.

NOTE

Do not connect any device other than a CD drive here.

㉜ ETHERNET connector

This is an Ethernet port. Use this to connect to a network, transfer files and control the unit externally.

㉝ OPTION slot

Use this slot to install an I/O card (sold separately).

㉞ AC IN connector

Plug the included power cord in here.

PARALLEL connector overview

The PARALLEL connector on the back allows external control of the unit. (A TASCAM RC-SS20 can also be connected.)

The pin assignments are as follows.

Pin No.	Function	IN/OUT
1	GND	–
2	PLAY / Flash 1	IN
3	STOP / Flash 2	IN
4	RECORD / Flash 3	IN
5	►►I (Next) / Flash 4	IN
6	I◄◄ (Previous) / Flash 5	IN
7	Flash Load1	IN
8	INPUT AUX1(Fader Start)2 / None	IN
9	OUTPUT AUX 1 (FLASH Tally)3	OUT
10	OUTPUT AUX 2 (PAUSE Tally)3	OUT
11	OUTPUT AUX 3 (RECORD Tally)3	OUT
12	OUTPUT AUX 4 (STOP Tally)3	OUT
13	OUTPUT AUX 5 (PLAY Tally)3	OUT
14	Remote Select4	IN
15	PAUSE / Flash 6	IN
16	INPUT AUX 2 (CALL)2 / Flash 7	IN
17	INPUT AUX 3 (AUTO CUE)2 / Flash 8	IN
18	INPUT AUX 4 (AUTO READY)2 / Flash 9	IN
19	INPUT AUX 5 (PITCH)2 / Flash 10	IN
20	Flash Page5	IN
21	EOM Tally	OUT
22	DEVICE SELECT Tally 16	OUT
23	DUCKING Tally	OUT
24	DEVICE SELECT Tally 26	OUT
25	+5V	-

IN: External command reception active low (usually 30 msec or more, 1 sec or more when recording MP3 files, functions when connected to GND)

OUT: Transport status display signals by open collector (10Ω output impedance, 20V withstand voltage, 35mA maximum current)

+5V: 50mA maximum supplied current

[1] Pin 7 (Flash Load)

Switching this pin from high to low activates flash loading. (See "Using the flash start function" on page 49.)

Press the flash load key when playing or in playback standby to stop playback.

[2] INPUT AUX 1–5: pins 8, 16, 17, 18, 19

Functions can be selected. (See "Assigning functions to PARALLEL input connectors" on page 33.)

Pin No.	Restoring default settings
Pin 8	FADER START
Pin 16	CALL
Pin 17	AUTO CUE
Pin 18	AUTO READY
Pin 19	PITCH

[3] OUTPUT AUX 1–5: pins 9–13

Functions can be selected. (See "Assigning functions to PARALLEL output connectors" on page 34.)

Pin No.	Restoring default settings
Pin 9	FLASH Tally
Pin 10	PAUSE Tally
Pin 11	RECORD Tally
Pin 12	STOP Tally
Pin 13	PLAY Tally

Pin 11 (OUTPUT AUX 3 (RECORD Tally)

The status when recording is paused differs according to the RECORD TALLY menu screen setting. (See "Setting the RECORD Tally" on page 126.)

Setting value	When recording paused
REC ONLY	High
REC PAUSE/REC	Low

[4] Pin 14 (Remote Select)

When high, the first function is enabled when there are two functions separated by a / for the input pin in the above table (pins 2–6 and 15–19), and it can be used as an ordinary parallel controller.

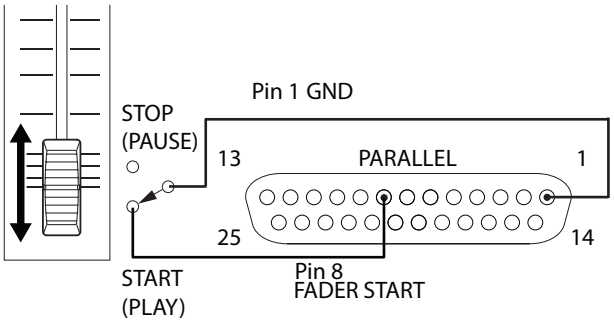
When low, those input pins function as flash start keys.

[5] Pin 20 (Flash Page)

When pin 14 (Remote Select) is low, the pin 20 high/low status determines the assigned tracks as follows.

#14	#20	Flash start tracks
Low	High	1–10
Low	Low	11–20

In the following connection example, fader starts and stops control playback of this unit.



ATTENTION

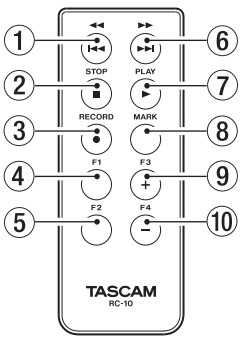
When pin 14 is low (flash start), fader starting and stopping cannot be used.

[6] Pin 22/Pin 24 (DEVICE SELECT Tally 1/2)

The high/low statuses of pins 22 and 24 determine the device assignments as follows.

Selected device	#22	#24
USB	Low	Low
SD1	High	High
SD2	High	Low
CD	Low	High

Wireless remote control (TASCAM RC-10)



① ◄◄ / I◄◄ button

Press briefly during playback to skip to the beginning of the track.

Press briefly when near the beginning of a track to skip to the beginning of the track before it.

Press and hold to search backwards.

When the BROWSE screen is open, press to move up one level. (See "Navigating the BROWSE screen" on page 50.)

② STOP [■] button

Press to stop playback or recording.

③ RECORD [●] button

Press when stopped to start recording standby.

When recording, press to increment the track number (create a new file and continue recording). (See "Incrementing track numbers manually" on page 75.)

④ F1 button

This has the same function as the PAUSE button on the main unit.

Press when stopped or playing back to start playback standby.

Press when recording to start recording standby.

⑤ F2 button

This has the same function as the HOME button on the main unit.

When a Menu Screen is open, press this button to return to the Home Screen.

Press when the Home Screen is open to change the display mode. (See "Home Screen" on page 17.)

⑥ ►► / ►►I button

Press briefly to skip to the beginning of the next track.

Press and hold to search forward.

When the BROWSE screen is open and a folder is selected, press this button to open that folder.

⑦ PLAY [►] button

Press when stopped or playback ready to start playback.

Press when in recording standby to start recording.

⑧ MARK button

When stopped, recording, playing back or in playback standby, press this button to add a mark. (See "Adding marks manually when recording" on page 76 and "Adding marks" on page 94.)

⑨ F3 [+] button

- Press this when the Home Screen is open to conduct the following operations, which are the same as turning the MULTI JOG dial right.
  - Press this when playing or in playback standby when marks have been added to move to marks. When there are no marks, press this to skip to the next track.
  - Press this when stopped to skip to the next track.
  - During jog playback, use to move in 10msec intervals. (See "Jog playback" on page 38.)
- When the BROWSE screen is open, press to move the cursor up. (See "Navigating the BROWSE screen" on page 50.)

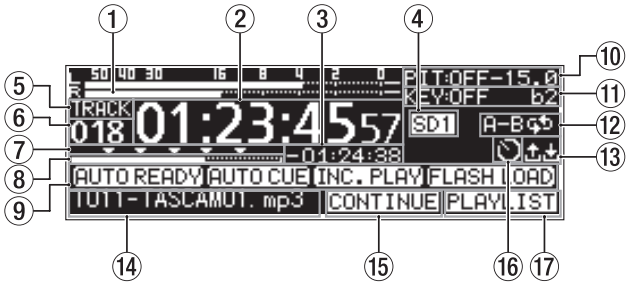
⑩ F4 [–] button

- Press this when the Home Screen is open to conduct the following operations, which are the same as turning the MULTI JOG dial left.
  - Press this when playing or in playback standby when marks have been added to move to marks. When there are no marks, press this to skip to the previous track.
  - Press this when stopped to skip to the previous track.
  - During jog playback, use to move in 10msec intervals. (See "Jog playback" on page 38.)
- When the BROWSE screen is open, press to move the cursor down. (See "Navigating the BROWSE screen" on page 50.)

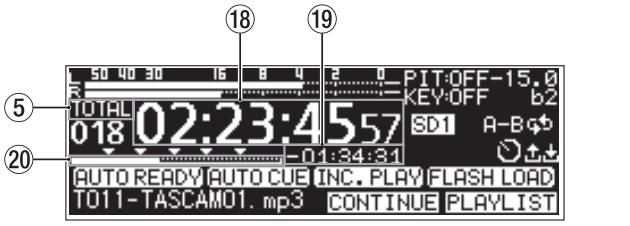
Home Screen

The Home Screen has four display modes: TRACK, TOTAL, TITLE and FOLDER.

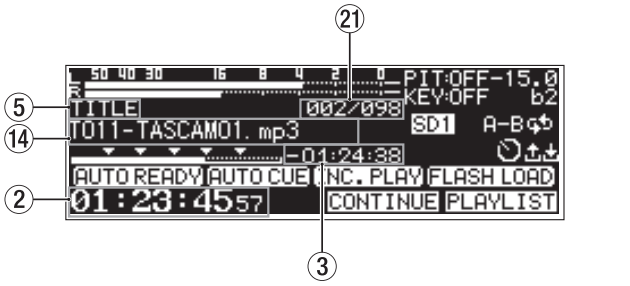
Each time you press the HOME [INFO] button, the display mode will change.



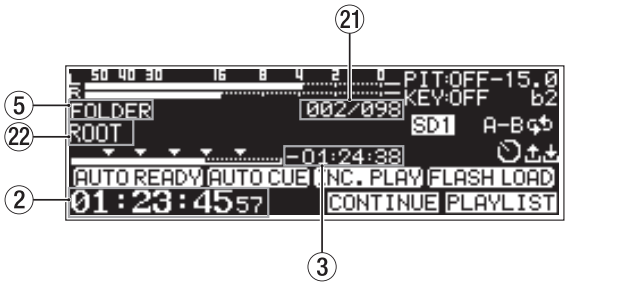
Home Screen TRACK display mode



Home Screen TOTAL display mode



Home Screen TITLE display mode



Home Screen FOLDER display mode

① Level meters

This area shows the levels of the input and playback signals.

② Elapsed time from track beginning

This shows the elapsed time from the beginning of the current track (hours: minutes: seconds).

During jog playback 10msec intervals are also shown.

NOTE

If the elapsed time exceeds 100 hours, "99:59:59" will be shown.

③ Remaining time to track end

This shows the remaining time to the end of the current track (hours: minutes: seconds).

NOTE

If the remaining time exceeds 100 hours, "99:59:59" will be shown.

④ Current medium

This shows the name of the currently selected medium. (See "Selecting media" on page 30.)

USB : USB flash drive selected

SD1 : SD card 1 selected

SD2 : SD card 2 selected

CD : CD selected

⑤ Display mode

This shows the current Home Screen display mode.

⑥ Track number

This shows the number of the currently playing track.

⑦ Mark display

Marks are shown by ▼ icons.

⑧ Track playback position

This bar shows the current playback position.

As playback progresses, the bar extends from the left.

⑨ Playback function activation status

Icons appear for the playback functions that are currently on.

Icon	Meaning
AUTO READY	Appears when auto ready function is on
AUTO CUE	Appears when auto cue function is on
INC. PLAY	Appears when incremental playback function is on
FLASH LOAD	Appears when already flash loaded

⑩ Pitch control status

This shows whether the pitch control function is on/off and the currently set pitch adjustment.

⑪ Key control status

This shows whether the key control function is on/off and the currently set key adjustment.

⑫ Repeat playback status

An icon appears when the repeat playback function is on.

: Repeat playback

A-B : A-B repeat playback

⑬ Upload/download status

An icon appears when files, for example, are being uploaded or downloaded via a network.

: Uploading

: Downloading

⑭ Track title

This shows the title of the current track.

Press the SHIFT button on the unit to scroll this.

⑮ Playback mode

This shows the current playback mode. (See "Setting the play mode" on page 37.)

CONTINUE : Continuous playback mode

SINGLE : Single playback mode

PROGRAM : Program playback mode

RANDOM : Random playback mode

⑯ **Timer event setting status**

The ⧁ icon appears when the timer event function is on. (See "Turning the timer event function on/off" on page 86.)

⑰ **Playback area**

This shows the current playback file area.

ALL : All files on the current medium

FOLDER : All files in the selected folder

PLAYLIST : All files assigned to the playlist

⑱ **Total track recorded time**

This shows the elapsed time of the play area (hours: minutes: seconds).

⑲ **Total track remaining time**

This shows the remaining time of the play area (hours: minutes: seconds).

⑳ **Total elapsed playback position**

This bar shows the current playback position.

As playback progresses, the bar extends from the left.

㉑ **Track number/total number of tracks**

This shows the current track number and total number of tracks in the current playback area.

㉒ **Folder name**

This shows the name of the folder that contains the current track.

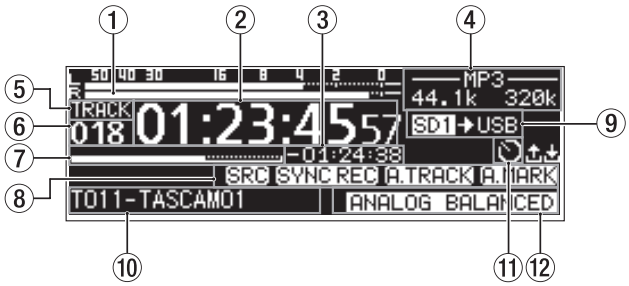
NOTE

- When stopped, the total playback time of the playback area is always shown regardless of the Home Screen display mode setting.
- In PROGRAM mode, the elapsed time and remaining time are shown for the entire program rather than the entire playback area.

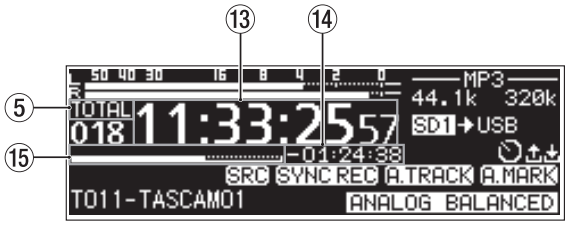
Recording Screen

The Recording Screen has four display modes: TRACK, TOTAL, TITLE and FOLDER.

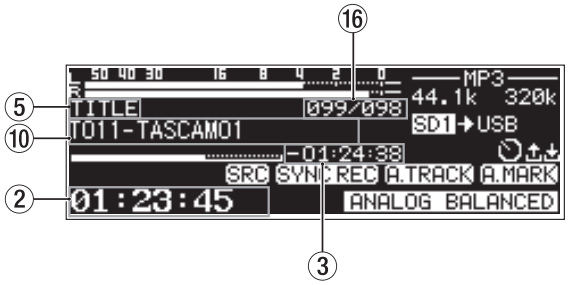
Each time you press the HOME [INFO] button, the display mode will change.



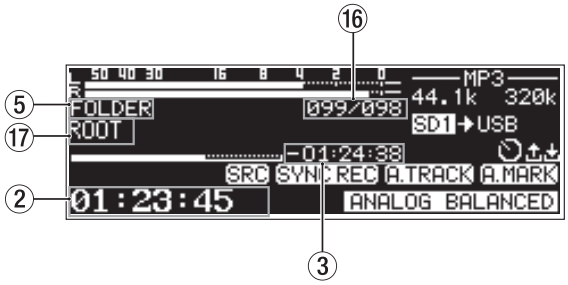
Recording Screen TRACK display mode



Recording Screen TOTAL display mode



Recording Screen TITLE display mode



Recording Screen FOLDER display mode

① **Input levels**

The input sound levels are shown.

② **Elapsed track recording time**

This shows the elapsed time of the recorded track (hours: minutes: seconds).

③ **Remaining track recording time**

This shows the remaining available recording time (hours: minutes: seconds).

④ File type

This shows the current recording file format.

When dual format recording is on, two file formats are shown like MP3/WAV. (See "Making recording format settings" on page 69.)

⑤ Display mode

This shows the current Home Screen display mode.

⑥ Track number

This shows the number of the track currently being recorded.

⑦ Track recording position

The current recording position is shown by a bar. As recording progresses, the bar extends from the left.

⑧ Recording function activation status

Icons appear for the recording functions that are currently on.

Icon	Meaning
SRC	Appears when the sampling rate converter is on
SYNC REC	Appears when the sync recording function is on
A.TRACK	Appears when the automatic track incrementation function is on
A.MARK	Appears when the automatic mark function is on

⑨ Current medium

This shows the name of the currently selected medium.

When the relay recording function is on, an icon like SD1→SD2 will appear that shows the current medium and the next medium to be used for recording. (See "Making recording format settings" on page 69.)

When the backup function is on, an icon like SD1 SD2 will appear that shows the two types of media used for recording. (See "Making recording format settings" on page 69.)

⑩ Track title

This shows the title of the track being recorded.

⑪ Timer event setting status

The icon appears when the timer event function is on. (See "Turning the timer event function on/off" on page 86.)

⑫ Input setting status

This shows the name of the currently selected input.

Icon	Meaning
ANALOG UNBALANCED	Input from ANALOG INPUTS (UNBALANCED) L/R jacks
ANALOG BALANCED	Input from ANALOG INPUTS (BALANCED) jacks
DIGITAL XLR	Input from AES/EBU IN jack
DIGITAL COAXIAL	Input from SPDIF IN jack
IF-DA2(Dante)	Input from IF-DA2 Dante interface card

⑬ Total track elapsed time

This shows the total recording time of everything on the current medium (hours: minutes: seconds).

⑭ Total track remaining time

This shows the remaining recording time available on the current medium (hours: minutes: seconds).

⑮ Total recording position

The current recording position is shown by a bar.

As recording progresses, the bar extends from the left.

⑯ Track number/total number of tracks

This shows the current track number and total number of track in the current playback area.

⑰ Name of track recording folder

This shows the name of the folder where tracks are recorded.

NOTE

- If the Selected time display exceeds 100 hours, "99:59:59" will be shown.
- The remaining time differs according to the file recording format. (See "Setting the recording file format" on page 69.)

Menu structure

Press the MENU [BROWSE] button to open the PLAY 1 page of the menu.

	Page name	Contents
1	GENERAL	Use this page to view media content, edit mark lists and playlists, and set timer events.
2	PLAY 1	Make playback settings.
3	PLAY 2	
4	PLAY 3	
5	PLAY 4	
6	REC 1	Make recording settings.
7	REC 2	
8	REC 3	
9	REC 4	
10	CD	This menu includes CD-specific operations. (This is only used when an external CD drive is connected.)
11	NETWORK 1	Make network settings.
12	NETWORK 2	
13	FTP CLIENT	Make FTP settings.
14	SFTP SERVER (SFTPd)	Make SFTP server (SFTPd) function settings.
15	SFTP CLIENT (SFTPc)	Make SFTP client (SFTPc) function settings.
16	SNTP	Make SNTP settings.
17	UTILITY	Make utility settings.
18	PREFERENCES	Make preference settings.
19	USER KEY ASSIGN	Assign functions to the USER buttons.
20	REMOTE	Make remote control settings.
21	PARALLEL INPUT ASSIGN	Assign functions to the PARALLEL input connectors.
22	PARALLEL OUTPUT ASSIGN	Assign functions to the PARALLEL output connectors.
23	MEDIA	Work with media.
24	SYSTEM 1	Make system settings.
25	SYSTEM 2	

The various menu items are as follows.

Menu item	Function	Page
GENERAL page		
BROWSE	View the content of connected media.	page 50
MARK LIST	Mark list editing	page 95
PLAYLIST EDIT	Playlist editing	page 60
TIMER EVENT LIST	Timer event list screen settings	page 86
TIMER EVENT	Timer event function setting	page 86
PLAY 1 page		
PLAY AREA	Playback area setting	page 36
PLAY MODE	Playback mode setting	page 37
REPEAT	Repeat playback function settings	page 42
AUTO CUE	Auto cue function settings	page 43
AUTO READY	Auto ready function setting	page 43
PLAY 2 page		
INCREMENTAL PLAY	Incremental playback function setting	page 44
MONO MIX	Mono playback function setting	page 44
DUCKING	Ducking function settings	page 45
EOM TRACK	EOM function settings	page 45
EOM MEDIA		
PLAY 3 page		
RESUME	Resume playback function setting	page 46
TIME SKIP	Time skip function setting	page 46
FADER START DELAY	Playback start timing setting	page 47
OUTPUT RATE	Audio output setting for external sampling frequency synchronization	page 47
CALL	Call function setting	page 47
PLAY 4 page		
FADE IN TIME	Fade in time setting	page 39
FADE OUT TIME	Fade out time setting	
KEY	Set the key control function.	page 41
PITCH	Set the pitch control function.	page 40
REC 1 page		
INPUT SELECT	Input source selection	page 66
REC SET LINK	Input channel link setting	page 67
INPUT LEVEL	Input volume setting	page 68
REC 2 page		
REC FORMAT	Recording file format setting	page 69
BACKUP/RELAY MEDIA	Backup and relay recording media settings	page 70
WAV SETTING	WAV file settings	page 70
MP3 BITRATE	MP3 file bit rate setting	page 70
FILE TYPE	Recording file type setting	page 70

Menu item	Function	Page
REC 3 page		
FILE NAME	Set the file name format	page 71
DITHER	Dither setting	page 72
SRC	Sampling rate converter setting	page 73
PAUSE MODE	Pause mode function setting	page 73
DIRECT REC	Direct record function setting	page 73
REC 4 page		
PRE REC	Pre-recording function setting	page 74
SYNC REC	Synchronized recording settings	page 74
AUTO TRACK	Automatic track incrementation function settings	page 75
AUTO MARK	Automatic mark function settings	page 77
REC MONITOR OUT	Set the REC MONITOR OUT function.	page 68
CD page (only when external CD drive connected)		
RIP TO MEMORY	Write from a CD to the selected media	page 84
NETWORK 1 page		
MAC ADDRESS	View the unit's MAC address	page 98
IP ADDRESS	View the current IP address	
DNS ADDRESS	View the IP address of the DNS server	
IP SETUP	Set the unit's IP address and related settings	page 98
DNS SETUP	Set the IP address of the DNS server	
NETWORK 2 page		
IP PASSWORD	Password setting	page 99
NICKNAME	Individual unit identification name setting	page 117
ADMIN PASSWORD	Administrator password setting	page 100
LINK LOSS DETECT	Telnet protocol connection monitoring function setting	page 100
FTP CLIENT page		
TARGET FTP SERVER	Various settings for FTP server connections	page 100
CLIENT MODE	FTP client mode setting	
TARGET FOLDER NAME	Set default folder for FTP server uploads and downloads	
ACCESS TEST	Test connection with FTP server	
AUTO UPLOAD	Automatic uploading to FTP server setting	
SFTP SERVER (SFTPd) page		
SFTPd: IMPORT KEY	Import SSH keys used by the SFTP server function	page 103
SFTPd: SHOW KEY INFO	View various information about SSH keys used by the SFTP server function	page 104
DELETE KEYS for SFTP SERVER	Delete SSH keys used by the SFTP server function	page 105
SFTP CLIENT (SFTPc) page		
SFTPc: IMPORT KEY	Import SSH keys used by the SFTP client function	page 105
SFTPc: SHOW KEY INFO	View various information about SSH keys used by the SFTP client function	page 106
DELETE KEYS for SFTP CLIENT	Delete SSH keys used by the SFTP client function	page 106
SNTP page		
SNTP STATUS	View the current SNTP status	page 116
SNTP UPDATE	Set the SNTP function update mode	
NTP SERVER	NTP server name setting	page 117
TIMEZONE	Set the time offset from Coordinated Universal Time (UTC)	
DAYLIGHT SAVING	Set the daylight savings time function	
UTILITY page		
LINK PLAY	Link playback settings	page 48
POWER ON ACTION	Power on action function setting	page 118
OUTPUT LEVEL	Analog output attenuation function setting	page 118
REMOTE POWER CONTROL	Remote power control function setting	page 118
TIME CORRECTION	Time correction function setting	page 119
PREFERENCES page		
REFERENCE LEVEL	Reference level setting	page 119
BRIGHTNESS	Display and indicator brightness setting	page 27
LCD CONTRAST	Display contrast setting	page 27
KEYBOARD	Keyboard type setting	page 120
PEAK HOLD TIME	Meter peak hold time setting	page 119
USER KEY ASSIGN page		
USER KEY 1	Assign functions to USER buttons	page 32
USER KEY 2		
USER KEY 3		
USER KEY 4		
REMOTE page		
RS-232C	RS-232C settings	page 126
RC-3F	RC-3F mode setting	page 126
RECORD TALLY	RECORD Tally setting	page 126
PARALLEL INPUT ASSIGN page		
INPUT AUX 1	Assign functions to the PARALLEL input connectors	page 33
INPUT AUX 2		
INPUT AUX 3		
INPUT AUX 4		
INPUT AUX 5		

Menu item	Function	Page
PARALLEL OUTPUT ASSIGN page		
OUTPUT AUX 1	Assign functions to the PARALLEL output connectors	page 34
OUTPUT AUX 2		
OUTPUT AUX 3		
OUTPUT AUX 4		
OUTPUT AUX 5		
MEDIA page		
MEDIA FORMAT	Media formatting settings	page 30
MEDIA INFORMATION	View media information	page 122
MEDIA REBUILD	Rebuild the media	page 122
SYSTEM 1 page		
CLOCK ADJUST	Date and time settings	page 27
FACTORY PRESET	Restore factory default settings	page 122
SAVE USER PRESET	Write user settings	page 123
LOAD USER PRESET	Load user settings	page 123
SYSTEM BACKUP	Import/export system backup data	page 123
SYSTEM 2 page		
AUTO POWER SAVE	Energy saving mode setting	page 28
VERSION	View the firmware version	page 124
UPDATE	Update the firmware	page 124

NOTE

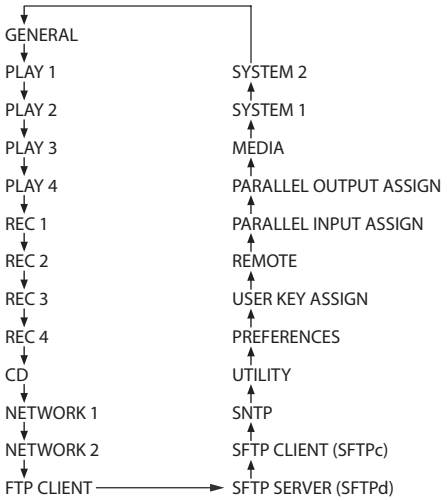
The settings for all menu items are retained even when the unit is turned off.

Basic Menu Screen operations

Use the following operations to work with the pages of the Menu Screen.

Changing menu items by page:

Press the MENU [BROWSE] button repeatedly until the desired menu page opens.
The pages will open in the following order.



NOTE

- Press the MENU [BROWSE] button while pressing and holding the SHIFT button to open menu pages in the opposite direction.
- Turn the MULTI JOG dial to move up and down on the menu screen one item at a time from the PLAY 1 page PLAY AREA item to the SYSTEM 2 page UPDATE item.

Selecting items (moving vertically on a page):

Turn the MULTI JOG dial.

Confirming a selected item:

Press the MULTI JOG dial.

Opening a submenu from a page:

Press the MULTI JOG dial.

Selecting an item in a submenu:

Press the MULTI JOG dial or ◄◄ [EDIT]/ ►► [FADE] button.

Going back one step in a menu:

Press the MENU [BROWSE] button.

Returning directly to the Home Screen from a menu screen:

Press the HOME [INFO] button.

Menu operation procedures

In this example, we explain how to set the auto mark function.

1. Press the MENU [BROWSE] button to open the GENERAL page.



2. Press the MENU [BROWSE] button to open other menu pages.



REC 4 page open

3. Turn the MULTI JOG dial to select the item to set.



AUTO MARK selected

4. Press the MULTI JOG dial to open the settings screen.



AUTO MARK screen open

5. Turn the MULTI JOG dial to change the setting.
6. To set another item on the same screen, press the MULTI JOG dial to move the cursor to the next setting.
   When you can use the ◄◄ [EDIT]/ ►► [FADE] buttons to move the cursor, "<< >>: MOVE Cursor" will appear at the top right of the screen.
7. Repeat steps **5** to **6** as necessary to set other items.
8. Press the MULTI JOG dial to confirm the setting changes and return to the Menu Screen.
   Press the HOME [INFO] button to return to the Home Screen.

NOTE

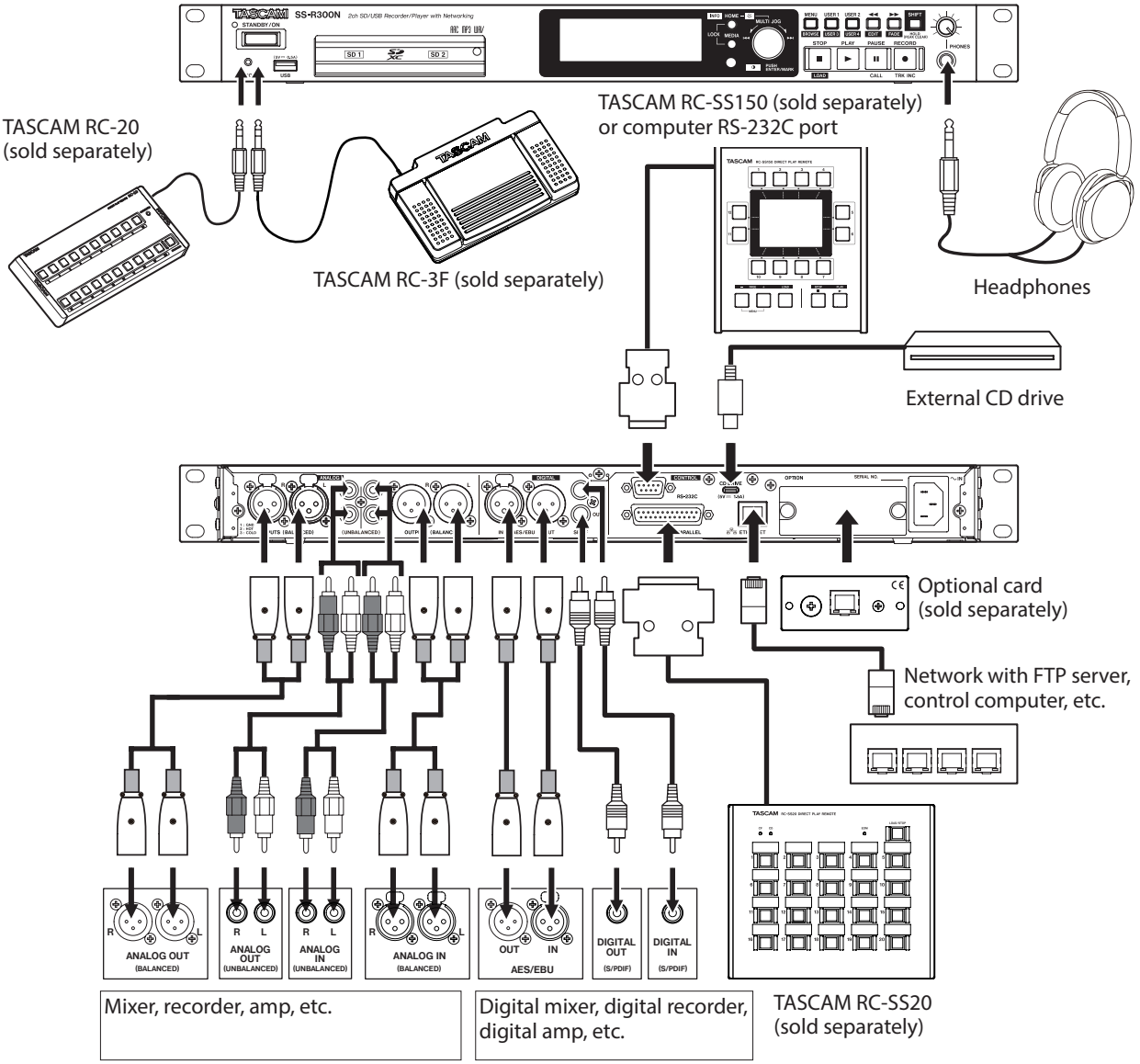
- Press the MENU [BROWSE] button to cancel the menu operation and return to the Menu Screen.
- In some cases, in step **8**, pressing the MULTI JOG dial will return to the Home Screen immediately.
- Menu items that cannot be changed are shown inside brackets [ ], and cannot be selected using the MULTI JOG dial.

Making connections

This is an example of SS-R300N connections.

Precautions before making connections

- Carefully read the operation manuals of the devices to be connected and then connect them correctly.
- Before making connections, turn this unit and all equipment to be connected off (standby).
- Install all connected devices, including this unit, so that they are powered from the same line. When using a power strip or similar device, be sure to use one that has high current capacity (thick cable) in order to minimize fluctuations in power voltage.



Examples of connections to a SS-R300N

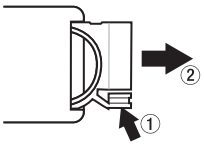
Preparing the remote control

Installing the coin battery

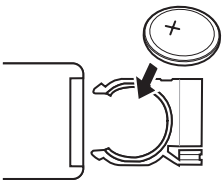
NOTE

When this unit is purchased a new, a lithium coin battery (CR2025) is preinstalled in the remote control. To use the remote control, remove the isolation sheet inserted in the battery holder.

1. Remove the battery holder from the remote control.
While pressing ①, pull it in the ② direction.



2. Being careful to maintain the correct ⊕ / ⊖ orientation, install the lithium coin battery (CR2025) into the battery holder.



3. Insert the battery holder into the remote control.

When to replace the battery

Replace the battery with a new one if the distance from the main unit that the remote can be used decreases or if the unit stops responding to the remote buttons.
Use a lithium coin battery (CR2025).

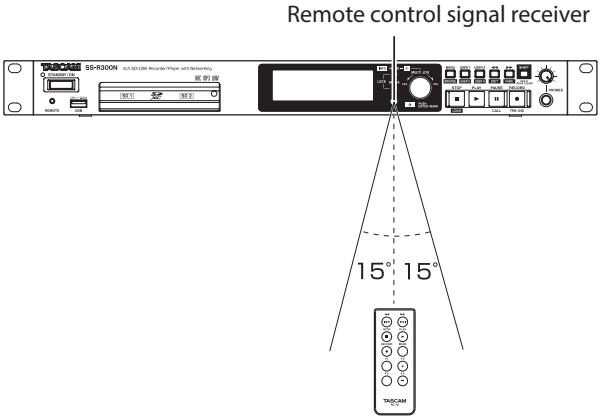
Battery precautions

The accidental swallowing of lithium coin batteries by small children is extremely dangerous. Keep these batteries and this remote control in places where small children cannot reach them. Should a child swallow a battery, consult with a doctor immediately.
Misuse of batteries could cause them to leak or rupture, for example. Carefully read and follow the caution labels on batteries. (See "V Precautions concerning batteries" on page 3.)

- Install lithium coin batteries with the correct orientation.
- Do not charge lithium coin batteries.
- Do not heat or disassemble lithium coin batteries. Do not put them in fire or water.
- Do not transport or store lithium coin batteries with small metal objects. Doing so could cause the batteries to short and leak or rupture, for example.
- When storing and disposing of them, isolate their terminals with tape, for example, so that they do not touch other batteries or metal objects.
- Dispose of used batteries according to the instructions on them and the requirements set by your local government.

Using the wireless remote control

See "Wireless remote control (TASCAM RC-10)" on page 16 for the button functions.
When using the remote control, point it toward the receiver on the unit and use it within the range shown below.



Remote control operation range

Front: 7 m
Left/right angle: +/–15°

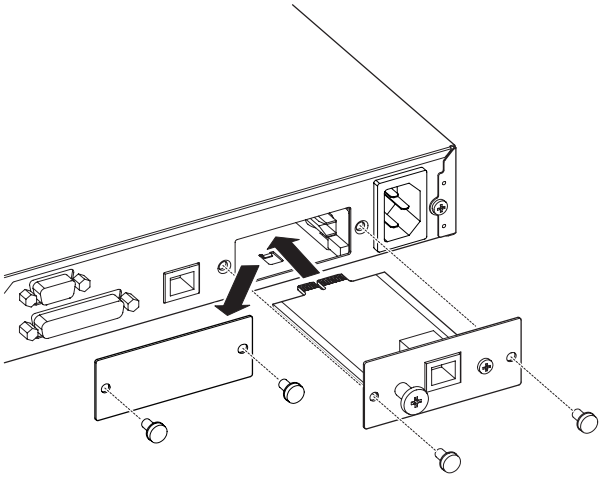
ATTENTION

- The range will vary according to the angle.
- Operation might not be possible if there are obstacles.
- Remove the battery if not using the remote control for a long time (a month or more).
- If battery fluid should leak, wipe away any fluid inside the case thoroughly and install a new battery.
- When using other devices that can be controlled by infrared rays, operation of this remote control could cause those devices to function improperly.

Installing a Dante interface card (sold separately)

ATTENTION

Before installing or removing a Dante interface card (sold separately), disconnect the power cord from the outlet or the unit.



1. Remove the two screws from the plain panel and remove the panel itself.
2. Insert the Dante interface card into the card slot. Align the edges of the Dante interface card with the white guides inside the slot and insert it securely. Push the Dante interface card in until its backplate reaches the back panel of the unit, leaving no gap, and clicks into place. Do not force the card into the slot. If you cannot insert the card properly, remove it once and try reinserting it.
3. Use the two removed screws to secure the Dante interface card in place.
4. Turn this unit on.
   When the unit recognizes the Dante interface card, "IF-DA2 (Dante)" will become available as an input source setting on the INPUT SELECT screen. (See "Selecting the input source" on page 66.)
   If "IF-DA2 (Dante)" does not appear as an option on the INPUT SELECT screen, the Dante interface card might not be inserted correctly or the screws might not be tightened securely. Insert the Dante interface card securely into the unit again.

Turning the unit on and off

Press the STANDBY/ON button on the front of the unit to turn it on.



Startup screen



Home Screen

After the unit starts and the startup screen is shown, the Home Screen will open.
If no current medium is loaded or there are no audio files in the current folder, the track number and time will not be shown on the Home Screen.

Turning the unit off:

1. Press and hold the STANDBY/ON button to open a pop-up message.



2. When the confirmation pop-up is open, press and hold the MULTI JOG dial to turn the unit off.

ATTENTION

- Do not disconnect the power cord when the unit is operating (including recording, playing back, or writing data to an SD card or USB flash drive). Doing so could cause proper recording to fail, recorded data to be lost, and sudden loud noises from monitoring equipment, which might damage the equipment, harm hearing or cause other trouble.
- When the unit is started up for the first time (or when the built-in clock is reset after being left unused without power for a long time), the CLOCK ADJUST screen appears before the start-up screen to allow the date and time of the built-in clock to be set. (See "Setting the built-in clock date and time" on page 27.)

NOTE

- Press the MENU [BROWSE] button briefly to not turn the unit off.
- If the power supply source is turned off when the unit power is on, the unit will start up with power on the next time that the power supply source is turned on.

Setting the built-in clock date and time

Using its internal clock, this unit includes the date and time when a file is recorded.

1. Select the CLOCK ADJUST item on the SYSTEM 1 page to open the CLOCK ADJUST screen. (See "Menu operation procedures" on page 23.)



2. Press the MULTI JOG dial to enter setting mode and show the cursor on the item to be changed.
   Use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor.



3. Turn the MULTI JOG dial to change a value, and press the MULTI JOG dial to confirm it and move the cursor to the next item.
4. The cursor will disappear will complete after you change the year, month, day, hour and minute in order.

NOTE

When making a setting, you can press the MENU [BROWSE] button to cancel the changes and return to the Menu Screen.

5. Press the MENU [BROWSE] button to confirm the setting and return to the Menu Screen.

Adjusting the display

You can adjust the contrast and brightness of the display as well as the brightness of the PLAY, PAUSE [CALL] and RECORD [TRK INC] buttons as necessary.

Adjusting the display and indicator brightness

Adjusting with controls

While pressing the HOME [INFO] button, turn the MULTI JOG dial to adjust the brightness of the display and indicators.



Adjusting with the menu setting

1. Select BRIGHTNESS on the PREFERENCES page to open the BRIGHTNESS screen. (See "Menu operation procedures" on page 23.)



2. Use LCD BRIGHTNESS to adjust the brightness of the display.

   Options: 0 – 10 (default: 5)

3. Use LED BRIGHTNESS to adjust the brightness of the indicators.

   Options: 0 – 10 (default: 5)

4. Confirm the setting and return to the Menu Screen.

Adjusting the display contrast

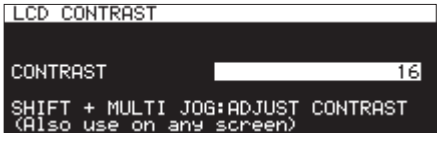
Adjusting with controls

While pressing the SHIFT button, turn the MULTI JOG dial to adjust the display contrast.



Adjusting with the menu setting

1. Select LCD CONTRAST on the PREFERENCES page to open the LCD CONTRAST screen. (See "Menu operation procedures" on page 23.)



2. Adjust the display contrast.

   Options: 0 – 50 (default: 15)

3. Confirm the setting and return to the Menu Screen.

Setting the energy saving mode (AUTO POWER SAVE)

This unit has an AUTO POWER SAVE function that automatically puts it into standby mode if no operation is conducted for a set amount of time (complying with the European ESPR/ErP).

1. Select AUTO POWER SAVE on the SYSTEM 2 page to open the AUTO POWER SAVE screen. (See "Menu operation procedures" on page 23.)



2. Set the amount of time until standby mode is activated.

   Options: OFF, 10 min – 60 min (in 10 min steps)

	Default value
In Europe	20 min
Outside Europe	OFF

3. Confirm the setting and return to the Menu Screen.

ATTENTION

When using network functions, including NTP and FTP server functions, automatically switching to standby mode could affect normal operation. In this case, set AUTO POWER SAVE to "OFF".

NOTE

- Setting this to "OFF" disables the energy conservation function, preventing it from reducing energy consumption.
- When set to "OFF", the unit will not automatically switch to standby mode.
- The unit will automatically switch to standby mode when the set time has elapsed with all of the following conditions fulfilled.
  - All media is in a stopped state or no media is loaded
  - No operations or settings are being made from the front panel, through the serial or parallel ports or using a keyboard, for example (sense requests from the serial port are considered operations)
  - The TIMER EVENT setting is "OFF"
- Press the STANDBY/ON button to resume from standby mode.

Inserting and removing SD cards

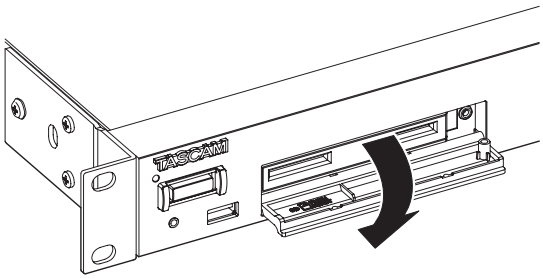
Inserting SD cards

Insert an SD card into an SD card slot on the front of the unit to enable playback and recording by this unit.

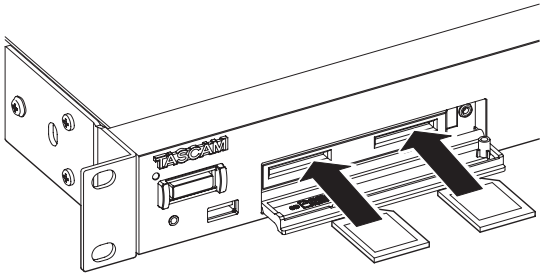
NOTE

SD cards can be inserted whether or not the unit is on or off (in standby).

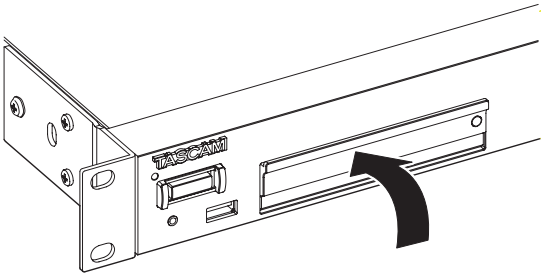
1. Pull the SD card slot cover forward to open it.



2. Inserted SD cards with the correct orientation.
   The label should be up and the connector should be inserted toward the back.



3. Close the card slot cover.



NOTE

If the SD card slot cover cannot be closed, remove the SD card and insert it again.

Removing SD cards

Turn the unit off or stop operation before removing an SD card.

ATTENTION

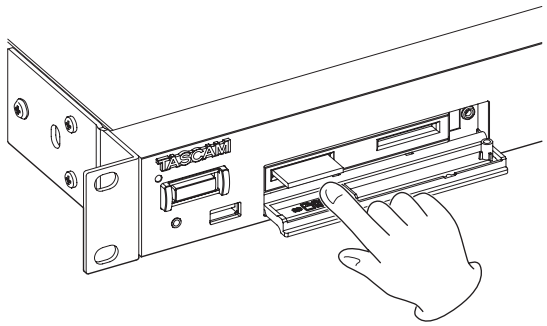
Never remove an SD card from the unit when it is being accessed, such as in the cases listed below.

Doing so could cause proper recording to fail, recorded data to be lost, and sudden loud noises from monitoring equipment, which might damage the equipment, harm hearing or cause other trouble.

Moreover, removing a card during "FIRMWARE UPDATE" execution could result in the unit becoming unable to start up or operate properly.

- When recording
- During playback
- During SYSTEM BACKUP "IMPORT" or "EXPORT" execution
- During "FIRMWARE UPDATE" execution (See "Firmware update procedures (USB flash drives and SD cards only)" on page 124.)
- When the BROWSE screen is open and the SD card is being accessed

1. Pull the SD card slot cover forward to open it.
2. Press the SD card in gently to make it to come forward.

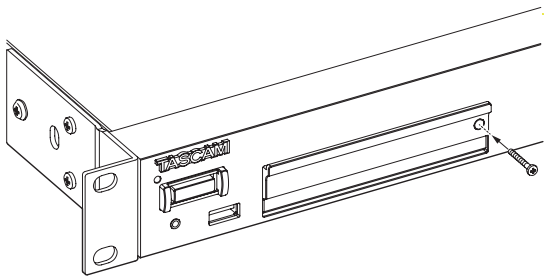


3. Pull the SD card out by hand.

Using the security screw

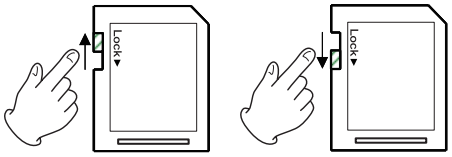
You can use the included security screw to lock the card slot cover switch.

Use a Phillips (+) driver to install/remove the security screw.



SD card write-protection switches

SD cards have write-protection switches that prevent writing new data to them.



If you slide the protect switch to the LOCK position, file recording and editing will not be possible. Unlock cards to enable changing their data, including recording and erasing.

Connecting and disconnecting USB flash drives

USB Flash drives can be connected whether or not the unit is on or off (in standby).

Turn the unit off or stop operation before disconnecting a USB flash drive.

ATTENTION

Never disconnect a USB flash drive when it is being accessed, such as in the cases listed below.

Doing so could cause proper recording to fail, recorded data to be lost, and sudden loud noises from monitoring equipment, which might damage the equipment, harm hearing or cause other trouble.

Moreover, removing a card during "FIRMWARE UPDATE" execution could result in the unit becoming unable to start up or operate properly.

- When recording
- During playback
- During "SYSTEM BACKUP IMPORT" or "EXPORT" execution
- During "FIRMWARE UPDATE" execution (See "Firmware update procedures (USB flash drives and SD cards only)" on page 124.)
- When the BROWSE screen is open and the USB flash drive is being accessed

Loading and ejecting CDs

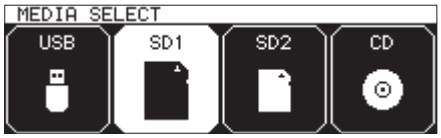
Check the operation manual of the external CD drive being used for how to load, eject and force eject discs.

Selecting media

Before conducting other operations, select the medium to use (USB, SD1, SD2 or CD).

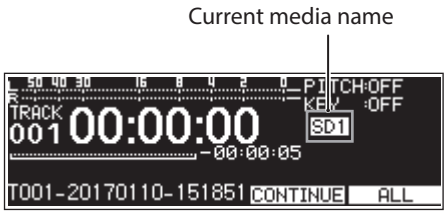
Follow the procedures below to select the medium.

1. Press the MEDIA button to open the MEDIA SELECT screen.



2. Press the MEDIA button to select the medium to use, and press the MULTI JOG dial to confirm it.
3. The name of the currently selected medium appears in the current medium area of the Home Screen.

Current media name



Icon	Meaning
USB	USB flash drive selected
SD1	SD card 1 selected
SD2	SD card 2 selected
CD	No media loaded or media invalid
CD	Finalized CD* (with TOC data)
CDR	Finalized CD-R
CDRW	Finalized CD-RW

* This will also be used with commercial audio CDs.

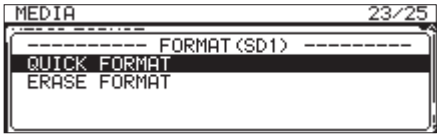
Preparing SD cards and USB flash drives for use

In order to use an SD card or USB flash drive with this unit, you must use this unit to format it first.

ATTENTION

- Formatting erases all the data on the SD card or USB flash drive.
- Always use this unit to format media to be used with it. Operation of this unit might be affected when using an SD card or USB flash drive that has been formatted by a computer or other device.
- This cannot be selected when the current medium is "CD".

1. Open the MEDIA SELECT screen, and select the medium to format. (See "Selecting media" on page 30.)
2. Select the MEDIA FORMAT item on the MEDIA page to open a format method option pop-up. (See "Menu operation procedures" on page 23.)



QUICK FORMAT: Format only system data on the medium.
FULL FORMAT: Completely format the medium.

NOTE

The ERASE FORMAT item only appears when the current medium is "SD1" or "SD2".

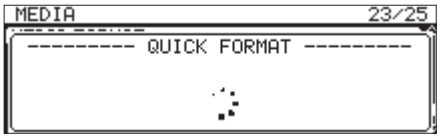
3. Select the format method, and press the MULTI JOG dial.
A confirmation pop-up message will appear.



NOTE

Press the MENU [BROWSE] button to cancel formatting.

4. Press and hold the MULTI JOG dial to start formatting.
The following pop-up message will appear during formatting.



When QUICK FORMAT selected

5. When formatting completes, the pop-up disappears and the Home Screen opens.

NOTE

The writing speeds to SD cards and other storage media that use flash memory tend to decrease after writing occurs repeatedly.

If the writing speed decreases, this could have a negative impact on recording.

Using the "ERASE FORMAT" function of this unit should restore the writing speed of an SD card.*

For this reason, we recommend using the "ERASE FORMAT" function at the following times.

- Whenever the card has been written to until it became completely full
- On a regular schedule (about once per month)
- Before starting important recordings

* Writing speed might not be restored depending on the SD card condition (including malfunction and age).

Setting the lock function

You can set the lock function to prevent this unit from being controlled from its front panel or an external device.

1. Press the MEDIA button while pressing the HOME [INFO] button on the front of the unit to open the LOCK SETUP screen.



2. Select the lock function to set, and open the lock function setting screen. (See "Menu operation procedures" on page 23.)



Lock function setting screen when FRONT PANEL item selected

FRONT PANEL

This locks the controls on the front of the unit.

Options: UNLOCK (default), LOCK

232C/PARA/NETWORK

This locks external operation from the RS-232C and PARALLEL connectors as well as remote control using file transfer by FTP client applications, Telnet and OSC (Open Sound Control).

Options: UNLOCK (default), LOCK

REMOTE/KEYBOARD

This locks operation using a remote control connected to the REMOTE jack, a wireless remote control or a USB keyboard or numeric keypad.

Options: UNLOCK (default), LOCK

NOTE

The following operations are possible even when set to "LOCK".

- Showing the Home Screen
- Changing settings on the LOCK SETUP screen
- Turning the power off with the STANDBY/ON button
- Adjusting the brightness of the display and various indicators

3. Confirm the setting and return to the Menu Screen.

NOTE

Operating an item that is locked will cause a corresponding "Locked" pop-up to appear.

Opening the INFORMATION screen

While pressing the SHIFT button, press the HOME [INFO] button to show the operation status of the unit on the display.



Contents

CLOCK

Sampling frequency currently used for operation

INPUT

Currently set input

FILE

Currently set file type, quantization bit depth and file mode

Recording date

FOLDER

Current folder now selected

NOTE

If "DIGITAL XLR", "DIGITAL COAXIAL" or "IF-DA2 (Dante)" (only when IF-DA2 card installed) is selected, recording cannot be started from recording standby under the following conditions.

- If this unit is not digitally locked to the input source, "UNLOCK" will appear at the end of the input source name.
- If the input source is not audio, "Not Audio" will appear at the end of the input source name.
- If the sampling frequency set with the REC FORMAT item on the REC 1 page differs from the input source, "FS UNMATCH" will appear at the end of the input source name. If the sampling rate converter is active, however, recording will be possible even if the sampling frequency is different. (See "Using the sampling rate converter" on page 73.)

Assigning functions to the USER buttons

Functions can be assigned to the USER 1–4 buttons.

1. Select the USER KEY item on the USER KEY ASSIGN page and open the USER KEY ASSIGN Screen. (See "Menu operation procedures" on page 23.)



USER KEY 1 selected

2. Assign the desired functions to the USER buttons.
The following functions can be assigned.

Option	Function	Page
---	No function selected	---
AUTO CUE	Auto cue function	page 43
AUTO READY	Auto ready function	page 43
JOG	Jog playback function	page 38
CALL	Call function	page 47
PITCH	Pitch control function	page 40
KEY	Key control function	page 41
A-B	A-B Repeat playback function	page 42
REPEAT	Repeat playback function	page 42
INC PLAY	Incremental playback function	page 44
SYNC REC	Synchronized recording function	page 74
AUTO TRACK	Automatic track incrementation function	page 75
SRC	Sampling rate converter function	page 73
MARK LIST	Open the Mark List Screen	page 95

3. Confirm the setting and return to the Menu Screen.

The factory default settings are as follows.

Button	Assigned function
USER 1	JOG
USER 2	CALL
USER 3 (SHIFT+USER 1)	AUTO CUE
USER 4 (SHIFT+USER 2)	AUTO READY

Assigning functions to PARALLEL input connectors

Functions can be assigned to the PARALLEL input connectors.

1. Select the INPUT AUX item on the PARALLEL INPUT ASSIGN page, and open the INPUT AUX ASSIGN Screen. (See "Menu operation procedures" on page 23.)



INPUT AUX 1 selected

2. Assign the desired functions to the PARALLEL input connectors. (See "PARALLEL connector overview" on page 15.)
The following functions can be assigned.

Option	Function	Page
---	No function selected	---
AUTO CUE	Auto cue function	page 43
AUTO READY	Auto ready function	page 43
JOG	Jog playback function	page 38
CALL	Call function	page 47
PITCH	Pitch control function	page 40
KEY	Key control function	page 41
A-B	A-B Repeat playback function	page 42
REPEAT	Repeat playback function	page 42
INC PLAY	Incremental playback function	page 44
SYNC REC	Synchronized recording function	page 74
AUTO TRACK	Automatic track incrementation function	page 75
SRC	Sampling rate converter function	page 73
FADE	Fade-in/out playback function	page 39
FADER START	Fader playback function	*
FADER REC	Fader recording function	**
PLAY/PAUSE	Resume/pause playback function	***
REWIND	Playback search backward function	page 12
F.FWD	Playback search forward function	page 13
MARK SKIP –	Move (backward) to mark	page 13
MARK SKIP +	Move (forward) to mark	
MARK	Add mark function	page 94
TIME CORRECTION	Time correction trigger input	page 119

* Activate playback from a playback paused state while pressing and holding the button (low signal) on the control device. Release the button (high signal) on the control device. to pause playback.

** Activate recording from a stopped or recording paused state while pressing and holding the button (low signal) on the control device. Release the button (high signal) on the control device to stop recording.

*** Switch between pausing and resuming playback.

3. Confirm the setting and return to the Menu Screen.

NOTE

- Multiple FADER REC and FADER START settings cannot be made for INPUT AUX.
- If FADER REC is set, low signal input will start recording and high signal input will stop recording.
- If FADER START is set, low signal input will start playback and high signal input will pause playback.
- Any setting other than the above will operate with low signal input of 50 msec or longer. (See "PARALLEL connector overview" on page 15.)

The factory default settings are as follows.

Pin No.	Input connector	Assigned function
Pin 8	INPUT AUX 1	FADER START
Pin 16	INPUT AUX 2	CALL
Pin 17	INPUT AUX 3	AUTO CUE
Pin 18	INPUT AUX 4	AUTO READY
Pin 19	INPUT AUX 5	PITCH

Assigning functions to PARALLEL output connectors

Functions can be assigned to the PARALLEL output connectors.

1. Select the OUTPUT AUX item on the PARALLEL OUTPUT ASSIGN page, and open the OUTPUT AUX ASSIGN Screen. (See "Menu operation procedures" on page 23.)



OUTPUT AUX 1 selected

2. Assign the desired functions to the PARALLEL output connectors. (See "PARALLEL connector overview" on page 15.)
   The following functions can be assigned.

Option	Meaning
---	No function selected
FLASH Tally	Show flash load status
PAUSE Tally	Show playback standby status
RECORD Tally	Show recording status
STOP Tally	Show stopped status
PLAY Tally	Show playback status
AUTO CUE Tally	Show auto cue setting
AUTO READY Tally	Show auto ready setting
JOG Tally	Show jog setting
PITCH Tally	Show pitch control setting
KEY Tally	Show key control setting
A-B Tally	Show A-B repeat setting
REPEAT Tally	Show repeat setting
INC PLAY Tally	Show incremental playback setting
SYNC REC Tally	Show synchronized recording setting
AUTO TRACK Tally	Show auto track setting
SRC Tally	Show SRC setting
FADE IN Tally	Show fade in status
FADE OUT Tally	Show fade out status
FADE IN/OUT Tally	Show fade in and fade out status

3. Confirm the setting and return to the Menu Screen.

The factory default settings are as follows.

Pin No.	Output connector	Assigned function
Pin 9	OUTPUT AUX 1	FLASH Tally
Pin 10	OUTPUT AUX 2	PAUSE Tally
Pin 11	OUTPUT AUX 3	RECORD Tally
Pin 12	OUTPUT AUX 4	STOP Tally
Pin 13	OUTPUT AUX 5	PLAY Tally

This explanation assumes that the unit is on, and that the current medium is set appropriately. (See "Selecting media" on page 30.)

Files that can be played back

This unit can play back files in the following formats.

USB flash drives and SD cards

- MP3: 44.1/48kHz, 64/128/192/256/320kbps
- WAV/BWF: 44.1/48/96kHz, 16/24-bit
- AAC: 44.1/48kHz

Files that can be played back	File formats
AAC	.m4a, .M4A
MP3	.mp3, .MP3
WAV	.wav, .WAV

NOTE

Files must be at least 1.6 seconds to be played back.

Audio CDs (when using an external CD drive sold separately)

Commercial audio CDs, CD-R and CD-RW discs that have been created in the audio CD format

ATTENTION

MP3 files that use VBR compression

Due to file format limitations, accurate location detection is not possible in VBR files. For this reason, when using functions that require points to be set in the middle of a track, including time skipping, call and A-B repeat playback (A point setting), slight differences might occur between the set point and the point where playback begins.

TIP

Files of the above formats can be played back by this unit even if it was not used to record them. For example, you can use a computer or another audio device to write files that meet the above specifications to an SD card, USB flash drive or CD, and then play those files on this unit. This allows you to efficiently prepare materials for playback on this unit.

Tracks and files

Audio data are recorded as "audio files" on media.

When the FILE TYPE item on the FILE TYPE screen is set to "STEREO", stereo files will be handled as single tracks. When set to "MONO (MIX)", mono files will be handled as single tracks. When set to "MONO (2ch)", pairs of mono files will be handled as single tracks. (See "Setting the recording file format" on page 69.)

For this reason, when explaining playback and recording in this document, we call audio files "tracks" (and sometimes "songs"). When explaining media management and related topics, we call them "files". Please understand that they are the same thing.

Playback area

The range of tracks that can be selected for playback on the Home Screen is called the "playback area".

The play area can be set for USB flash drives and SD cards that contain MP3, WAV and/or AAC files.

Limiting the play area makes selection of playback tracks easier when you have numerous recorded files on the SD card, USB flash drive or CD.

Setting the playback area

Use the PLAY AREA item on the PLAY 1 page to set the playback area.

1. Select the PLAY AREA item on the PLAY 1 page to open the PLAY AREA screen. (See "Menu operation procedures" on page 23.)



2. Set the desired playback area.

Option	Meaning
ALL (default)	Play all the files on the medium.
FOLDER	Play all the files in the folder that contains the currently selected file.
PLAYLIST	Play all the files that have been assigned to the playlist. If there is no playlist defined, a "No PLAYLIST" pop-up message appears.

NOTE

When using an audio CD, the "ALL" option is always used.

3. Confirm the setting and return to the Menu Screen.

ATTENTION

The playback sampling rate used by this unit depends on the files being played back (44.1 kHz during CD playback).

Use "OUTPUT RATE" to set the output sampling rate. (See "Setting the sampling rate of output audio" on page 47.)

NOTE

- The current playback area setting appears at the lower right of the Home Screen.



Playback area

- Seamless playback is possible using the CONTINUE mode only during continuous playback of WAV files recorded continuously in the same format. Seamless playback is not possible when specifying files to play or using PLAYLIST playback.

Selecting the current folder or current playlist

When the playback area is set to "FOLDER" or "PLAYLIST", the Home Screen is open and the unit is stopped, you can use the ◄◄ [EDIT] and ►► [FADE] buttons on the unit to select a folder or playlist as the playback area.

This folder or playlist is called the "current folder" or "current playlist".

NOTE

- You can also select the current folder or current playlist on the BROWSE screen. (See "5 - Working with Folders and Files (BROWSE screen)" on page 50.)
- Up to 999 tracks can be played back by this unit if the formats of the audio files are MP3, WAV or AAC.

  If a medium with more than 999 tracks is loaded in this unit, 999 tracks selected according to the unit's system rules can be played. Any other tracks will not be playable or editable.
- Up to 99 tracks can be played back by this unit if the format is audio CD.

Setting the play mode

The mode used to play tracks in the playback area can be set.

1. Select PLAY MODE on the PLAY 1 page to open the MODE AREA screen. (See "Menu operation procedures" on page 23.)



2. Set the desired play mode.

Option	Meaning
CONTINUE (default)	Play tracks in the playback area in track number order.
SINGLE	Play the selected track, and stop after playback.
PROGRAM	Play in program order set in advance. (See "Program playback" on page 39.)
RANDOM	Play all tracks in the playback area in random order regardless of track number. Stop playback after all tracks have been played.

3. Confirm the setting and return to the Menu Screen.

NOTE

- Unless otherwise specified, explanations in this manual assume that the playback mode is set to "CONTINUE".
- The current playback mode appears in the lower right of the Home Screen.

Basic playback operations

This section explains basic playback operations, including starting, stopping and pausing.

This explanation assumes that you have already made necessary connections, turned the unit on, loaded a card or drive that contains audio files, selected the current medium, and opened the Home Screen on the display.

Playing tracks

Press the PLAY button on the unit or the remote control to start playback.

If the medium does not contain any audio files that the unit can play, the Home Screen will appear as shown below.



Stopping playback:

Press the STOP button.

Pausing playback:

Press the PAUSE [CALL] button.

Selecting tracks for playback

This section explains how to select a track when there are multiple tracks available for playback. The two ways to select tracks are moving (skipping) backward/forward by track number and specifying track numbers directly.

Skipping to earlier and later tracks

Turn the MULTI JOG dial (or use the remote control ◄◄ [I◄◄] and ►► [►►I] buttons) to skip to earlier and later tracks.

- During track playback, turn the MULTI JOG dial counterclockwise (or press the remote control ◄◄ [I◄◄] button) to return to the track beginning. When already at the beginning of a track, turn the MULTI JOG dial counterclockwise (or press the remote control ◄◄ [I◄◄] button) to skip to the beginning of the previous track.
- When at the beginning or middle of a track, turn the MULTI JOG dial clockwise (or press the remote control ►► [►►I] button) to skip to the beginning of the next track.

After selecting a track, press the PLAY button (or remote control PLAY button) to start playing it back. Press the PAUSE [CALL] button to pause playback at the beginning of the selected track.

NOTE

- Only tracks in the current playback area can be played back.
- The track number, file name and other file information for the currently playing file appear on the display.
- Turn the MULTI JOG dial as necessary to move between tracks.

Selecting tracks directly

On the BROWSE screen, turn the MULTI JOG dial (or use the remote control ◄◄ [I◄◄] and ►► [►►I] buttons) to select the track you want to play, and press the PLAY button (or remote control PLAY button) to start playback.

Searching backward and forward

You can search backward and forward within a track while listening to it.

1. Play or pause the desired track.
2. Press and hold the ◄◄ [EDIT]/ ►► [FADE] button on the unit (or remote control ◄◄ [I◄◄]/►► [►►I] button).
   Searching backward/forward will start.
3. To stop searching, release the button you are pressing.
   The state (playing or paused) before searching started will resume.

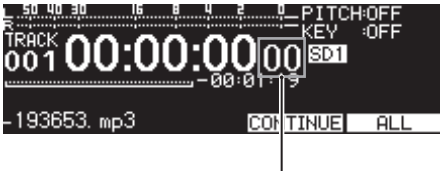
NOTE

- If the end of a track is reached when searching forward, searching will continue from the beginning of the next track.
- If the end of the last track is reached when searching forward, playback will pause.
- If the beginning of a track is reached when searching backward, searching will continue from the end of the track before it.
- If the beginning of the first track is reached when searching backward, playback will pause.

Jog playback

You can put the unit into jog playback mode, and use the MULTI JOG dial to search in 10msec increments.

1. When the Home Screen is open, press a USER button with "JOG" assigned to it when playing back, in playback standby or stopped to activate jog playback mode.
   The PLAY and PAUSE [CALL] buttons on the unit will blink, and the track elapsed time will be shown with 10msec increments on the Home Screen in TRACK display mode.



2. Turn the MULTI JOG dial to search.
3. To end jog playback mode, press the STOP, PLAY or PAUSE [CALL] button to use its function (stop, playback from or pause at the search position).

NOTE

Jog playback is not possible with AAC files.

Program playback

By setting a program in advance, you can play the desired tracks in the desired order. Up to 99 tracks can be assigned to the program.

Setting the program

Follow the procedures below to set the program.

1. When stopped, set the playback mode to "PROGRAM". (See "Setting the play mode" on page 37.)
2. Turn the MULTI JOG dial to select a track number, and press the MULTI JOG dial to assign it to the program.
   This assigns the track to the program.
3. Repeat step **2** to assign desired tracks to the program in order.
   The program number and total time appear on the display.

NOTE

- The same track can be assigned to the program multiple times.
- While pressing the SHIFT button, press the ◄◄ [EDIT] button to remove the last assigned track from the program.
- If you try to assign more than 99 tracks to the program, a "PROGRAM FULL" pop-up will appear. Up to 99 tracks can be assigned to the program.
- If the total time of the programmed tracks exceeds 99:59:59, "- -:- -:- -" appears on the display.

4. Press the PLAY button to start program playback.

NOTE

- If no tracks have been assigned to the program when the playback mode is set to "PROGRAM", a "There is no entry." pop-up will appear and playback will not be possible.
- When the playback mode is changed, all program data will be cleared.
- When stopped, pressing the STOP button will clear all program data.
- Program data will be cleared when the unit is turned off.

Fade-in and fade-out playback

- Press the ►► [FADE] button while pressing the SHIFT button when in playback standby to start fade-in playback.

NOTE

If the remaining time from the playback standby position to the end of the track is less than the fade-in time setting, the set volume will be applied when the track ends. (This does not affect the next track.)

- Press the ►► [FADE] button while pressing the SHIFT button when playing back to start fade-out playback and pause playback after the specified time has elapsed.

NOTE

If the remaining time from the playback position to the end of the track is less than the fade-out time setting, playback will pause at the track end.

Fade in time setting

1. Select FADE IN TIME on the PLAY 4 page, and open the FADE IN TIME Screen.



2. Select the fade in time.
   Options: 0.5 sec – 30.0 sec
   (in 0.5sec steps, default: 3.0 sec)
3. Confirm the setting and return to the Menu Screen.

Fade out time setting

1. Select FADE OUT TIME on the PLAY 4 page, and open the FADE OUT TIME Screen.



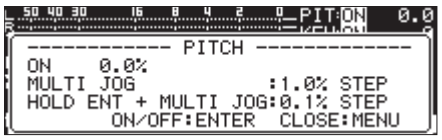
2. Select the fade out time.
   Options: 0.5 sec – 30.0 sec
   (in 0.5sec steps, default: 3.0 sec)
3. Confirm the setting and return to the Menu Screen.

Using the pitch control function

Using the pitch control function, you can change the pitch (sound frequency and playback speed) of playback.

Turning the pitch control function on/off

1. When the Home Screen is open during playback or when paused or stopped , press the USER button that has PITCH assigned to it to open the pitch setting pop-up window. (See "Assigning functions to the USER buttons" on page 32.)
2. Press the MULTI JOG dial to turn on/off the pitch control function.



3. Press the MENU [BROWSE] button or the USER button that has PITCH assigned to it to close the pitch setting window and complete the setting.

ATTENTION

If you turn the pitch control function on/off during playback, the playback sound might skip momentarily.

NOTE

The pitch control function setting is shown at the top right of the Home Screen.



Adjusting the pitch

1. Press the USER button that has PITCH assigned to it to open the pitch setting pop-up window.
2. Turn the MULTI JOG dial to change the pitch.



Setting range: –16% – +16.0% (default: 0.0%) in 1% increments

3. Press the MENU [BROWSE] button or the USER button that has PITCH assigned to it to close the pitch setting window and complete the setting.

NOTE

- Press and turn the MULTI JOG dial to change the pitch in 0.1% increments.
- The set pitch adjustment is retained even when the pitch control function is turned off and will be applied when the function is turned on again.
- The pitch control function setting can also be changed using the PITCH item on the PLAY 4 page of the Menu Screen.



TIP

By using the key control and pitch control functions together, you can change the speed without changing the pitch. (See "Using the key control function" on page 41.)

Using the key control function

The key control function can be used to change the key (pitch in semitones) during playback.

Turning the key control function on/off

1. When the Home Screen is open during playback or when paused or stopped, press the USER button that has KEY assigned to it to open the key setting pop-up window. (See "Assigning functions to the USER buttons" on page 32.)
2. Press the MULTI JOG dial to turn on/off the key control function.



3. Press the MENU [BROWSE] button or the USER button that has KEY assigned to it to close the key setting window and complete the setting.

ATTENTION

When using the control function, the playback sound might seem to fluctuate. This is the result of special processing of the playback sound and is not a malfunction.

NOTE

The key control function setting is shown at the top right of the Home Screen.



Setting the key

1. Press the USER button that has KEY assigned to it to open the key setting pop-up window.
2. Turn the MULTI JOG dial to change the key.



Setting range: b6 – b1, 0 (default, no key change),
#1 – #6

3. Press the MENU [BROWSE] button or the USER button that has KEY assigned to it to close the key setting window and complete the setting.

NOTE

The key control function setting can also be changed using the KEY item on the PLAY 4 page of the Menu Screen.



TIP

When both the key control and pitch control functions are on, the key control function sets the key (pitch in semitones) and the pitch control function sets the speed (but not the pitch). Therefore, you can use pitch control to change only the playback speed without changing the pitch when the key is set to "0" and the key control function is on.

Using the repeat playback function

All tracks in the playback area can be played back repeatedly. Specified intervals within a track can also be played back (A-B repeat playback).

Ordinary repeat playback settings

When the repeat playback function is on, operation depends on the playback mode setting.

Playback mode setting	Function
CONTINUE	Repeat playback of the playback area set on the PLAY AREA screen
SINGLE	Repeat playback of the current track
PROGRAM	Repeat playback of the entire program
RANDOM	Repeat playback in random order of the playback area set on the PLAY AREA screen

Follow the procedures below to turn the repeat playback function on.

1. Select REPEAT on the PLAY 1 page to open the REPEAT screen. (See "Menu operation procedures" on page 23.)



2. Turn the repeat function on or off.

   Options: OFF (default), ON

3. Confirm the setting and return to the Menu Screen.

NOTE

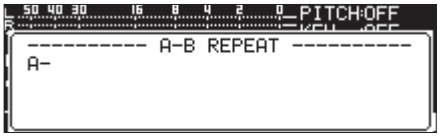
The repeat function on/off setting can also be changed using the USER button that has REPEAT assigned to it. (See "Assigning functions to the USER buttons" on page 32.)

A-B repeat playback settings

Specified intervals within a track can be played back (A-B repeat playback). Follow the procedures below to use A-B repeat playback.

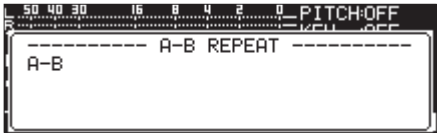
1. When playing back or in playback standby, press the USER button that has A-B assigned to it at the point where the repeat playback interval should start (A). (See "Assigning functions to the USER buttons" on page 32.)

   On the Home Screen, "-- A-B Repeat --" and "A-" appear in a pop-up.



2. Press the USER button that has A-B assigned to it at the point where the repeat playback interval should end (B).

   On the Home Screen, "-- A-B Repeat --" and "A-B" appear in a pop-up.



   This confirms the set interval (A-B) and starts A-B repeat playback.

NOTE

- Press the STOP button on the unit or the remote control to clear the set interval (A-B).
- The A-B repeat playback interval cannot include more than one track.
- When the set interval (A-B) is cleared, the repeat setting is also turned off.

Using the auto cue function

If the auto cue function is on, when a track is selected, the unit will skip any silence at the beginning of the track and pause at the point where sound actually starts. As a result, sound will be output immediately after playback starts.

The threshold level (auto cue level) for the audio signal detection used by the auto cue function can also be set. In short, the unit will treat signals above the auto cue level as sound and signals below the auto cue level as silence.

NOTE

When the auto cue function is on, if a track is selected during playback, it will start playing from the point where sound is first detected.

If a track is selected when playback is paused, playback will pause at the point where sound is first detected.

Select AUTO CUE on the PLAY 1 page to open the AUTO CUE screen. (See "Menu operation procedures" on page 23.)



NOTE

- The auto cue function on/off setting can also be changed using the USER button that has AUTO CUE assigned to it. (See "Assigning functions to the USER buttons" on page 32.)
- When the AUTO CUE screen is open, use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor between setting items.

Turn the auto cue function on/off

Select MODE and turn the auto cue function on/off.

Options: OFF (default), ON

Set the auto cue level

Select LEVEL and set the auto cue level.

Options: –72 dB, –66 dB, –60 dB, –54 dB (default), –48 dB, –42 dB, –36 dB, –30 dB, –24 dB

NOTE

When the auto cue function is on, the AUTO CUE icon appears in the playback screen function activation status area.

Using the auto ready function

If the auto ready function is on, after playback of a track completes, playback will pause at the beginning of the next track.

1. Select AUTO READY on the PLAY 1 page to open the AUTO READY screen. (See "Menu operation procedures" on page 23.)



2. Turn the auto ready function on or off.

   Options: OFF (default), ON

3. Confirm the setting and return to the Menu Screen.

NOTE

- The auto ready function on/off setting can also be changed using the USER button that has AUTO READY assigned to it.
- When the auto ready function is on, the AUTO READY icon appears in the playback screen function activation status area.
- If the auto cue function is also on, playback will pause at the point where sound starts rather than the beginning of the track.
- When playing back using the flash start function, the auto ready function is disabled.

Using the incremental playback function

When the incremental playback function is on, press the main unit or remote control PLAY button during playback to start playback from the beginning of the next track, or press the main unit or remote control STOP button during playback to pause at the beginning of the next track.

1. Select INCREMENTAL PLAY on the PLAY 2 page to open the INCREMENTAL PLAY screen. (See "Menu operation procedures" on page 23.)



2. Turn the incremental playback function on or off.

   Options: OFF (default), ON

3. Confirm the setting and return to the Menu Screen.

NOTE

- The incremental playback function on/off setting can also be changed using the USER button that has INC PLAY assigned to it.
- When the incremental playback function is on, the INC. PLAY icon appears in the playback screen function activation status area.
- When the incremental playback function is on and playback is paused, press the main unit or remote control PLAY button to start playback from that point.

  When playback is paused press the main unit or remote control STOP button to stop playback. When the last track is playing back, press the main unit or remote control PLAY button to start playback from the beginning of the first track in the playback area, or press the main unit or remote control STOP button to pause at the beginning of the first track in the playback area.
- If the incremental playback function is used together with the fader start/stop function, lowering the fader will move to the beginning of the next track.

Playing back in mono

Stereo audio files can be played back in mono. The left and right track channel signals are mixed together, and this mix is output from both the left and right channels.

1. Select MONO MIX on the PLAY 2 page to open the MONO MIX screen. (See "Menu operation procedures" on page 23.)



2. Turn the mono playback function on or off.

   Options: OFF (default), ON

3. Confirm the setting and return to the Menu Screen.

Using the ducking function

When the ducking function is active, signals input to this unit and playing back from the recorder are mixed and output.

Select DUCKING on the PLAY 2 page to open the DUCKING screen. (See "Menu operation procedures" on page 23.)



NOTE

- When the DUCKING screen is open, use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor between setting items.
- When the ducking function is active, ducking tally signals are output from the PARALLEL connector.

Input source information display

This shows the selected input source. (See "Selecting the input source" on page 66.)

Setting the ducking function operation mode

Select MODE, and set the ducking function operation mode.

Option	Meaning
OFF (default)	The ducking function is disabled.
ATT. INPUT	When the recorder playback signal level exceeds the THRESHOLD level setting, the analog input signal is reduced by the ATTENUATION level setting.
ATT. PLAYBACK	When the input signal level exceeds the THRESHOLD level setting, the recorder playback signal is reduced by the ATTENUATION level setting.

Setting the ducking threshold level

Select THRESHOLD, and set the ducking operation threshold level.

Options: –30 dBFS, –24 dBFS, –18 dBFS, –12 dBFS, –6 dBFS (default)

Setting the ducking attenuation (reduction) level

Select ATTENUATION, and set the ducking attenuation (reduction) level.

Options: –INFINITY, –24 dB, –18 dB, –12 dB, –9 dB, –6 dB, –3 dB (default)

Setting the time until ducking stops after the signal goes below the threshold level

Select RELEASE TIME, and set the time until ducking stops after the signal goes below the threshold level.

Options: 0.1sec (default), 0.5sec, 1.0sec, 1.5sec, 2.0sec, 2.5sec, 3.0sec, 3.5sec, 4.0sec, 4.5sec, 5.0sec

Using the EOM function

Turn the EOM function on to output an EOM tally signal from the PARALLEL connector when the remaining time of the track or playback area becomes less than a set time.

Setting the EOM tally output trigger

1. Select EOM TRACK or EOM MEDIA on the PLAY 2 page. (See "Menu operation procedures" on page 23.)





EOM TRACK: Trigger with track remaining time
EOM MEDIA: Trigger with playback area remaining time

2. Set the amount of remaining time for the track or playback area that will trigger EOM tally signal output.

Options: OFF (default), 0sec – 99sec (in 1sec intervals)

NOTE

If EOM TRACK is set to "0s" a pulse of about 100ms will be output when the track finishes.

3. Confirm the setting and return to the Menu Screen.

Using this function

1. Connect the device to receive the EOM tally signal to the PARALLEL connector.
2. Turn this unit and the receiving device on.
3. Start playback on this unit.

When the remaining time of the track or playback area becomes less than the set time, an EOM tally signal will be output from the PARALLEL connector.

When both track and playback area triggers are set, an EOM tally signal will be output when either condition is met.

Using the resume function

When the resume playback function is on, playback can restart from the point where it was last stopped (resume point).
The following actions will clear the resume point.

- Ejecting the current media
- Changing the playback area
- Changing the playback mode
- Changing the contents of the current media (by recording, editing, deleting, etc.)

Use the menu to turn the resume playback function on/off.

1. Select RESUME on the PLAY 3 page to open the RESUME screen. (See "Menu operation procedures" on page 23.)



2. Turn the resume playback function on or off.

   Options: OFF, ON (default)

3. Confirm the setting and return to the Menu Screen.

NOTE

- The resume point will be retained even if the power supply source is turned off during playback.
- If there are no playable tracks (when the playback mode is set to "PROGRAM"), all the counters will have a value of zero.
- If there is no resume point (no time has been set as the resume point), the beginning of the playback track will become the resume point.

Using the time skip function

When playing back or in playback standby, you can skip forward and backward by the amount of time set using the time skip function.
When playing back or in playback standby, press the main unit ◄◄ [EDIT] or ►► [FADE] button (or remote control ◄◄ [I◄◄] or ►► [►►I] button) to skip from the current position by the amount of time set with the time skip function.
After skipping time, the same operation will resume.

1. Select TIME SKIP on the PLAY 3 page to open the TIME SKIP screen. (See "Menu operation procedures" on page 23.)



2. Set the amount of time skipped using the time skip function.

   Range: OFF, 1sec – 60sec (default, 1sec intervals), 5min, 10min

NOTE

Skipping is disabled when the time skip function is "OFF".

3. Confirm the setting and return to the Menu Screen.

NOTE

- If you press the main unit ◄◄ [EDIT] button (or remote control ◄◄ [I◄◄] button) when there is less time from the beginning of the track than the amount set by the track skip function, it will skip to the beginning of the current track.
- If you press the main unit ◄◄ [EDIT] button (or remote control ◄◄ [I◄◄] button) when less than one second from the beginning of a track, it will skip backward from the end of the previous track by the amount of time set with the track skip function.
- If it is the first track in the current media or program, it will pause at the beginning of the current track. If the playback mode is set to "RANDOM" and you press the main unit ◄◄ [EDIT] button (or remote control ◄◄ [I◄◄] button) when there is less time from the beginning of the track than the amount set by the track skip function, it will skip to the beginning of the track.
- If you press the main unit ►► [FADE] button (or remote control ►► [►►I] button) when there is less time to the end of the track than the amount set by the track skip function, it will skip to the beginning of the next track. If it is the last track in the current media or program, however, playback will pause at the end of the current track.

Setting playback start timing

You can set the timing that playback starts when this unit is in playback standby and a fader on an external controller is raised from its lowest position (–∞).

1. Select FADER DELAY on the PLAY 3 page to open the FADER START DELAY screen. (See "Menu operation procedures" on page 23.)



2. Set the playback start timing.

   Range: OFF (default), 100msec, 200msec, 300msec

3. Confirm the setting and return to the Menu Screen.

Setting the sampling rate of output audio

You can output audio using a set sampling rate regardless of the sampling rates of the files.

1. Select the OUTPUT RATE item on the PLAY 3 page to open the OUTPUT RATE screen. (See "Menu operation procedures" on page 23.)



2. Set the sampling rate used for output audio.

Option	Meaning
AUTO (default)	Use file sampling rates.
44.1kHz	Convert to 44.1 kHz and output.
48kHz	Convert to 48 kHz and output.
96kHz	Convert to 96 kHz and output.
EXTERNAL	Use sampling rate synchronized to input source clock. When an analog input is selected, this setting functions as "AUTO".

NOTE

When set to EXTERNAL, if synchronization with the external clock is not possible, file sampling rates will be used.

3. Confirm the setting and return to the Menu Screen.

NOTE

- If the selected medium at startup is CD, output will be at 44.1 kHz. If any other medium is selected, output will be at the sampling rate set using REC FORMAT.
- The IF-DA2 (Dante) has a sampling rate converter. Audio output from an IF-DA2 (Dante) card will use the card's operating sampling rate regardless of this setting.

Using the call function

The call function returns to the call point (last point playback started from playback standby) and resumes playback standby.

Press the PAUSE [CALL] button when in playback standby or press the USER button that has CALL assigned to it when stopped, playing or in playback standby to return to the last point playback started from playback standby and resume playback standby. (See "Assigning functions to the USER buttons" on page 32.)

The following actions will clear the call point.

- Turning the unit off
- Ejecting the current media
- Changing the playback area
- Changing the playback mode
- Changing the contents of the current media (by recording, editing, deleting, etc.)

NOTE

- If the call point is not set, pressing the PAUSE [CALL] button or the USER button that has CALL assigned to it will cause a "No Call Point" pop-up warning message to appear and operation will continue as it was.
- You cannot use the call function when the playback mode is set to "PROGRAM" or "RANDOM".

Setting the call function

1. Select CALL on the PLAY 3 page to open the CALL FUNCTION screen. (See "Menu operation procedures" on page 23.)



2. Turn the call function on or off.

Options	Meaning
DISABLE	Do not use call function
ENABLE (default)	Use call function

NOTE

If the CALL FUNCTION screen setting is "DISABLE", the unit will not search for call points.

3. Confirm the setting and return to the Menu Screen.

Using the link playback function

By using the link playback function, you can link the playback operations of a master unit to a slave unit.

The slave unit can be used as a playback backup.

The linked operations are playing back, entering playback standby, stopping, track skipping and searching.

ATTENTION

- The synchronization of actions in response to operations is not guaranteed.
- In order to reduce delays in operation, whenever possible, use the same types of media from the same manufacturers with the same contents.
- In addition, make the same playback settings (auto cue, auto ready and other functions) and set the same flash load status, for example, on both units.
- Clock is not synchronized, so a small difference in playback time could occur after playing back for a long time. When the link playback function is in use, the digital connectors used for it cannot be used for audio input and output.

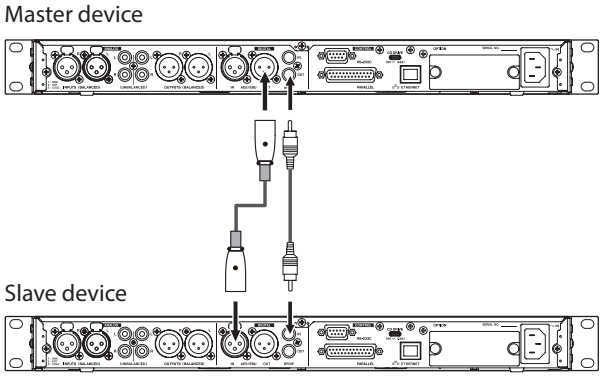
NOTE

- These models are capable of link playback: SS-R300N, SS-R250N, SS-CDR250N
- Slave units will not begin playback in coordination with playback started using the power on action function. (See "Power on action function setting" on page 118.)
- During repeat playback, slave units will not follow the master unit if it executes a repeat operation.

Making connections for link playback

Connect a digital output connector on the master unit to a digital input connector on the slave unit.

Connect either the SPDIF IN/OUT (RCA) or AES/EBU IN/OUT (XLR) connectors.



Making link playback settings

Select LINK PLAY on the UTILITY page to open the LINK PLAY screen. (See "Menu operation procedures" on page 23.)



NOTE

When the LINK PLAY screen is open, use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor between setting items.

Making link playback mode settings

Select MODE, and set whether the unit is the master or the slave during link playback.

Options: OFF (default), MASTER, SLAVE

Setting the link playback connector

Select TERMINAL, and set the connector to use for link playback.

Option	Meaning
COAXIAL (default)	SPDIF IN/OUT connectors used
XLR	AES/EBU IN/OUT connectors used

Using the flash start function

The flash start function allows playback to be started immediately for tracks that have been registered in advance.

The starting points for up to 96 tracks can be loaded into memory so that playback of them can be started immediately. This can be controlled using a USB keyboard connected to the front of the unit, an external device connected to the PARALLEL connector on the back of the unit or a TASCAM RC-SS150 (sold separately) flash start remote control unit.

1. Set the playback area. (See "Playback area" on page 36.)
   Set the current playback area to a playlist or folder that contains the tracks you want to flash start.
2. Set the playback mode to "CONTINUE" or "PROGRAM". (See "Setting the play mode" on page 37.)

NOTE

If the playback mode is set to "RANDOM", flash loading is not possible.

3. When stopped, press the STOP [LOAD] button while pressing the SHIFT button on the unit or press a flash load button on an external controller.
   This unit will load the starting point data for the tracks in the playback area in sequence.
   When the playback mode setting is "CONTINUE", they will be loaded in order from the first track. If it is "PROGRAM", they will be loaded in program order.
   While loading, a "Loading Flash Play Data" pop-up message appears on the Home Screen.
   When loading completes, the FLASH LOAD icon appears on the Home Screen.

NOTE

- Tracks that have been flash loaded will flash start when playback is executed from the main unit, the remote control or an external controller.
- During playback, a flash load button can be pressed to stop playback.
- If the playback mode is set to "RANDOM", pressing the STOP [LOAD] button while pressing the SHIFT button on the unit or pressing a flash load button on an external controller will open a "Cannot Select" pop-up warning message and data will not be loaded.
- If the playback mode is set to "SINGLE", pressing the STOP [LOAD] button while pressing the SHIFT button on the unit or pressing a flash load button on an external controller will load tracks in order from the first track in the playback area in the same way as if set to "CONTINUE".

4. When the FLASH LOAD icon appears on the Home Screen, you can use a USB keyboard connected to the front of the unit or an external device connected to the PARALLEL connector to flash start tracks.
   You can use Ctrl + function (F1–F12) keys to flash start tracks 1–12. (See "List of keyboard operations" on page 121.)
   When using the PARALLEL connector, you can flash start tracks 1–20. (See "PARALLEL connector overview" on page 15.)

TIP

In the playback area is set to "PLAYLIST", you can efficiently set flash starting for desired tracks by assigning them to a playlist and selecting it is the current playlist. (See "Playback area" on page 36 and "7 - Editing Playlists (USB flash drives/SD cards only)" on page 60.)

5 - Working with Folders and Files (BROWSE screen)

You can manage audio files on SD cards and USB flash drives in a folder structure.

After selecting a folder or file to work with on the BROWSE screen, you can open a folder or file pop-up menu.

When using an SD card or USB flash drive, you can create folders, change the names of folders and files, delete them and assign files to playlists, for example, in this menu. In addition, from the BROWSE screen, you can move and copy folders and files between folders.

NOTE

- Using a computer to read the contents of SD cards and USB flash drives, you can change the folder structure, edit the names of folders and files, and delete folders and files, for example.
- Making changes with a computer, however, could cause the order of the files to change when played back on the unit.

Opening the BROWSE screen

In the following examples, we assume that an SD card is loaded and that SD1 is selected as the current media. (See "Selecting media" on page 30.)

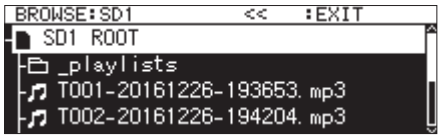
When the playback area is "ALL" or "FOLDER" and the unit is playing back, in playback standby or stopped, press the MENU [BROWSE] button while pressing the SHIFT button to open the BROWSE screen. (See "Playback area" on page 36.)

The first time, the contents of the current folder on the current medium will be shown.

After the first time, the contents of the last shown medium or folder will be shown again.



Medium selected on the BROWSE screen



SD1 ROOT level open on BROWSE screen

NOTE

To return to the media selection screen, on the ROOT level screen of the medium, press the MENU [BROWSE] or ◄◄ [EDIT] button.

Navigating the BROWSE screen

On the BROWSE screen, folders appear in a list in the same way files are shown on a computer.

When the BROWSE screen is open, use the MULTI JOG dial or ◄◄ [EDIT]/►► [FADE] buttons (or remote control F3/F4 or ◄◄ [I◄◄]/►► [►►I] buttons) to select a folder or file for use.

- Press the MULTI JOG dial to open a folder or file pop-up menu. (See "Folder operations" on page 51 and "File operations" on page 52.)
- Turn the MULTI JOG dial or press the remote control F3/F4 buttons to select a folder or file inside the same folder.
- Press the main unit ◄◄ [EDIT] button (or remote control ◄◄ [I◄◄] button) to move up one level. Press the main unit ►► [FADE] button (or remote control ►► [►►I] button) when a folder is selected on the second line or below to open that folder. You can also change levels when a folder is selected by turning the MULTI JOG dial to open the pop-up folder menu and select the EXIT or ENTER item. If the top line of the BROWSE screen is selected, the EXIT item that moves up one level will appear. If the second or later line is selected, the ENTER item that moves down one level will appear.
- Press the HOME [INFO] button (or remote control F2 button) to return to the Home Screen.
- Press the MENU [BROWSE] button to return to the Menu Screen.
- When a folder or file is selected, press the main unit or remote control PLAY button to return to the Home Screen and play that folder or file.
  If the playback area is "FOLDER", the selected folder will become the current folder.
- When a folder or file is selected, press the PAUSE [CALL] button to return to the Home Screen and enter playback standby at the beginning of that folder or file.
  If the playback area is "FOLDER", the selected folder will become the current folder.
- When a folder or file is selected, press the SHIFT button to scroll file and folder names that are not shown completely.

NOTE

- To show the contents of the CD on the BROWSE screen, set the current medium to CD.
- When showing content on an SFTP server, folders and files with "." at the beginnings of their names will not be shown.

Icons on the BROWSE screen

The icons that appear on the BROWSE screen are as follows.

Media icons

The icon for the selected medium (/ /) followed by the word "ROOT" will appear.

- icon: SD card
- icon: USB flash drive
- icon: FTP

Playlists

The file name appears after the icon.
The icon appears for the current playlist.

Plain folder

The file name appears after to the icon.
The icon appears for the current folder.

Audio file

The audio file name appears after the icon.

Other files

The file name appears after to the icon.

Folder operations

Select the desired folder on the BROWSE screen and press the MULTI JOG dial to open the pop-up folder menu.



Turn the MULTI JOG dial to select the desired operation, and press the MULTI JOG dial to execute it as follows.

NOTE

When a protected SD card is loaded in the unit, the RENAME, DELETE and CREATE FOLDER items cannot be used. (See "SD card write-protection switches" on page 29.)

ENTER/EXIT

Press the MULTI JOG dial when the ENTER item is shown to enter the selected folder and view its contents as a list.
Press the MULTI JOG dial when the EXIT item is shown to close the selected folder and move up one level.

RENAME

Open the RENAME screen where you can edit the name of the selected folder. (See "Editing folder and file names" on page 53.)

DELETE

Delete the selected folder. (See "Deleting folders and files" on page 54.)

UNDO

Immediately after deleting a folder or file, you can undo the deletion. (See "Undoing edit menu operations (UNDO)" on page 83.)

COPY

Copy the selected folder. (See "Copying folders and files" on page 56.)

MOVE

Move the selected folder. (See "Moving folders and files" on page 57.)

SORT BY TIME

Reorder the folders and files shown by creation date.

SORT BY NAME

Reorder the folders and files shown by name.

SET TO CURRENT FOLDER

Set the selected folder as the current folder.

GO TO CURRENT FOLDER

Move to the current folder.

NOTE

- The current folder:
  - is the playback area when playback area is set to "FOLDER"
  - is where recorded files are saved
  - is where files are downloaded by download events when using the timer event function
- After creating a new folder for saving recorded files, follow the procedures above to make it the current folder.

CREATE FOLDER

Create a new folder. (See "Creating new folders" on page 55.)

INFO

Open a pop-up with the information about the selected folder (total number of files, total time, total capacity and last change date).



CANCEL

Close the folder menu.

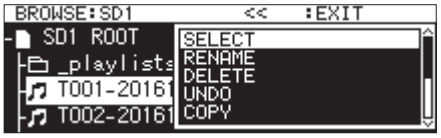
NOTE

The following folder menu items will appear after a new folder is created using the CREATE FOLDER operation.

- RENAME
- DELETE
- UNDO
- MOVE

File operations

Select the desired audio file on the BROWSE screen and press the MULTI JOG dial to open the pop-up file menu.



Turn the MULTI JOG dial to select the desired operation, and press the MULTI JOG dial to execute it as follows.

NOTE

When a protected SD card is loaded in the unit, the RENAME, DELETE, ASSIGN to PLAYLIST and COPY items cannot be used. (See "SD card write-protection switches" on page 29.)

SELECT

Set the selected file as the current track.

RENAME

Open the RENAME screen where you can edit the name of the selected file. (See "Editing folder and file names" on page 53.)

DELETE

Delete the selected file. (See "Deleting folders and files" on page 54.)

UNDO

Immediately after deleting a folder or file, you can undo the deletion. (See "Deleting folders and files" on page 54.)

COPY

Copy the selected file to a different folder. (See "Copying folders and files" on page 56.)

MOVE

Move the selected file. (See "Moving folders and files" on page 57.)

ASSIGN to PLAYLIST

Assign the selected file to the current playlist at the desired position. (See "Assigning files to a playlist" on page 55.)

SORT BY TIME
Reorder the files in the folder shown by creation date.

SORT BY NAME
Reorder the files in the folder shown by file name.

INFO
Information about the selected file (including file format and sampling frequency) is shown in a pop-up.

CANCEL
Close the file menu.

NOTE

The following operations are only possible when the "PLAY MODE" is set to "CONTINUE".

- RENAME, DELETE, UNDO, COPY, MOVE, SORT BY TIME, SORT BY NAME

Editing folder and file names

NOTE

The names of folders and files on CDs cannot be edited.

1. Select the folder or file with the name you want to edit, and open the folder/file pop-up menu. (See "Folder operations" on page 51 and "File operations" on page 52.)
2. Select the RENAME item to open the RENAME FOLDER, RENAME TRACK or RENAME FILE screen.



Editing a file name

3. Edit the name.
   Use up to 31 characters.
   For details about how to edit the text, see "Editing text" on page 71.
4. After you finish editing the name, select "ENTER" to confirm it.
   A "RENAMING..." pop-up appears while the name is being changed.
   After renaming completes, the BROWSE screen reopens.

ATTENTION

- You can connect a USB flash drive or SD card to a computer and edit names from the computer. Doing so, however, could cause the order of the files to change when played back on the unit.
- On a text input screen, characters other than half-width (normal) English letters, numerals and symbols will not be shown. If text includes characters other than half-width English letters, numerals and symbols, opening a text input screen will delete them.
- The following symbols and punctuation marks cannot be used in text.

  / : * ? " " < > |

Deleting folders and files

You can delete folders and files from SD cards and USB flash drives.

Deleting a folder will also delete all the files it contains.

This is only possible when the playback mode is set to "CONTINUE".

1. Select the folder or file that you want to delete, and open the folder/file pop-up menu. (See "Folder operations" on page 51 and "File operations" on page 52.)
2. Select the DELETE item, and press the MULTI JOG dial.
   The following pop-up message will appear.



When deleting a file

NOTE

Press the MENU [BROWSE] button to cancel deletion.

3. Press the MULTI JOG dial.
   A second confirmation pop-up message will appear.
4. Press and hold the MULTI JOG dial to delete the selected folder or file from the USB flash drive or SD card.
   A "Deleting Folder..." pop-up, for example, appears while the folder or file is being deleted.
   When deleting completes, the BROWSE screen opens.

NOTE

Immediately after deleting a folder or file, you can undo the deletion. (See "Undoing edit menu operations (UNDO)" on page 83.)

Undoing folder or file deletion (UNDO)

Immediately after deleting a folder or file, you can undo the deletion.

Undoing (UNDO) is only possible when the playback mode is set to "CONTINUE".

NOTE

Undoing (UNDO) is not possible when using a CD.

1. On the BROWSE screen, press the MULTI JOG dial to open the folder or file pop-up menu. (See "Folder operations" on page 51 and "File operations" on page 52.)
2. Select UNDO, and press the MULTI JOG dial to open a confirmation pop-up message.
3. Press the MULTI JOG dial to undo.
   A pop-up window appears while undoing.
   When undoing completes, the BROWSE screen opens.

NOTE

- Press the MENU [BROWSE] button to cancel undoing (UNDO).
- If there are no folders or files for which deletion can be undone, "Cannot UNDO" appears in a pop-up warning message.

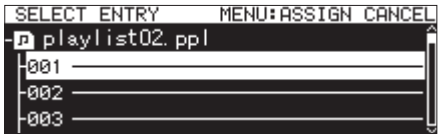
Assigning files to a playlist

Files can be assigned to the current playlist at the desired positions.

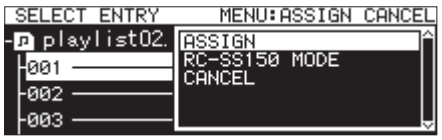
NOTE

- CD tracks cannot be added to a playlist.
- AAC files cannot be added to a playlist.

1. Select the desired file, and press the MULTI JOG dial to open the pop-up file menu. (See "File operations" on page 52.)
2. Select ASSIGN to PLAYLIST, and press the MULTI JOG dial to open the playlist assignment screen.



3. Turn the MULTI JOG dial to select the playlist entry position where you want to assign the file.
4. Press the MULTI JOG dial to open the playlist entry pop-up menu.



5. Select ASSIGN, and press the MULTI JOG dial to assign the file to the playlist.

NOTE

- A maximum of 100 entries can be assigned to a playlist. Flash playback, however, can only be used with 96 entries. See "7 - Editing Playlists (USB flash drives/SD cards only)" on page 60 for details.
- If you want to assign a file to a specific place in a playlist, see "Assigning files to playlists" on page 64.

Creating new folders

NOTE

Folders cannot be created on CDs.

1. Select the folder in which you want to create a new sub-folder, and open the folder pop-up menu. (See "Folder operations" on page 51.)
2. Select CREATE FOLDER, and open the CREATE FOLDER screen.



3. Input the folder name.
   Use up to 31 characters.
   For details about how to input a folder name, see "Editing text" on page 71.
4. After you finish editing the folder name, select "ENTER" to confirm it.
   A confirmation pop-up message will appear.



NOTE

During folder creation, press the MENU [BROWSE] button to cancel it.

5. Press the MULTI JOG dial to create the new folder.
   A "Creating Folder..." pop-up appears while the new folder is being created.
   After creation of the new folder completes, the BROWSE screen reopens and the new folder becomes the current folder.

NOTE

- The maximum number of folders that can be created on a single SD card or USB flash drive is 999.
- Media that are 2GB or less might not allow the creation of the above maximum number of folders inside the root folder due to file system limitations and use conditions.
- The initial folder name shown will be the year, month and day of the built-in clock. (Example: 20170120)
- If this would be the same as the existing name, a three-digit number is added after the year, month and day provided by the built-in clock. (Example: 20170120_001)

Copying folders and files

1. Select the folder or file that you want to copy, and open the folder/file pop-up menu. (See "Folder operations" on page 51 and "File operations" on page 52.)
2. Select COPY, and press the MULTI JOG dial to open the copy destination folder selection screen.

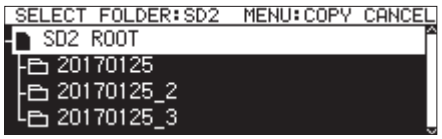
NOTE

- You cannot copy from FTP to FTP.
- Copying to or from a CD is not possible on the BROWSE screen. Use the CD menu RIP TO MEMORY item. (See "Converting and copying audio CD tracks" on page 84.)

3. Move to the copy destination folder.
   - If it is the first time copying, the media selection screen will open. Select the medium that contains the copy destination folder and then move to that folder.



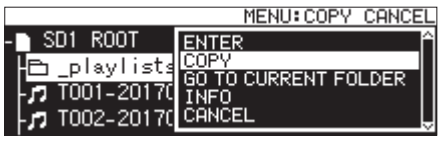
   - If it is the second or later time, the last shown copy destination folder selection screen will reopen.



NOTE

- During copy destination folder selection, SELECT FOLDER blinks on the BROWSE screen.
- While selecting a copy destination folder, press the MENU [BROWSE] button to open a "CANCEL COPY?" confirmation pop-up message. Press the MULTI JOG dial to close the copy destination folder selection screen and return to the BROWSE screen.
- While the copy destination is selected, select the CANCEL item from the folder or file menu, and press the MULTI JOG dial to close the copy destination folder selection screen and return to the BROWSE screen.

4. Select the copy destination folder, and open the folder pop-up menu.



5. Select COPY, and press the MULTI JOG dial to open a confirmation pop-up message.



6. Press the MULTI JOG dial to copy the item.
   Press the MENU [BROWSE] button to cancel copying or change the copy destination.

NOTE

If a folder or file with the same name already exists in the copy destination, a "Cannot Copy Folder" or "Cannot Copy File" pop-up message will open.

To change the name of the copied folder or file, press the MULTI JOG dial.

For details about how to input text, see "Editing text" on page 71.

Press the MENU [BROWSE] button to cancel copying.

7. A "COPYING Track…" pop-up message appears while the item is being copied.
   When copying completes, the pop-up disappears and the BROWSE screen reopens.

Moving folders and files

1. Select the folder or file that you want to move, and open the folder or file pop-up menu. (See "Folder operations" on page 51 and "File operations" on page 52.)
   Select MOVE, and press the MULTI JOG dial to open the move destination folder selection screen.

   NOTE

   Movement to or from CD or FTP is not possible.

2. Move to the selected destination folder.
   - If it is the first time moving, the media selection screen will open. Select the folder on the medium that contains the destination folder.
   - If it is the second or later time, the last shown move destination folder selection screen will reopen.

   NOTE

   - During move destination folder selection, SELECT FOLDER blinks on the BROWSE screen.
   - While selecting a move destination folder, press the MENU [BROWSE] button to open a "CANCEL MOVE?" confirmation pop-up message. Press the MULTI JOG dial to close the move destination folder selection screen and return to the BROWSE screen.
   - While the move destination is selected, select the CANCEL item from the folder or file menu, and press the MULTI JOG dial to close the move destination folder selection screen and return to the BROWSE screen.

3. Select the folder or file that you want to move it to, and open the folder/file pop-up menu.
4. Select MOVE, and press the MULTI JOG dial to open a confirmation pop-up message.
5. Press the MULTI JOG dial to move the item.
   Press the MENU [BROWSE] button to cancel moving or change the move destination.

   NOTE

   If a folder or file with the same name already exists in the copy destination, a "Cannot Move Folder" or "Cannot Move File" pop-up message will open.
   To change the name of the moved folder or file, press the MULTI JOG dial.
   For details about how to input text, see "Editing text" on page 71.
   Press the MENU [BROWSE] button to cancel moving.

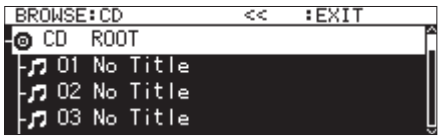
6. A "MOVING Track…" pop-up appears while the item is being moved.
   When moving completes, the pop-up disappears and the BROWSE screen reopens.

6 - Using the audio CD BROWSE screen

You can use the BROWSE screen with an audio CD to select tracks for playback.
In the following explanations, we assume that an audio CD is loaded and that "CD" is selected as the current medium.

Opening the audio CD BROWSE screen

When the unit is playing back, in playback standby or stopped, press the MENU [BROWSE] button while pressing the SHIFT button to open the audio CD BROWSE screen.
This screen shows the tracks in numerical order.



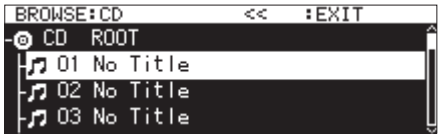
Closing the BROWSE screen and returning to the Home Screen:

Press the HOME [INFO] button (or remote control F2 button).

Selecting a track to play

Follow the procedures below select tracks for playback from the audio CD BROWSE screen.

1. Open the BROWSE screen and select the track that you want to play.



2. Press the PLAY button (or remote control PLAY button).
   When stopped, doing this will start playback of the selected track.
   When in playback standby, doing this will start playback standby at the beginning of the selected track.

NOTE

You can also use the file menu SELECT item to set the selected track as the current track.

7 - Editing Playlists (USB flash drives/SD cards only)

Playlist editing overview

The first time that any SD card or USB flash drive is loaded in the unit, one empty playlist will be created on it automatically. You can also create new playlists.

Playback units in the playlist are called "entries".

A maximum of 100 entries can be assigned to a playlist.

Only files on the medium that contains the created playlist can be assigned as entries.

To assign files from other media to a playlist, copy them to the current medium first.

An entry can be assigned and removed from a playlist even when it is being played back.

The entry that is currently being played, however, cannot be changed.

Opening the playlist screen

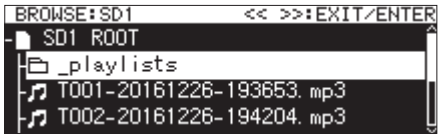
Opening the playlist screen from the BROWSE screen

You can view the playlist screen from the BROWSE screen.

If the medium was formatted by this unit, a "playlist01.ppl" playlist will automatically be created inside the "_playlists" folder in the first level of the "ROOT" folder. You can also create new playlists inside the "_playlists" folder. (See "Creating new playlists" on page 63.)

The following operation examples use "playlist01.ppl", which is automatically created after formatting.

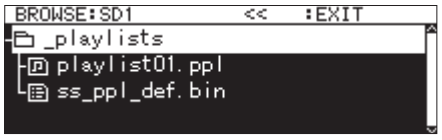
1. Press the MENU [BROWSE] button while pressing the SHIFT button to open the BROWSE screen.
2. When the "ROOT" folder is selected, turn the MULTI JOG dial to select the "_playlists" folder.



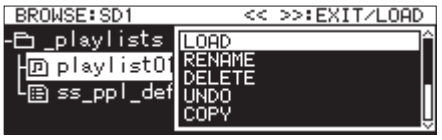
3. Press the MULTI JOG dial to open the pop-up folder menu.



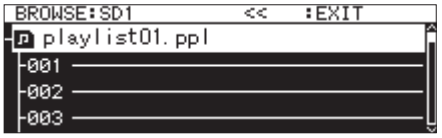
4. Select ENTER, and press the MULTI JOG dial.
   This opens the "_playlists" folder where the "playlist01.ppl" playlist that was automatically created appears.



5. Select "playlist01.ppl", and then press the MULTI JOG dial to open the playlist pop-up menu.



6. Select ENTER (if the current playlist is "playlist01.ppl") or LOAD (if the current playlist is not "playlist01.ppl"), and press the MULTI JOG dial to show the files that have been assigned to "playlist01.ppl". If nothing has been assigned yet, 100 blank entries will appear.

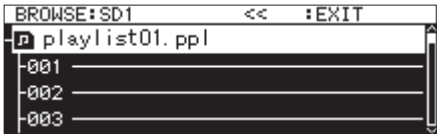


NOTE

On this unit, "playlist01.ppl" will be the current playlist at first. After other playlists have been created, the playlist opened last becomes the current playlist.

Opening the current playlist screen from the menu page

Select PLAYLIST EDIT on the GENERAL page to open the entry list screen for the current playlist.



Assigning files to a playlist

Files can be assigned to playlists.

See "Assigning files to playlists" on page 64 for details.

Playlist menu operations

When a playlist is selected, press the MULTI JOG dial to open the playlist menu.
This is a menu of operations that affect playlists.

NOTE

If the "Playlists" folder or current playlist is selected when the playlist menu pop-up is opened, the RENAME and DELETE items will not be shown.

LOAD

Load the selected playlist as the current playlist and open the entry list screen for the playlist. (See "Setting the current playlist" on page 61.)

ENTER

Open the entry list screen for the selected current playlist.

EXIT

Move up one screen level.
If the entry list screen is open, move to the "_playlists" folder.

RENAME

Change the name of the playlist. (See "Editing playlist names" on page 62.)

SAVE AS

Save the current playlist in the same "_playlists" folder with a different name. (See "Saving the current playlist with a different name" on page 62.)

DELETE

Delete the playlist. (See "Deleting playlists" on page 62.)

COPY

Copy the selected playlist file. (See "Copying folders and files" on page 56.)

MOVE

Move the selected playlist file. (See "Moving folders and files" on page 57.)

CREATE PLAYLIST

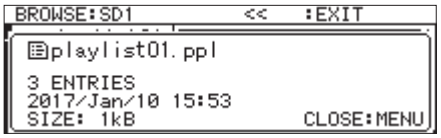
Create a new playlist. (See "Creating new playlists" on page 63.)

NOTE

When a protected SD card is loaded in the unit, the RENAME, DELETE and CREATE PLAYLIST items cannot be used. (See "SD card write-protection switches" on page 29.)

INFO

Shows playlist information.



CANCEL

Do no operation on the selected playlist and return to the playlist menu.

NOTE

The following operations are only possible when the "PLAY MODE" is set to "CONTINUE".

- RENAME, DELETE, UNDO, COPY, MOVE, SORT BY TIME, SORT BY NAME

Setting the current playlist

1. Select the playlist you want to set as the current playlist, and open the playlist pop-up menu. (See "Playlist menu operations" on page 61.)
2. Select LOAD, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.



NOTE

Press the MENU [BROWSE] button to cancel playlist loading.

3. Press the MULTI JOG dial again to load the selected playlist as the current playlist.
   While loading, "LOADING PLAYLIST..." appears in a pop-up.



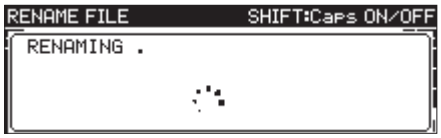
When loading completes, the entry list screen for the current playlist opens.

Editing playlist names

1. Select the playlist with the name you want to edit, and open the playlist pop-up menu. (See "Playlist menu operations" on page 61.)
2. Select RENAME, and open the RENAME FILE screen.



3. Edit the playlist name.
   Use up to 31 characters.
   For details about how to edit the playlist name, see "Editing text" on page 71.
4. After you finish editing the playlist name, select "ENTER" and press the MULTI JOG dial to confirm the name.
   A "RENAMING..." pop-up appears while the playlist name is being changed.



After renaming the playlist completes, the BROWSE screen reopens.

Saving the current playlist with a different name

1. Select the playlist that is set as current, and open the playlist pop-up menu. (See "Playlist menu operations" on page 61.)
2. Select SAVE AS, and open the PLAYLIST NAME screen.



3. Edit the playlist name, and save it.
   Use up to 31 characters.
   For details about how to edit the playlist name, see "Editing text" on page 71.
4. After you finish editing the playlist name, select "ENTER" and press the MULTI JOG dial to confirm the name.
   A "Saving File..." pop-up appears while the playlist name is being saved.



When saving with a different name completes, the BROWSE screen opens.

Deleting playlists

NOTE

The current playlist cannot be deleted.

1. Select the playlist that you want to delete, and open the playlist pop-up menu (See "Playlist menu operations" on page 61.)
2. Select DELETE, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.



NOTE

Press the MENU [BROWSE] button to cancel playlist deletion.

3. Press the MULTI JOG dial again to open a second confirmation pop-up message.



4. Press and hold the MULTI JOG dial to delete the selected playlist.
   A "DELETING FILE..." pop-up appears while the playlist name is being deleted.



When deleting completes, the BROWSE screen opens.

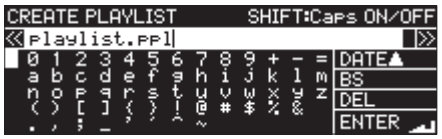
NOTE

When a playlist is deleted, the audio files themselves are not deleted. Only the information added to function as a playlist is deleted.
If you want to delete the audio files themselves, see "Deleting folders and files" on page 54.

Creating new playlists

New playlists can be created inside the "_playlists" folder.

1. On the BROWSE screen, select the "_playlists" folder or a playlist, and open the playlist pop-up menu. (See "Playlist menu operations" on page 61.)
2. Select CREATE PLAYLIST, and open the CREATE PLAYLIST screen.



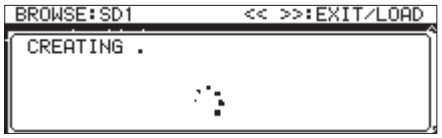
3. Input the desired playlist name.
   Use up to 31 characters.
   For details about how to input playlist names, see "Editing text" on page 71.
4. After you finish inputting the playlist name, select "ENTER" and press the MULTI JOG dial to confirm the name.
   A confirmation pop-up message will appear.



NOTE

Press the MENU [BROWSE] button to cancel playlist creation.

5. Press the MULTI JOG dial to create the new playlist.
   A "CREATING..." pop-up appears while the playlist is being created.



After creation completes, the BROWSE screen reopens.

NOTE

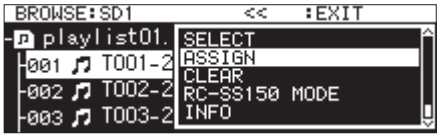
- Playlists can also be created on a computer using TASCAM Playlist Editor.
- When creating playlists using TASCAM Playlist Editor, select "playlist01" as the playlist type.
- Save playlists created using TASCAM Playlist Editor in the "_playlists" folder at the root of the medium being used.
- Use TASCAM Playlist Editor to create playlists and save them directly to media.
- When such media is first loaded by the unit, the most recently saved playlist will be loaded as the current playlist (if the PLAY AREA setting of the unit was "PLAYLIST" or is switched to "PLAYLIST").

ATTENTION

Various settings exist for playlists created in TASCAM Playlist Editor but only the playback order will be applied by this unit.

Playlist entry menu operations

When a file that has been assigned to a playlist is selected, press the MULTI JOG dial to open the playlist entry menu.



This is a menu of operations that affect files that have been assigned to playlists.

SELECT

Set the file that has been assigned to the selected playlist as the current track, and return to the Home Screen.

ASSIGN

Assign the file to the playlist at the selected position.
If the selected position already has an assigned file, it will be replaced. (See "Assigning files to playlists" on page 64.)

CLEAR

Remove the file assigned to the playlist at the selected position. (See "Clearing file assignments from playlists" on page 64.)
After clearing the assignment, the entry will become empty.

RC-SS150 MODE

Change the list style playlist assignment screen to a screen for use with a TASCAM RC-SS150.

LIST MODE

Change the playlist assignment screen for use with a TASCAM RC-SS150 to a list style screen.

INFO

Show information about the files assigned to the playlist.

NOTE

When a protected SD card is loaded in the unit, the ASSIGN and CLEAR items cannot be used. (See "SD card write-protection switches" on page 29.)

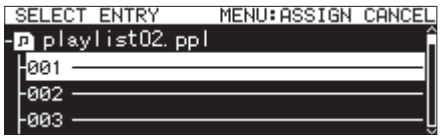
CANCEL

Do no operation on the selected playlist file and return to the playlist file menu.

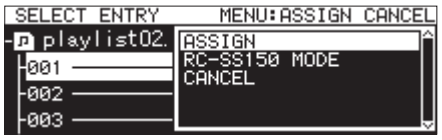
Assigning files to playlists

Use ASSIGN in the playlist entry menu to assign files to a playlist.

1. Select the entry position in the playlist that you want to assign, and open the playlist entry pop-up menu. (See "Playlist entry menu operations" on page 63.)
2. Select ASSIGN, and open the SELECT TRACK screen.



3. Select the file you want to assign, and press the MULTI JOG dial to open the pop-up file menu.



4. Select ASSIGN, and press the MULTI JOG dial to assign the file to the playlist.

NOTE

- A maximum of 100 entries can be assigned to a playlist. Flash playback, however, can only be used with 96 entries.
- For the procedures for assigning specific files to playlists, see "Assigning files to a playlist" on page 55.

Clearing file assignments from playlists

To clear files assigned to playlists, use CLEAR in the playlist file menu.

This operation clears file assignments in playlists. The files themselves are not deleted.

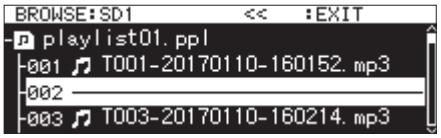
1. Select the track in the playlist that you want to clear, and open the playlist entry pop-up menu. (See "Playlist entry menu operations" on page 63.)
2. Select CLEAR, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.



NOTE

Press the MENU [BROWSE] button to cancel assignment clearing.

3. Press and hold the MULTI JOG dial to clear the assignment.
4. After clearing an assignment completes, the BROWSE screen reopens.
   After clearing the assignment, the entry will become empty.

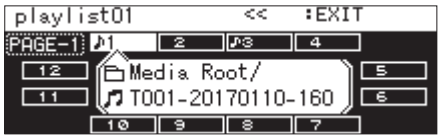


NOTE

If you want to delete the audio files themselves, see "Deleting folders and files" on page 54.

RC-SS150 MODE playlist assignment screen

This screen allows you to make playlists assignments following the layout of a TASCAM RC-SS150 (sold separately).
Turn the MULTI JOG dial to select an entry or page.



When an entry is selected, press the MULTI JOG dial to open the playlist entry menu pop-up and use the desired function.
Operation procedures are the same as when using the list format.



Press the MULTI JOG dial when the page item at the top left of the screen is selected to open a screen where you can change the page that is edited.



Turn the MULTI JOG dial to change the page.
The setting range is 1–8.
Press the MULTI JOG dial to confirm the change and return to the RC-SS150 MODE playlist assignment screen.

8 - Recording

This unit can record to SD cards and USB flash drives in the following formats.

MP3

44.1/48kHz sampling frequency, 64/128/192/256/320kbps

WAV/BWF

44.1/48/96kHz sampling frequency, 16/24-bit

The following explanations assume that a recordable SD card or USB flash drive has been loaded, necessary connections have been completed and the unit is on.

NOTE

- The maximum numbers of tracks that can be recorded and folders that can be created are as follows.

  Number of tracks: 999 maximum per media

  Number of folders: 999 maximum on each medium
- Media that are 2GB or less might not allow the recording of 999 tracks inside the root folder due to file system limitations. A maximum of 999 tracks can be recorded in subfolders. (This may differ according to use conditions.)
- When a protected SD card is loaded in the unit, recording is not possible. (See "SD card write-protection switches" on page 29.)

Unexpected power interruptions

The unit has a protection function to prevent the deletion of all recording tracks if an unexpected power interruption occurs while recording to an SD card, USB flash drive or CD. Data up to 25 seconds before the interruption will be protected.

ATTENTION

- The unit has a protection function, but all the files on the SD card or USB flash drive could be damaged or deleted due to other factors, including the characteristics of the medium, power interruption while writing to a system area or removal of the medium from the unit. For these reasons, as much as possible avoid power interruptions during recording and playback.
- This function was not designed for use with an external timer to turn off the power during recording, for example.

Selecting the input source

Select one of the following input (recording) sources.

Option	Meaning
ANALOG UNBALANCED (default)	Input from ANALOG INPUTS (UNBALANCED) L/R jacks
ANALOG BALANCED	Input from ANALOG INPUTS (BALANCED) L/R jacks
DIGITAL COAXIAL	Input from SPDIF IN jack
DIGITAL XLR	Input from AES/EBU IN jack
IF-DA2 (Dante) (appears only if IF-DA2 installed)	Input from IF-DA2 Dante interface card

Follow the procedures below to select the input source.

NOTE

The input source cannot be changed during recording.

1. Select INPUT SELECT on the REC 1 page to open the INPUT SELECT screen. (See "Menu operation procedures" on page 23.)



2. Select the input source.

   Options: ANALOG UNBALANCED (default), ANALOG BALANCED, DIGITAL COAXIAL, DIGITAL XLR, IF-DA2 (Dante) (shown only if IF-DA2 installed)

   NOTE

   - If the input source is DIGITAL COAXIAL, DIGITAL XLR or IF-DA2 (Dante) (shown only if IF-DA2 installed), but it is unlocked, "*" will appear at the end of the option.
   - If the input source is DIGITAL COAXIAL, DIGITAL XLR or IF-DA2 (Dante) and the sampling rate converter is off, this unit will synchronize clock with the input source.
3. Confirm the setting and return to the Menu Screen.

Input source display

Confirm the currently selected input source by following the procedures in "Selecting the input source" above or checking the input setting status on the recording screen.



Input source information display

NOTE

If DIGITAL XLR, DIGITAL COAXIAL or IF-DA2 (Dante) (only when IF-DA2 card installed) is selected, pop-up messages will appear under the following conditions.

- The unit is not digitally locked to the input source ("DIN UNLOCK" will appear).
- The input source is not audio ("DIN Not Audio" will appear).
- If the sampling frequency set with the SAMPLE item on the REC 3 page differs from the input source, "FS UNMATCH" will appear. If the sampling rate converter is active, however, recording will be possible even if the sampling frequency is different. (See "Using the sampling rate converter" on page 73.)

Setting left/right channel inputs separately

Left and right channel input settings can be made separately on this unit.

The screens where they can be set separately are as follows.

- INPUT LEVEL screen (See "Adjusting input signal levels" on page 68.)

1. Select the REC SET LINK item on the REC 1 page to open the REC SET LINK screen. (See "Menu operation procedures" on page 23.)



2. Select the left/right channel setting method.

Option	Meaning
OFF	Left and right channels input settings are made separately.
ON (default)	The left and right channel input settings are linked.

NOTE

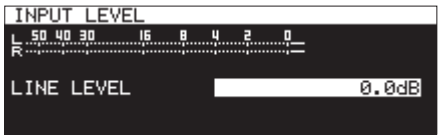
When the left and right channel settings are unlinked, if the REC SET LINK screen LINK item is changed to "ON", the right channel settings will change to match the left channel settings. If the REC SET LINK screen LINK item is reset to "OFF", the right channel will retain the same settings as the left channel.

3. Confirm the setting and return to the Menu Screen.

Adjusting input signal levels

Use the following procedures to adjust input signal levels.

1. Select INPUT LEVEL on the REC 1 page to open the INPUT LEVEL screen. (See "Menu operation procedures" on page 23.)



INPUT LEVEL screen when adjusting line level

2. Adjust the input signal levels.
   LINE LEVEL (when INPUT SELECT screen set to "ANALOG UNBALANCED" or "ANALOG BALANCED")

   Options: –inf, –54 dB, –48 dB, –42 dB, –36 dB, –30 dB, –24 dB, –20 dB, –16 dB, –12 dB, –10 dB, –8 dB, –6 dB – 0.0dB (default) – +6.0dB (0.5dB increments), +7.0dB – +18.0dB (1.0dB increments)

   DIGITAL LEVEL (INPUT SELECT screen set to "DIGITAL COAXIAL", "DIGITAL XLR" or "IF-DA2 (Dante)")

   Options: –6.0 dB – 0.0dB (default value, 0.1dB increments) – +6.0dB

NOTE

When REC SET LINK is set to "OFF" on the REC 1 page, the levels of the left and right channel inputs are adjusted separately. (See "Setting left/right channel inputs separately" on page 67.)

3. Confirm the setting and return to the Menu Screen.

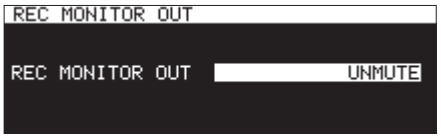
NOTE

You can use the level meters shown on the INPUT LEVEL screen to check input levels as you adjust them. Set the level so that they are as high as possible without exceeding the level meter peak levels.

Muting analog output when recording

Audio output can be muted from the analog output jacks (RCA pin and XLR balanced) when recording and when recording is paused.

1. Select REC MONITOR OUT on the REC 4 page to open the REC MONITOR OUT screen. (See "Menu operation procedures" on page 23.)



2. Set the operation mode of the REC MONITOR OUT function.

Options	Meaning
UNMUTE (default)	Audio will be output from the analog output jacks when recording and when recording is paused.
MUTE	Audio output from the analog output jacks will be muted when recording and when recording is paused.

3. Confirm the setting and return to the Menu Screen.

NOTE

This has no effect on audio output from the PHONES, AES/EBU OUT, SPDIF OUT and IF-DA2 (Dante) connectors.

Setting the recording file format

To set the recording file format, use the REC FORMAT, BACKUP/RELAY MEDIA, WAV SETTING, MP3 BITRATE and FILE TYPE items on the REC 2 page. (See "Menu operation procedures" on page 23.)

Making recording format settings

Select REC FORMAT, and open the REC FORMAT screen. (See "Menu operation procedures" on page 23.)
Set the sampling frequency and file format combination for recording.



Options:	Recording contents	
	Sampling frequency/file format	Optional functions
44k WAV	44.1kHz WAV	None
44k MP3 (default)	44.1kHz MP3	None
44k WAV16+MP3	44.1kHz WAV (16-bit) + MP3	Dual format recording function
44k WAV (BACKUP)	44.1kHz WAV	Backup recording function
44k MP3 (BACKUP)	44.1kHz MP3	
44k WAV (RELAY)	44.1kHz WAV	Relay recording function
44k MP3 (RELAY)	44.1kHz MP3	
44k WAV16+MP3(RLY)	44.1kHz WAV (16-bit) + MP3	Relay/dual format recording functions
48k WAV	48kHz WAV	None
48k MP3	48kHz MP3	None
48k WAV16+MP3	48kHz WAV (16-bit) + MP3	Dual format recording function
48k WAV (BACKUP)	48kHz WAV	Backup recording function
48k MP3 (BACKUP)	48kHz MP3	
48k WAV (RELAY)	48kHz WAV	Relay recording function
48k MP3 (RELAY)	48kHz MP3	
48k WAV16+MP3(RLY)	48kHz WAV (16-bit) + MP3	Relay/dual format recording functions
96k WAV	96kHz WAV	None

Recording option functions

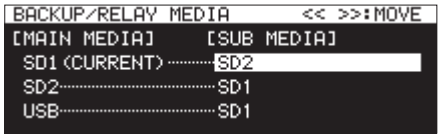
- **Simultaneous recording of files in two formats (dual format recording)**
  When an option with "WAV16+MP3" is selected, both WAV 16bit (BWF) and MP3 file formats will be simultaneously recorded.
- **Simultaneous recording to multiple media (backup recording)**
  When an option with "(BACKUP)" is selected, simultaneous recording to multiple media is enabled.
  By using this function, unplanned recording interruptions caused by media problems can be avoided.
- **Recording to multiple media in succession (relay recording)**
  When an option with "(RELAY)" is selected, recording to multiple media in succession is enabled.
  Continuous recording for long periods of time is possible using this function.
- When relay recording completes, the media used at the beginning of recording is reset as the current media.
- Files created using relay recording have an "R" added to the beginnings of their names, for example "R001_20170101-123456.wav".

NOTE

- When relay recording is enabled, an icon like "SD1→SD2" showing the current media and the next relay recording media appears at the top right of the recording screen.
- When the dual format recording function is selected, an icon like "—MP3/WAV—" showing both recording formats appears at the top right of the recording screen.
- When using dual format recording, the bit length setting for WAV files is fixed at 16-bit.
- If the BIT LENGTH was set to "24bit" on the WAV SETTING screen, it will automatically be changed to 16bit. (See "WAV file settings" on page 70.)

Setting the second medium for backup and relay recording

Select BACKUP/RELAY MEDIA, and open the BACKUP/RELAY MEDIA screen. (See "Menu operation procedures" on page 23.)
Set the secondary media to be used for backup and relay recording when each medium is current.



- Select the SD1 item, and set the second medium (SUB MEDIA) to be used for backup and relay recording when it is the current medium (MAIN MEDIA).

  Options: SD2 (default), USB

- Select the SD2 item, and set the second medium (SUB MEDIA) to be used for backup and relay recording when it is the current medium (MAIN MEDIA).

  Options: SD1 (default), USB

- Select the USB item, and set the second medium (SUB MEDIA) to be used for backup and relay recording when it is the current medium (MAIN MEDIA).

  Options: SD1 (default), SD2

NOTE

- "CD" cannot be selected as the backup or relay recording medium. Moreover, if the current medium is "CD", the REC 2 page BACKUP/RELAY MEDIA item will be shown as "-------".
- The medium with "(CURRENT)" after its "[MAIN MEDIA]" name is the current medium now.
- A folder with the same file path as the current media will be created on the secondary media and used for backup and relay recording.

WAV file settings

Select WAV SETTING, and open the WAV SETTING screen. (See "Menu operation procedures" on page 23.)



- Select FORMAT TYPE, and set the file format to use for WAV recording.

  Options: WAV (default), BWF

- Select BIT LENGTH, and set the bit length to use for WAV recording.

  Options: 16bit (default), 24bit

NOTE

- This item does not appear when the current medium is "CD".
- When dual format recording is on, "24bit" cannot be selected.

MP3 file bit rate setting

Select MP3 BITRATE, and open the MP3 BITRATE screen. (See "Menu operation procedures" on page 23.)
Set the bit rate to use for MP3 format recording.



Options: MP3-64kbps, MP3-128kbps, MP3-192kbps (default), MP3-256kbps, MP3-320kbps

Setting the recording file type

Select FILE TYPE, and open the FILE TYPE screen. (See "Menu operation procedures" on page 23.)
Set the recording file type.



Option	Meaning
STEREO (default)	Save the left and right channel input sounds to a stereo file.
MONO(MIX)	Mix the left and right channel input sounds and save the mix as a mono file.
MONO(2ch)	Save the left and right channel input sounds to two separate mono files.

NOTE

- "MONO(2ch)" is not supported for MP3 files.
- When the current medium is CD, the option shown is fixed to "STEREO".
- Recording to CDs is not possible.
- Files recorded using the MONO(2ch) setting will have "_01" and "_02" added to the ends of their file names.
  - File name_01.wav
  - File name_02.wav

Monitoring input signals

Press the RECORD [TRACK INC] button (or remote control RECORD button) to put the unit in recording standby. The RECORD [TRACK INC] and PAUSE [CALL] buttons will lights and the input signals will be output from this unit's various outputs (headphones, analog balanced and unbalanced jacks, and digital connectors). The meters at the top of the Home Screen will also show input levels.

Press the STOP button (or remote control STOP button) to end recording standby.

TIP

If you do not plan to record, but just want to monitor the input signals, without setting the current media, press the RECORD [TRACK INC] button (or remote control RECORD button).

The RECORD [TRACK INC] button will blink.

To stop monitoring the input signals, press the STOP button (or remote control STOP button).

Basic recording operations

Make the following settings (input source selection, recording file format, sampling rate conversion on/off, input level adjustments) before recording.

Entering recording standby from a stopped state:

Press the RECORD [TRACK INC] button (or remote control RECORD button). (The RECORD [TRACK INC] and PAUSE [CALL] buttons light.)

Starting recording from recording standby:

Press the main unit or remote control PLAY button.

Pausing recording:

Press the PAUSE [CALL] button (or remote control F1 button).

Stopping recording:

Press the main unit or remote control STOP button.

Recording stops, recording data are written and audio files are created.

NOTE

- On the FILE NAME screen, you can set the name that is automatically given to audio files when they are created. (See "Setting the recording file format" on page 69.)
- The maximum file size for each track is 4 GB.
- Recorded tracks are created in the current folder. (See "Folder operations" on page 51.)

ATTENTION

"WRITING FILE..." appears while recording data is being written to the current media. During this time, do not move the unit, turn it off, or remove the current media. Doing so could prevent the recording data from being properly written.

Setting the file name format

You can select the format of names given to files automatically during recording.

1. Select the FILE NAME item on the REC 3 page to open the FILE NAME screen. (See "Menu operation procedures" on page 23.)



2. Set the file name format.

Option	Meaning
DATE/TIME (default)	The date and time of the unit's built in clock are used for the file name.
USER01	The text set by the user (up to 8 characters) is used for the file name.
USER02	
USER03	
USER04	The text set by the user (up to 12 characters) is used for the file name.
USER05	

3. If you selected "DATE/TIME" or USER01 – USER05 and do not want to edit the file name, press the MULTI JOG dial to return to the menu.

   If you selected USER01 – USER05 and you want to edit the file name, press the ►► [FADE] button to open the rename screen.



4. Edit the file name.
5. After you finish editing, turn the MULTI JOG dial and select "ENTER". Press the MULTI JOG dial to confirm the edited text and return to the FILE NAME screen.
6. Press the MULTI JOG dial again to return to the menu screen.

Editing text

Use these operations to edit text.

Changing the cursor (editing point) position

Press the ◄◄ [EDIT] and ►► [FADE] buttons.

Changing the character input:

Turn the MULTI JOG dial.

Inputting the selected character at the cursor (editing) position:

Press the MULTI JOG dial.

Leaving a single space open:

Turn the MULTI JOG dial to select a blank space at the left end of any row, and press the MULTI JOG dial.

Deleting a character:

Turn the MULTI JOG dial to select "DEL" (to delete a character to the right of the cursor) or "BS" (to delete a character to the left of the cursor), and press the MULTI JOG dial.

Deleting all characters to the right of the cursor:

Turn the MULTI JOG dial to select "DEL", and press and hold the MULTI JOG dial.

Deleting all characters to the left of the cursor:

Turn the MULTI JOG dial to select "BS", and press and hold the MULTI JOG dial.

Switching between upper and lower case:

Press the SHIFT button.

Canceling edits:

Press the MENU [BROWSE] button.

Inputting the date.

Turn the MULTI JOG dial to select "DATE ▲".

Press the MULTI JOG dial to input the date and time of the built-in clock in "yyyy-mm-dd" format.

On the RENAME FOLDER screen, if a folder with the same name already exists, an underscore (_) followed by a number that has not already been used will be added to the end of the name.

ATTENTION

- You can connect a USB flash drive or SD card to a computer and edit file names from the computer. Doing so, however, could cause the order of the files to change when played back on the unit.
- On a text input screen, characters other than half-width (normal) English letters, numerals and symbols will not be shown. If text includes characters other than half-width English letters, numerals and symbols, opening a text input screen will delete them.
- The following symbols and punctuation marks cannot be used in text.

  / : * ? " " < > |

NOTE

You can also use a USB keyboard to edit characters. (See "Using the keyboard to input names and values" on page 120.)

Character input limit

The white background in the character field indicates the maximum number of characters. The gray background shows characters in excess of the maximum number. These will be discarded when you select "Enter" and confirm the input text.

Applying dithering to recording

When recording in 16-bit WAV format the dynamic range is about 96.3 dB.

You can set how the unit processes the quiet sounds above the 16-bit range that are lost (quantization noise) when it records.

1. Select DITHER on the REC 3 page to open the DITHER screen. (See "Menu operation procedures" on page 23.)



2. Set the dither mode.

Option	Meaning
OFF (default)	No dithering is conducted. Unusable quantization bits (17 and higher) are cut, while the 16th bit and below are recorded as is.
DITHER	Random noise (white noise) that is half the size of the smallest quantization bit (16th bit) is added, generating fluctuation in the border between the 16th and 17th bits and suppressing quantization noise.
NOISE SHAPE	This is linear noise shaping. Quantization noise itself is fed back and differentiated to suppress the noise and expand the dynamic range.

3. Confirm the setting and return to the Menu Screen.

Using the sampling rate converter

This unit has a built-in sampling rate converter, so it is possible to record with a sampling frequency that is different from the digital input sources.
When the sampling rate converter is on, the SRC icon appears in the recording function activation status area on the recording screen.

1. Select SRC on the REC 3 page to open the SRC screen. (See "Menu operation procedures" on page 23.)



2. Turn the sampling rate converter (SRC) on or off.

   Options: OFF (default), ON

3. Confirm the setting and return to the Menu Screen.

NOTE

- The sampling rate converter function can also be turned on/off using a USER button that has SRC assigned to it.
- If you try to record a digital signal through a digital input connector with the sampling frequency that is different from the one set on the SAMPLING RATE screen when the sampling rate converter (SRC) is off, a "-- DIN ERROR -- Digital input is illegal." message will appear. (See "Setting the recording file format" on page 69.)
- The sampling rate converter operation range is 32–192 kHz.

Setting the pause mode

You can set the unit to either increment the track number (create a new file) or not when you switch it from recording to recording standby (pausing).

1. Select PAUSE MODE on the REC 3 page to open the PAUSE MODE screen. (See "Menu operation procedures" on page 23.)



2. Set the pause mode.

Option	Meaning
SAME TRACK (default)	Track number not incremented when switching from recording to recording standby.
NEW TRACK	Track number incremented when switching from recording to recording standby.

3. Confirm the setting and return to the Menu Screen.

ATTENTION

This cannot be changed when recording or in recording standby.

Skipping recording standby before recording (direct recording)

Recording can be started without entering recording standby first.
When this function is on, pressing the RECORD button will start recording immediately.

1. Select DIRECT REC on the REC 3 page to open the DIRECT REC screen. (See "Menu operation procedures" on page 23.)



2. Turn the direct recording function on or off.

   Options: OFF (default), ON

3. Confirm the setting and return to the Menu Screen.

Recording a few seconds in advance (pre-recording)

Using the pre-recording function, the built-in memory can capture up to 5 seconds of the signal input when the unit is in recording standby before recording is started normally.

1. Select PRE REC on the REC 4 page to open the PRE REC screen. (See "Menu operation procedures" on page 23.)



2. Set the length of pre-recording.

   Options: OFF (default), 1sec, 2sec, 3sec, 4sec, 5sec

3. Confirm the setting and return to the Menu Screen.

NOTE

If the amount of time in recording standby is less than the set time, that amount of time is recorded instead.

Using the synchronized recording function

When the synchronized recording function is on, recording will start automatically when a signal is input that exceeds the sync level set in advance. After starting recording, recording will automatically pause if the signal stays below the sync level for the set STOP TIME.

Synchronized recording settings

Select SYNC REC on the REC 4 page to open the SYNC REC screen. Use the SYNC REC screen to make synchronized recording settings. (See "Menu operation procedures" on page 23.)



Turning the synchronized recording function on/off

Select the MODE item, and turn the synchronized recording function on/off.

Options: OFF (default), ON

NOTE

- The synchronized recording function on/off setting can also be changed using a USER button that has SYNC REC assigned to it.
- When the synchronized recording function is on, the SYNC REC icon appears in the recording function activation status area on the recording screen.

Setting the synchronized recording function sync level

Select LEVEL, and set the synchronized recording sync level.

Options: –72 dB, –66 dB, –60 dB, –54 dB, –48 dB, –42 dB (default), –36 dB, –30 dB, –24 dB

Setting the delay before recording starts

Select DELAY, and set the delay until recording starts after a signal that exceeds the sync level is detected (in 10msec (0.01sec) increments).

By setting this to a negative value, recording can be started before signal detection (using the memory buffer).

Options: –1000msec – 0msec (default, 10msec increments) – +1000msec

Setting the condition to return to recording standby

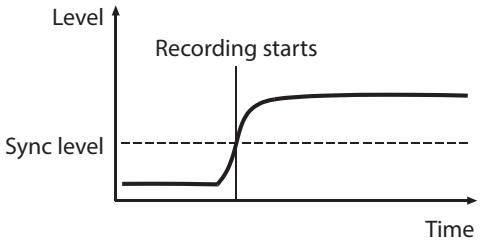
Select STOP TIME, and set the amount of time until recording standby resumes after the signal goes below the sync level.

Options: INF, 5sec (default) – 30sec

Sync recording operation overview

When the sync recording function is on and the unit is in recording standby, recording will start and stop automatically in response to input source levels.

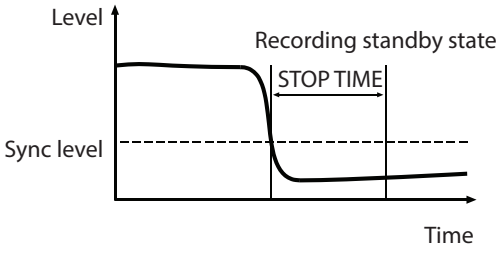
- When a signal higher than the sync level is input, recording will start automatically. However, if a signal lower than the sync level does not continue for at least one second after the unit is put into recording standby, recording will not start automatically even though input is detected.



NOTE

In the above example, DELAY is set to "0 msec (default)". By changing the DELAY item, you can change the point when recording starts.

- During recording, when the signal stays below the sync level for the amount of time set with the STOP TIME item, recording will automatically pause.



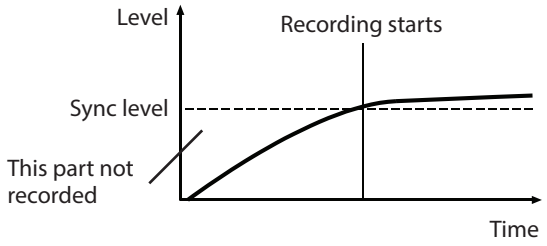
NOTE

If STOP TIME is set to "INF", recording will not pause automatically even if the signal stays below the sync level.

- To disable sync recording, set the SYNC REC screen MODE item to "OFF". (See "Synchronized recording settings" on page 74.)

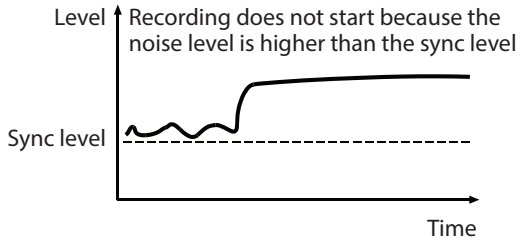
If the sync level is too high

If the sync level is set too high, the beginnings of tracks that start quietly might not be recorded, for example.



If the sync level is too low

When in recording playback, if the source has a high noise level that exceeds the sync level, sync recording will not start.



Incrementing track numbers during recording

Track numbers can be incremented manually or automatically when set conditions are met during recording. Each time the track number is incremented, a new audio file is created.

NOTE

- When new tracks are created, incremental numbers are added to the end of each file name.
- If the file name of a track to be created would be the same as that of an existing file, the number will be incremented until the new file has a unique name.

Incrementing track numbers manually

You can press the RECORD [TRACK INC] button (or remote control RECORD button) during recording to increment the track number. You cannot, however, create a track that is less than four seconds long.

NOTE

If tracks are recorded in WAV format, you can also divide and combine them after recording using the editing functions. (See "Dividing tracks (DIVIDE)" on page 81 and "Combining tracks (COMBINE)" on page 82.)

ATTENTION

Depending on the SD card or USB flash drive, incrementing tracks repeatedly in a short amount of time when recording in MP3 format could cause a "RECORD Error Buffer overflow" error message to appear and recording to stop. To prevent this, leave some time between each incrementation.

Incrementing track numbers automatically

Use the menu to select the automatic track incrementation mode and make specific settings.

When the automatic track incrementation function is on, the A.TRACK icon appears in the recording function activation status area on the recording screen.

Automatic track incrementation function settings can be changed anytime, even after starting recording.

NOTE

If tracks are recorded in WAV format, you can also divide and combine them after recording using the editing functions. (See "Dividing tracks (DIVIDE)" on page 81 and "Combining tracks (COMBINE)" on page 82.)

1. Select the AUTO TRACK item on the REC 4 page to open the AUTO TRACK screen. (See "Menu operation procedures" on page 23.)



2. Set the automatic track incrementation mode.

Option	Meaning
OFF (default)	Tracks will not be automatically incremented.
LEVEL	The track number will be incremented when the signal stays below the automatic track level (AUTO TRACK screen LEVEL setting) for at least two seconds, and then the signal exceeds the level.
DD	When a CD or MD is being recorded through the S/PDIF input, track numbers will be incremented when track divisions are detected based on track data included in the S/PDIF signal. If the S/PDIF signal does not include track data (because it is not from a CD or MD) or if recording AES/EBU input or an analog input, however, LEVEL mode will be used and tracks will be implemented in response to the input level.
SIZE	The track number will be incremented when the file reaches a set size.
TIME	The track number will be incremented at set time intervals.

3. The setting items differ depending on the set automatic track incrementation mode.

LEVEL mode selected



Select the LEVEL item, and set the automatic track incrementation level.

Options: –72 dB, –66 dB, –60 dB, –54 dB (default), –48 dB, –42 dB, –36 dB, –30 dB, –24 dB

Select DELAY, and set the delay until incrementation after a signal is detected that exceeds the automatic track incrementation level (10 msec = 0.01 sec).

By setting this to a negative value, recording can be started before signal detection (using the memory buffer).

Options: –1000 msec – 0 msec (default, 10 msec increments) – +1000 msec

DD mode selected



Options: –1000 msec – 0 msec (default, 10 msec increments) – msec

SIZE mode selected



Options: 640MByte, 1GByte, 2GByte (default), 4GByte

TIME mode selected



Options: 1min – 5min (default) – 10min, 15min, 30min, 1hour, 2hour, 6hour, 8hour, 12hour, 24hour

NOTE

The auto track function setting can also be changed using the USER button that has AUTO TRACK assigned to it.

Adding marks manually when recording

You can manually add a mark to a file where you want it when recording, allowing you to find that point again quickly during playback.

NOTE

- Marks cannot be added manually when the current medium is "CD".
- Moving between marks is only possible when stopped, playing back or in playback standby. (See "Moving to marks" on page 95.)

Adding marks when recording

When recording or in recording standby and the Home Screen is open, press the MULTI JOG dial to add a mark at that point.

The number of the added mark will be shown on a pull-up at the bottom of the display.



NOTE

- Marks added to files by this unit during recording are stored in the files themselves. These marks can be used when playing back the file using software or equipment that supports the BWF format.
- The maximum number of marks that can be added to a file is 99. The mark data is stored in the file.
- You can also add marks when the unit is stopped, playing back or in playback standby. (See "Adding marks" on page 94.)
- A mark added manually will be named "MARKxx*".

  * The "xx" is a number given to all marks that is incremented in order.

Adding marks automatically when recording

By turning the auto mark function on, you can have the unit add marks automatically when audio level overloads occur or when synchronization errors occur because external clock is lost. Using this function, you can quickly search for points where problems occurred during recording.

When the automatic mark function is on, the A.MARK icon appears in the recording function activation status area on the recording screen.

1. Select the AUTO MARK item on the REC 4 page to open the AUTO MARK screen. (See "Menu operation procedures" on page 23.)



2. Set the following automatic mark function settings.

OVER

Add a mark whenever the audio level reaches 0 dB (full bit).

Options: OFF (default), ON

TIME

Set a time interval for adding marks automatically.

Options: OFF (default), 1min, 10min, 15min, 30min, 1hour

UNLOCK

Add a mark whenever synchronization with the external clock is lost.

Options: OFF, ON (default)

REC

Add a mark whenever recording starts if the pre-recording function is on.

Options: OFF (default), ON

BOF

Add a mark when a buffer overflow occurs.

Options: OFF, ON (default)

NOTE

When the AUTO MARK screen is open, use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor between setting items.

3. When the cursor is at the BOF item, press the MULTI JOG dial to confirm the setting and return to the menu.

NOTE

- The automatic mark function is disabled when the current medium is "CD". In this case, the REC 4 page AUTO MARK item will appear as "-------".
- After an "OVER" or "UNLOCK" mark is added, the same type of mark will not be added again until at least 10 seconds have passed.
- When an "OVER" occurs, a mark named "OVERxx*" will be added.
- For "TIME", a mark named "TIMExx*" will be added.
- For "UNLOCK", a mark named "UNLKxx*" will be added.
- For "REC", a mark named "RECxx*" will be added.
- For "BOF", a mark named "BOFxx*" will be added.

* The "xx" is a number given to all marks that is incremented in order.

Recording duration

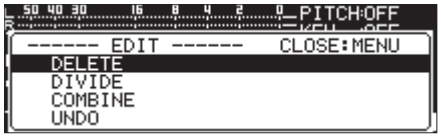
The table below shows maximum recording times by file format on SD/SDHC/SDXC cards and USB flash drives of different capacities (in hours and minutes).

File format (capacity when recording)			SD/SDHC/SDXC card or USB flash drive capacity					
			8 GB	32 GB	64 GB	128 GB	256 GB	512 GB
WAV/BWF 16bit (STEREO/MONO (2ch))		44.1kHz	12 hours 35 minutes	50 hours 23 minutes	99 hours 22 minutes	197 hours 37 minutes	393 hours 45 minutes	805 hours 22 minutes
		48kHz	11 hours 34 minutes	46 hours 17 minutes	91 hours 18 minutes	181 hours 34 minutes	361 hours 46 minutes	739 hours 55 minutes
		96kHz	5 hours 47 minutes	23 hours 08 minutes	45 hours 39 minutes	90 hours 47 minutes	180 hours 53 minutes	369 hours 57 minutes
WAV/BWF 24bit (STEREO/MONO (2ch))		44.1kHz	8 hours 23 minutes	33 hours 35 minutes	66 hours 15 minutes	131 hours 44 minutes	262 hours 30 minutes	536 hours 54 minutes
		48kHz	7 hours 42 minutes	30 hours 51 minutes	60 hours 52 minutes	121 hours 02 minutes	241 hours 10 minutes	493 hours 17 minutes
		96kHz	3 hours 51 minutes	15 hours 25 minutes	30 hours 26 minutes	60 hours 31 minutes	120hours 35 minutes	246 hours 38 minutes
MP3 (STEREO/ MONO (2ch))	64kbps	44.1kHz / 48kHz	About 277 hours	About 1111 hours	About 2222 hours	About 4444 hours	About 8888 hours	About 17776 hours
	128kbps	44.1kHz / 48kHz	About 138 hours	About 555 hours	About 1111 hours	About 2222 hours	About 4444 hours	About 8888 hours
	192kbps	44.1kHz / 48kHz	92 hours 35 minutes	About 370 hours	About 740 hours	About 1480 hours	About 2960 hours	About 5920 hours
	256kbps	44.1kHz / 48kHz	69 hours 26 minutes	About 277 hours	About 555 hours	About 1111 hours	About 2222 hours	About 4444 hours
	320kbps	44.1kHz / 48kHz	55 hours 33 minutes	About 222 hours	About 444 hours	About 888 hours	About 1776 hours	About 5332 hours

- The recording times shown above are estimates. They might differ depending on the SD/SDHC/SDXC card or USB flash drive in use.
- The recording times shown above are not continuous recording times, but rather they are the total possible recording times for the SD/SDHC/SDXC card or USB flash drive.
- If recorded using the MONO (MIX) setting, maximum recording times will be about double those above.
- Recording using dual format (WAV16+MP3) settings, will have shorter recording times than WAV/BWF16bit (STEREO) recording.

Edit menu operations

Press the ◄◄ [EDIT] button while pressing the SHIFT button to open the edit menu pop-up.



Turn the MULTI JOG dial to select the desired operation, and press the MULTI JOG dial to execute it as follows.

NOTE

When a protected SD card is loaded in the unit, the following operations are not possible. (See "SD card write-protection switches" on page 29.)

DELETE

Delete the selected track. (See "Deleting tracks (DELETE)" on page 80.)

DIVIDE

Divide the selected track. (See "Dividing tracks (DIVIDE)" on page 81.)

COMBINE

Combine the selected tracks. (See "Combining tracks (COMBINE)" on page 82.)

UNDO

Undo an edit menu operation. (See "Undoing edit menu operations (UNDO)" on page 83.)

Deleting tracks (DELETE)

Tracks shown on the Home Screen can be deleted from USB flash drives and SD cards.

This is only possible when the playback mode is set to "CONTINUE".

1. Select the track to delete, and press the ◄◄ [EDIT] button while pressing the SHIFT button to open the edit menu pop-up. (See "Edit menu operations" on page 80.)
2. Select DELETE, and press the MULTI JOG dial.
   The following pop-up message will appear.



NOTE

Press the MENU [BROWSE] button to cancel deletion.

3. Press the MULTI JOG dial.
   A second confirmation pop-up message will appear.
4. Press and hold the MULTI JOG dial to delete the selected track from the USB flash drive or SD card.
   A "Deleting Track..." pop-up, for example, appears while the track is being deleted.

NOTE

Immediately after deleting a file, you can undo the deletion. (See "Undoing edit menu operations (UNDO)" on page 83.)

Dividing tracks (DIVIDE)

A recorded track can be divided into two tracks at a specified position.

This is only possible when the playback mode is set to "CONTINUE".

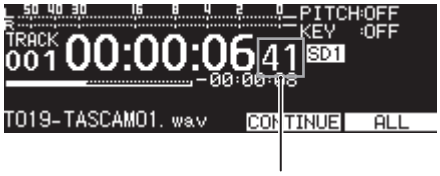
ATTENTION

- Only tracks in WAV format can be divided. Tracks in MP3 or AAC formats cannot be divided.
- The original track does not remain after division.

NOTE

The division operation can be undone immediately after division. (See "Undoing edit menu operations (UNDO)" on page 83.)

1. Select the track to divide, and press the ◄◄ [EDIT] button while pressing the SHIFT button to open the edit menu pop-up. (See "Edit menu operations" on page 80.)
2. Turn the MULTI JOG dial to select the DIVIDE item.
3. Press the MULTI JOG dial to open the Home Screen.
   Division rehearsal mode becomes active, and the TRACK display mode on the Home Screen shows 10msec units for the track elapsed time. The PLAY and PAUSE [CALL] buttons on the main unit also blink.



10msec increments

4. Use the scrub playback function to set the division point accurately. Turn the MULTI JOG dial to scrub playback and move to the division point.
5. After finding the division point, press the MULTI JOG dial.
   A confirmation pop-up message will appear.

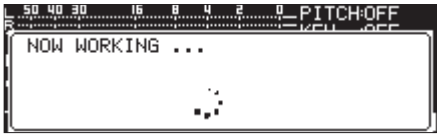


   Press the MENU [BROWSE] button to change the division point.
   When division rehearsal mode becomes active again, repeat the procedure from step **3**.
   Proceed to the next step (**6**) to execute the division.

NOTE

- After dividing, two new tracks with "_a" and "_b" added to the end of the original track name are created.
  Examples:
  Track name before division
  T001-20170101-123456.wav
  Track names after division
  T001-20170101-123456_a.wav
  T001-20170101-123456_b.wav
- If the edited track was assigned to a playlist, that playlist will become unplayable.
  Delete it from the playlist on the PLAYLIST EDIT screen.

6. Press the MULTI JOG dial to divide the track.
   A "NOW WORKING..." pop-up appears while the item is being divided.



Combining tracks (COMBINE)

Two recorded tracks can be the combined into one track.
This is only possible when the playback mode is set to "CONTINUE".

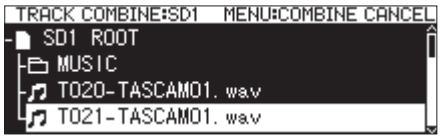
ATTENTION

- Only tracks in WAV format can be combined. Tracks in MP3 or AAC formats cannot be combined.
- Two tracks cannot be combined if their sampling frequencies, channel counts or file formats differ.
- A track cannot be combined with itself.
- The original tracks do not remain after being combined.

NOTE

The combine operation can be undone after combining. (See "Undoing edit menu operations (UNDO)" on page 83.)

1. Select a track to combine, and press the ◄◄ [EDIT] button while pressing the SHIFT button to open the edit menu pop-up. (See "Edit menu operations" on page 80.)
2. Turn the MULTI JOG dial to select the COMBINE item.
3. Press the MULTI JOG dial to open the TRACK COMBINE screen where you can choose the other track to combine.



4. Turn the MULTI JOG dial to select the track to combine, and press the MULTI JOG dial to open the file pop-up menu.
5. Select the SELECT item, and press the MULTI JOG dial.
   After a confirmation pop-up appears, the PLAY and PAUSE [CALL] buttons on the main unit blink and a four-second interval before and after the combination point plays back repeatedly.



   Press the MENU [BROWSE] button to cancel combine.
   When the TRACK COMBINE screen reopens, repeat the procedure from step **4**.

NOTE

- Combining creates a track with a name that links both original track names.
  Example:
  Track names before combining
  T001-20170101-123456.wav
  T002-20170101-234501.wav
  Track name after combining
  T001-20170101-123456_T002-20170101-234501.wav
- If the edited file was assigned to a playlist, that playlist will become unplayable. Delete it from the playlist on the PLAYLIST EDIT screen.

6. Press the MULTI JOG dial to combine the tracks.
   A pop-up window appears while combining.

Undoing edit menu operations (UNDO)

Track division, combination and deletion operations in the edit menu can be undone immediately after they are executed. Moreover, immediately after a folder or file is deleted on the BROWSE screen, deletion can be undone.
This is only possible when the playback mode is set to "CONTINUE".

NOTE

When using the undo function, the track selected on the Home Screen before opening the edit menu does not matter.

1. Press the ◄◄ [EDIT] button while pressing the SHIFT button to open the edit menu pop-up. (See "Edit menu operations" on page 80.)
2. Turn the MULTI JOG dial to select the UNDO item.
3. Press the MULTI JOG dial.
   A confirmation pop-up message will appear.



4. Press the MULTI JOG dial to undo.
   A "NOW WORKING..." pop-up message appears while undoing.



When undoing completes, the Home Screen opens.

NOTE

- Press the MENU [BROWSE] button to cancel undoing.
- If there are no file operations that can be undone, "CAN'T UNDO" appears in a pop-up warning message.

Converting and copying audio CD tracks

This explains how to convert audio CD format tracks on a CD to MP3 or WAV format files and write them to the selected medium (USB flash drive/SD card).

In the following procedures, we assume that "CD" is selected as the current medium and that the CD that contains the files to be copied and the medium to which they are to be copied are loaded in the unit.

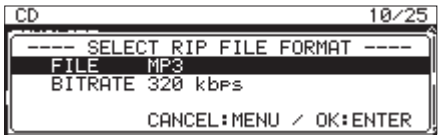
NOTE

- You cannot copy to a write-protected SD card. (See "SD card write protection" on page 10.)
- Press the MENU [BROWSE] button or select the PREVIOUS STEP item in the pull-up menu to return to the previous step.

1. Select the RIP TO MEMORY item on the CD page. (See "Menu operation procedures" on page 23.)
2. Press the MULTI JOG dial to open a pop-up with destination media options for file conversion and copying.



3. Turn the MULTI JOG dial to select the copy destination medium.
4. Press the MULTI JOG dial to open a pop-up with format options for writing the CD-R/CD-RW disc.



NOTE

An error message will appear if the selected medium is not loaded.

5. Turn the MULTI JOG dial to select the file formats to use on the selected medium.

FILE

Set the file format.

Options: MP3, WAV, BWF

BITRATE

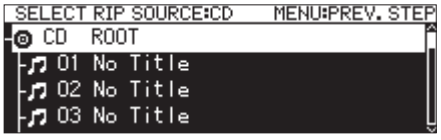
Set the MP3 format bit rate.

Options: 64kbps, 128kbps, 192kbps, 256kbps, 320kbps

NOTE

The sampling frequency used to record files to the selected medium is fixed at 44.1 kHz.

6. After completing all settings, press the MULTI JOG dial to open the SELECT RIP SOURCE screen.



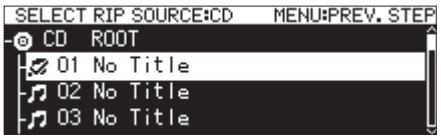
7. Select the tracks to copy.

Select the source file, and press the MULTI JOG dial to open the pop-up file menu.



8. Select the SELECT/UNSELECT item in the file menu, and press the MULTI JOG dial.

A check (✔) is added to selected files.



Repeat this operation to select multiple files.

To deselect the selected file, press the MULTI JOG dial again to open the pop-up file menu.

Then, select the SELECT/UNSELECT item, and press the MULTI JOG dial.

NOTE

If the total size of the files to be copied exceeds the remaining capacity of the selected medium or if the number of tracks or folders exceed system limits, a corresponding "No Free Space", "Track limit reached." or "Folder limit reached." pop-up message will appear.

If this occurs, press the MENU [BROWSE] button to close the pop-up message, and reduce the total copy source size or number before selecting the NEXT STEP item.

9. After selecting all the files to copy, press the MULTI JOG dial to open the pop-up file menu.

10. Select the NEXT STEP item in the file menu, and press the MULTI JOG dial.



11. The RIP TARGET SELECT screen where you can select the write destination (target) opens.

12. Turn the MULTI JOG dial to select where you want to write the data (the target).

If the medium already has a folder structure, move on the BROWSE screen to where you want to write the content.

The folders and files will be written to the position indicated by "RIP HERE".



13. After selecting the write position, select the NEXT STEP item in the file menu, and press the MULTI JOG dial.

A confirmation pop-up message will appear.



14. Press the MULTI JOG dial to start writing to the selected medium.



When track writing completes, the CD menu will reopen.

Turning the timer event function on/off

Timer events allow recording, playback, downloading and other operations to be conducted automatically at set times.

1. Select TIMER EVENT on the GENERAL page to open the TIMER EVENT screen. (See "Menu operation procedures" on page 23.)



2. Enable or disable the timer event function.

Option	Meaning
OFF (default)	This disables the timer event function.
ON	This enables the timer event function.

3. Confirm the setting and return to the Menu Screen.

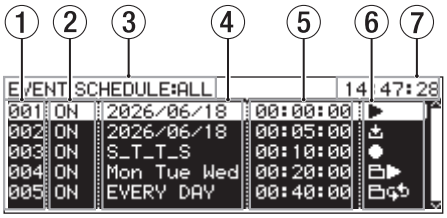
NOTE

- The icon appears on the Home Screen when the timer event function is on.
- Timer event functions cannot be used when PLAY AREA is set to "PLAYLIST" or when the current medium is set to "CD".
- Timer event list settings data is saved on the current medium.

Opening the timer event list screen

The timer event list screen shows the timer events that will be automatically executed at set times and allows you to work with them.

Select TIMER EVENT LIST on the GENERAL page to open the timer event screen. (See "Menu operation procedures" on page 23.)



① Number

This shows the timer event number.

② ON/OFF status

This shows whether a timer event will be executed (ON) or not (OFF).

③ SCHEDULE status

Events in the designated range are shown.

Use the timer event list menu to set the display range. (See "Timer event list menu operations" on page 87.)

Status	Meaning
ALL	All events shown
TODAY	Only today's events shown
YYYY/MM/DD (year/month/day)	Events for the set date shown Example: 2026/08/30

④ Event execution date/day

This shows the date or day the event will be executed.

- Date

  Example: 2026/08/30

  Events that repeat every month will be shown like "2026/**/30".
- Day

  Events set for 3 days or less will be shown like "Mon/Tue/Wed".

  Events set for 4 days or more will be shown like "_M__TFS" with just the first letters of the days.
- Every day

  "EVERY DAY" will be shown.

⑤ Event execution time

This shows the time the event will be executed.

⑥ TYPE indicator

Icons are shown for different event types.

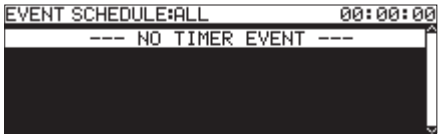
Icon	Meaning
	File playback
	Repeat file playback
	Folder playback
	Folder repeat playback
	Record
	Stop
	Download (from an FTP server)
	Delete before downloading (after all audio files in the current folder are deleted, download files from the FTP server)

⑦ Current time display (hour: minute: second)

This shows the current time of the built-in clock.

NOTE

If no events have been added, the screen will appear as shown below.



Timer event list menu operations

Select the desired timer event on the timer event list screen, and press the MULTI JOG dial to open the timer event list pop-up menu.



Turn the MULTI JOG dial to select the desired operation, and press the MULTI JOG dial to execute it as follows.

SET TO ON/SET TO OFF

Set whether a timer event will be executed (ON) or not (OFF).

EDIT EVENT

Open the EDIT EVENT screen for the selected timer event. (See "Editing timer events" on page 88.)

CREATE NEW EVENT

Create a new timer event. (See "Creating new timer events" on page 92.)

DELETE

Delete the selected timer event. (See "Deleting timer events" on page 92.)

DELETE ALL

Delete all added timer events. (See "Deleting all timer events" on page 93.)

SHOW ALL

Show all added timer events.

SHOW TODAY

Show only timer events for today.

SHOW SPECIFIED DATE

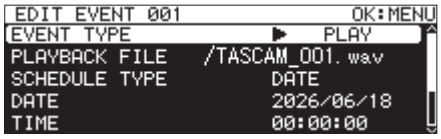
Show only timer events for a specified date.

CANCEL

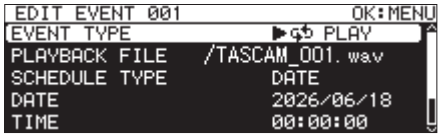
Close the event list menu.

Editing timer events

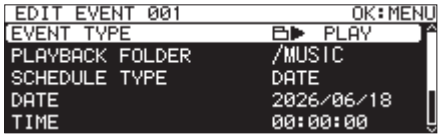
Select EDIT EVENT, and open the EDIT EVENT screen.



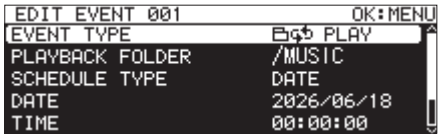
When "PLAY" selected for EVENT TYPE



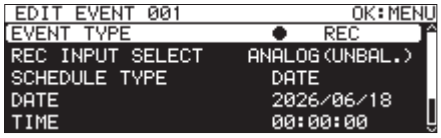
When "REPEAT PLAY" selected for EVENT TYPE



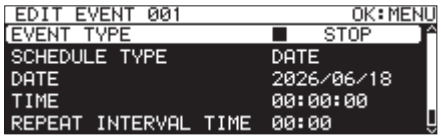
When "FOLDER PLAY" selected for EVENT TYPE



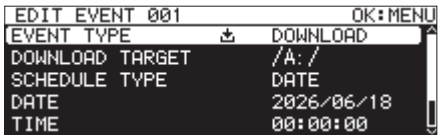
When "REPEAT FOLDER PLAY" selected for EVENT TYPE



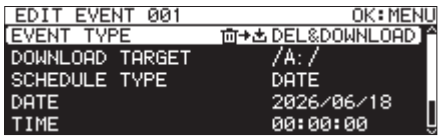
When "REC" selected for EVENT TYPE



When "STOP" selected for EVENT TYPE



When "DOWNLOAD" selected for EVENT TYPE



When "DEL&DOWNLOAD" selected for EVENT TYPE

Press the MENU [BROWSE] button to confirm the contents and return to the event list screen.

Turn the MULTI JOG dial to select the desired item, and press the MULTI JOG dial to work with it as follows.

EVENT TYPE

Set/view the timer event that will be executed automatically at the set time. (See "Setting the event type" on page 89.)

PLAYBACK FILE

If the EVENT TYPE setting is "▶ PLAY" or "▶↻ PLAY", the PLAYBACK FILE item will appear on the EDIT EVENT screen. Use this item to set/view the file that will be played back automatically at the set time. (See "Selecting files for playback" on page 89.)

PLAYBACK FOLDER

If the EVENT TYPE screen setting is "🗀▶ PLAY" or "🗀↻ PLAY", the PLAYBACK FOLDER item will appear on the EDIT EVENT screen. Use this item to set/view the folder that will be used for playback automatically at the set time.

REC INPUT SELECT

If the EVENT TYPE setting is "REC", the REC INPUT SELECT item will appear on the EDIT EVENT screen. Use this item to set/view the input that will be used to automatically record at the set time. (See "Selecting the input to use when recording" on page 90.)

DOWNLOAD TARGET

If the EVENT TYPE setting is "DOWNLOAD" or "DEL&DOWNLOAD", the DOWNLOAD TARGET item will appear on the EDIT EVENT screen. Use this item to set/view the folder/file that will be used when downloading automatically from an FTP server at the set time. (See "Setting folders/files to use for FTP server download" on page 90.)

SCHEDULE TYPE

Set/show the type of schedule used to execute the timer event. (See "Setting execution schedules for timer events" on page 91.)

DATE

Set/view the year, month and day of timer event execution. (See "Setting dates for timer event execution" on page 91.)

TIME

Set/view the time (hour: minute: second) of timer event execution. (See "Setting times for timer event execution" on page 91.)

TIME MODE

Set/view whether playback of the playback file starts or stops at the set time. (See "Setting what happens at the time set for the playback timer event" on page 91.)

REPEAT INTERVAL TIME

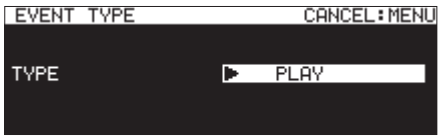
Set/view the frequency interval (hours: minutes) of an event that is executed repeatedly. (See "Setting the frequency intervals of events that repeat" on page 92.)

REPEAT EVENT COUNT

Set/view how many times a repeated event is executed. (See "Setting the number of event repetitions" on page 92.)

Setting the event type

1. Select EVENT TYPE, and open the EVENT TYPE screen.



2. Select the timer event that will be executed automatically at the set time.

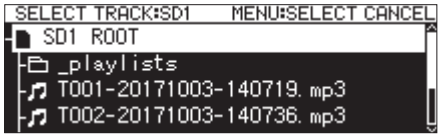
Option	Meaning
PLAY	File playback
PLAY	Repeat file playback
PLAY	Folder playback
PLAY	Folder repeat playback
REC	Recording
STOP	Stop
DOWNLOAD	Download (from an FTP server)
DEL&DOWNLOAD	Delete before downloading (after deleting all audio files in the current folder, download files from the FTP server)

3. Press the MULTI JOG dial.
   This confirms the setting and returns to the EDIT EVENT screen.

Selecting files for playback

If the EVENT TYPE setting is "PLAY" or "PLAY", the PLAYBACK FILE item will appear on the EDIT EVENT screen.

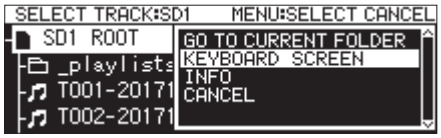
1. Select the PLAYBACK FILE item, and press the MULTI JOG dial to open the BROWSE screen.



2. Select the desired file as the playback file, and return to the EDIT EVENT screen.

Specifying files for playback

On the BROWSE screen for folder selection, press the MULTI JOG dial to open a pop-up menu.



Select the KEYBOARD SCREEN item, and press the MULTI JOG dial to open the file name input screen.

On the file name input screen, input the file name for the item to be played back. Then, return to the EDIT EVENT screen.

For details about how to edit the text, see "Editing text" on page 71.

Selecting folders for playback

If the EVENT TYPE screen setting is "PLAY" or "PLAY", the PLAYBACK FOLDER item will appear on the EDIT EVENT screen.

1. Select the PLAYBACK FOLDER item, and press the MULTI JOG dial to open the BROWSE screen.
2. Select the desired folder as the playback folder, and return to the EDIT EVENT screen.

Specifying folders for playback

On the BROWSE screen for folder selection, press the MULTI JOG dial to open a pop-up menu.

Select the KEYBOARD SCREEN item, and press the MULTI JOG dial to open the folder name input screen.

On the folder name input screen, input the name of the folder to be used for playback. Then, return to the EDIT EVENT screen.

For details about how to edit the text, see "Editing text" on page 71.

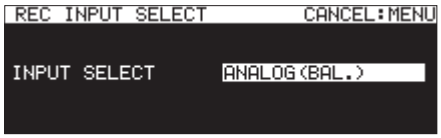
NOTE

- You can specify files and folders that are not yet on the medium.
- On the file/folder name input screen, characters other than regular English letters, numerals and symbols cannot be input.
- If the file/folder name is wider than the screen, use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor and scroll the file/folder name left and right. If the left or right end is not being shown, "…" will appear at that end.
- To return to the BROWSE screen, select "BROWSE ▶" at the top right of the file input screen, and press the MULTI JOG dial.

Selecting the input to use when recording

If the EVENT TYPE setting is "REC", the REC INPUT SELECT item will appear on the EDIT EVENT screen.

1. Select REC INPUT SELECT, and open the REC INPUT SELECT screen.



2. Select the input that will be used when recording automatically at the set time.

Options	Meaning
ANALOG(UNBAL.)	Input from ANALOG INPUTS (UNBALANCED) L/R jacks
ANALOG(BAL.)	Input from ANALOG INPUTS (BALANCED) L/R jacks
DIGITAL(COAX.)	Input from SPDIF IN jack
DIGITAL(XLR)	Input from AES/EBU IN jack
DIGITAL(Dante)	Input from IF-DA2 Dante interface card

NOTE

"DIGITAL (Dante)" can only be selected if an IF-DA2 Dante interface card (sold separately) is installed in the unit.

ATTENTION

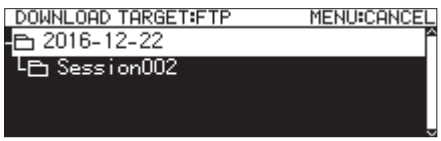
After setting this to "DIGITAL(Dante)", if the IF-DA2 Dante interface card is removed from the unit, recording events will still be executed without changing the input. This could result in audio not being recorded as desired.

3. Press the MULTI JOG dial.
   This confirms the setting and returns to the EDIT EVENT screen.

Setting folders/files to use for FTP server download

If the EVENT TYPE setting is "DOWNLOAD" or "DEL&DOWNLOAD", the DOWNLOAD TARGET item will appear on the EDIT EVENT screen.

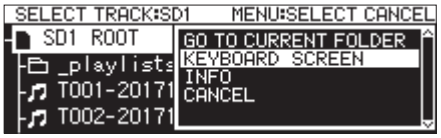
1. Select DOWNLOAD TARGET, and press the MULTI JOG dial to open the FTP server DOWNLOAD TARGET screen.



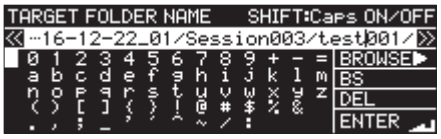
2. Select the folder/file you want to use for downloading on the FTP server BROWSE screen and press the MULTI JOG dial to open the folder or file pop-up menu.
3. Select the SELECT item and press the MULTI JOG dial to set the folder/file for downloads, and return to the EDIT EVENT screen.

Selecting files/folders for download by inputting path names

Even when an FTP server cannot be connected, you can set names of items to be downloaded.
On the BROWSE screen for FTP server folder selection, press the MULTI JOG dial to open a pop-up menu.



Select the KEYBOARD SCREEN item, and press the MULTI JOG dial to open the path name input screen.



On the path name input screen, input the path name for the item to be downloaded. Then, return to the EDIT EVENT screen.
Use up to 260 characters.
For details about how to edit the text, see "Editing text" on page 71.

NOTE

- On a path name input screen, characters other than English letters, numerals and symbols cannot be input.
- "/" and ":" only appear when inputting FTP server paths.
- If the path name is wider than the screen, use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor and scroll the path name left and right. If the left or right end is not being shown, " … " will appear at that end.
- To return to the BROWSE screen, select "BROWSE ▶ " at the top right of the path input screen, and press the MULTI JOG dial.

Setting execution schedules for timer events

1. Select SCHEDULE TYPE, and open the SCHEDULE TYPE screen.



2. Select the type of schedule used to execute the timer event.

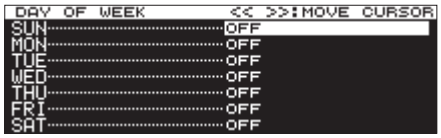
Option	Meaning
DAY OF WEEK	Timer events can be executed on set days of the week (every week). (See "Setting days for timer event execution" on page 91.)
DATE	Timer events can be executed on set dates. (See "Setting dates for timer event execution" on page 91 and "Setting times for timer event execution" on page 91.)
EVERY DAY	Timer events can be set to execute daily.

3. Press the MULTI JOG dial.
   This confirms the setting and returns to the EDIT EVENT screen.

Setting days for timer event execution

When SCHEDULE TYPE is set to "DAY OF WEEK", the DAY OF WEEK item appears on the EDIT EVENT screen, and you can set which days the event executes.

1. Select DAY OF WEEK, and open the DAY OF WEEK screen.



2. Turn the MULTI JOG dial to turn an item on/off.
   Press the MULTI JOG dial to move the cursor to the next line.
   Use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor.

   Options: OFF (default), ON

3. Press the MULTI JOG dial when on the bottom row to confirm the settings and return to the EDIT EVENT screen.
   Press the MENU [BROWSE] button to cancel setting changes and return to the EDIT EVENT screen.

Setting dates for timer event execution

When SCHEDULE TYPE is set to "DATE", you can set the year/month/day that the timer event executes on the DATE screen.

1. Select SCHEDULE TYPE DATE, and open the DATE screen.



2. Set the year, month and day of timer event execution.
3. The cursor will disappear and setting the date and time will complete after you change the year, month and day in order.

NOTE

The month can be set to monthly (**) if you want the event to occur every month of the year (01-12).

Setting times for timer event execution

1. Select SCHEDULE TYPE DATE, and open the TIME screen.



2. Set the time (hour: minute: second) of timer event execution.

   Options: 00:00:00 (default) – 23:59:59

3. Turn the MULTI JOG dial to change the time setting.
   Press the MULTI JOG dial to move the cursor right.
   You can also use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor.
   Press the MULTI JOG dial when the cursor is on the second to confirm the setting and return to the EDIT EVENT screen.

Setting what happens at the time set for the playback timer event

1. Select TIME MODE, and open the TIME MODE screen.



2. Set whether playback of the playback file starts or stops at the set time.

Option	Meaning
START TIME	Set the event to start playback of the playback file at the set time.
END TIME	Set the event to end playback of the playback file at the set time.

Setting the frequency intervals of events that repeat

1. Select REPEAT INTERVAL TIME, and open the REPEAT INTERVAL TIME screen.



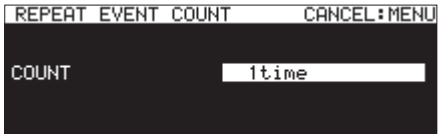
2. Set the frequency interval (hours: minutes) of the event that is executed repeatedly.

   Options: 00:00 (default) – 23:59

3. After setting the hour and minute in order, the time will be set and the cursor will disappear.

Setting the number of event repetitions

1. Select REPEAT EVENT COUNT, and open the REPEAT EVENT COUNT screen.



2. Set the number of times that event execution is repeated.

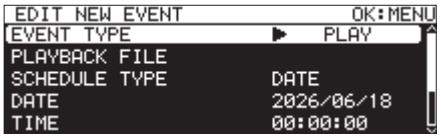
   Options: 1time (default), 100times

NOTE

If the REPEAT EVENT COUNT screen is set to 1time, the event will not repeat.

Creating new timer events

1. Select CREATE NEW EVENT, and open the EDIT NEW EVENT screen.



2. Make settings for the timer event. (See "Editing timer events" on page 88.)

NOTE

A maximum of 200 events can be added and executed.
For example, if there are 25 events that are set to repeat 10 times each, the total number of events to execute would be 250 (10×25). Since this is too many, only the first 20 events in the list would be executed, bringing the total down to 200 (10×20). The last 5 events in the list would not be executed.

Deleting timer events

1. Select the timer event that you want to delete, and open the timer events list pop-up menu. (See "Timer event list menu operations" on page 87.)
2. Select DELETE, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.



3. Press and hold the MULTI JOG dial to delete the selected timer event.
   When deleting completes, the EDIT EVENT screen reopens.

NOTE

Press the MENU [BROWSE] button to cancel timer event deletion.

Deleting all timer events

1. Open the timer event list pop-up menu. (See "Timer event list menu operations" on page 87.)
2. Select DELETE ALL, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.



3. Press and hold the MULTI JOG dial to delete all timer events.
   When deleting completes, the EDIT EVENT screen reopens and "---NO TIMER EVENT---" appears.

NOTE

- Press the MENU [BROWSE] button to cancel timer event deletion.
- Timer event lists can also be created on a computer using TASCAM Playlist Editor.
- Save timer event lists created using TASCAM Playlist Editor in the ".system" folder at the root of the medium being used.
- Do not change the file name from "SS_EventList.tlist".

Mark functions (USB flash drives and SD cards only)

Adding marks

Marks can be added in the following ways.

Including marks added by the automatic mark function, one file can have up to 99 marks added to it.

Adding marks manually

Press the MULTI JOG dial to add a mark at the current playback/recording point.

The mark will be named "MARKxx".



ATTENTION

- Marks can be added to MP3 files recorded by this unit, but marks cannot be used with other MP3 files.
- Marks cannot be added to AAC files.

Adding marks automatically

The automatic mark function allows the unit to add marks automatically during recording. For details about the automatic mark function, see "Adding marks automatically when recording" on page 77.

The marks will be named according to type.

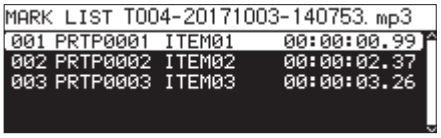
Reason mark added automatically	Mark name
Audio level reached 0 dB (full bit).	OVERxx
At set time interval	TIMExx
Synchronization with external clock lost	UNLKxx
Point where recording started using pre-recording	RECxx
Time when buffer overflow occurred	BOFxx

Adding marks with external devices

Used in combination with an Audio-Technica Corporation ATDM-1012 or ATDM-1012DAN Digital SmartMixer, marks can be added especially for minute-taking applications.

For details about connecting an ATDM-1012 or ATDM-1012DAN to this unit and using it to add marks, see the ATDM-1012 User Manual.

Used this way, one file can have up to 999 marks added to it.



MARK LIST screen with marks added by an ATDM-1012

Notation on screen	Meaning
PRTP	ID number for specific participant
ITEM	ID number for specific minute item

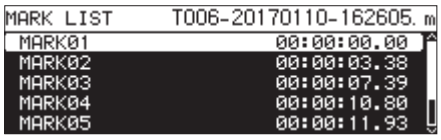
ATTENTION

When used in combination with an ATDM-1012 or ATDM-1012DAN, the automatic mark function is disabled.

Using marks

Select the MARK LIST item on the GENERAL page to open the MARK LIST screen. (See "Menu operation procedures" on page 23.)

"No Mark Point" is shown if the current file has no marks.



Select the desired mark on the MARK LIST screen and press the MULTI JOG dial to open the mark pop-up menu.



Turn the MULTI JOG dial to select the desired item, and press the MULTI JOG dial to work with it as follows.

LOCATE

Move to the selected mark. (See "Moving to marks" on page 95.)

EDIT TIME

Open the EDIT MARK TIME screen where you can edit the selected mark. (See "Editing mark locations" on page 96.)

EDIT NAME

Open the MARK NAME screen where you can edit the name of the selected mark. (See "Editing mark names" on page 95.)

DELETE

Delete the selected mark. (See "Deleting marks" on page 96.)

DELETE ALL

Delete all marks in the current file. (See "Deleting all marks in the current file" on page 96.)

SORT BY TIME

Show marks sorted by time.

SORT BY NAME

Show marks sorted by name.

INFO

Open a pop-up with the number of marks of each type in the current file. (See "Viewing mark information" on page 96.)

CANCEL

Close the mark menu.

NOTE

When marks have been added using an ATDM-1012 or ATDM-1012DAN, only the LOCATE, DELETE and CANCEL items will be shown.

Moving to marks

Using the MULTI JOG dial to move to marks

When the home screen is open during playback or playback standby and marks have been added, turn the MULTI JOG dial to move to marks.

Using the menu to move to marks

1. Turn the MULTI JOG dial to select the mark to which you want to move.
2. Press the MULTI JOG dial to open the mark pop-up menu, select the LOCATE item and press the MULTI JOG dial to move to the selected mark. (See "Using marks" on page 95.)

Editing mark names

1. Select the mark with the name that you want to edit and press the MULTI JOG dial to open the mark pop-up menu. (See "Using marks" on page 95.)
2. Select EDIT NAME in the mark menu, and press the MULTI JOG dial to open the MARK NAME screen.



3. Input the mark name.
   Use up to 10 characters.
   For details about how to edit the mark name, see "Editing text" on page 71.

NOTE

- The names of marks created by the automatic mark function cannot be changed.
- Editing the names of marks is only possible when stopped or in playback standby.

Deleting marks

1. Select the mark that you want to delete and press the MULTI JOG dial to open the mark pop-up menu. (See "Using marks" on page 95.)
2. Select DELETE in the mark menu, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.
3. Press the MULTI JOG dial again to open a second confirmation pop-up message.
4. Press and hold the MULTI JOG dial to delete the selected mark.

NOTE

Deleting marks is only possible when stopped or in playback standby.

Deleting all marks in the current file

1. Press the MULTI JOG dial to open the mark pop-up menu. (See "Using marks" on page 95.)
2. Select DELETE ALL in the mark menu, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.
3. Press the MULTI JOG dial again to open a second confirmation pop-up message.
4. Press and hold the MULTI JOG dial to delete all marks in the current file.

NOTE

Deleting marks is only possible when stopped or in playback standby.

Editing mark locations

You can use the MULTI JOG dial to edit the positions (times) of added marks (marks named "MARKxx").

NOTE

- The names of marks created by the automatic mark function cannot be changed.
- Editing the locations of marks is only possible when stopped or in playback standby.

1. Select the mark with the location that you want to edit and press the MULTI JOG dial to open the mark pop-up menu. (See "Using marks" on page 95.)
2. Select EDIT TIME in the mark menu, and press the MULTI JOG dial.
3. When the EDIT MARK TIME screen opens, use the MULTI JOG dial to change the time.



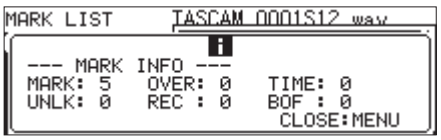
Press the MULTI JOG dial when the cursor is in the last field to confirm the setting and return to the MARK LIST screen.

NOTE

- When editing, you can press the MENU [BROWSE] button to cancel the changes and return to the MARK LIST screen.
- You can also use a USB keyboard to input numbers.

Viewing mark information

Press the MULTI JOG dial to open the mark pop-up menu, select the INFO item and press the MULTI JOG dial again to show the numbers of marks of different types in the current file. (See "Using marks" on page 95.)



Press the MENU [BROWSE] button to close the pop-up.

Locating to a specific time

You can locate to a specific time using a USB keyboard when stopped, playing back or in playback standby.

ATTENTION

Locating is not possible if the playback mode is "PROGRAM" or "RANDOM" or the playback area is "PLAYLIST" or "FOLDER".

When the Home Screen is open, press the * (asterisk) key to clear the track number and time display and enable numerical input.
Use the keypad to enter numbers in the following order.

- Track number: 3 digits
- Time elapsed from track beginning in hours, minutes, seconds and 10msec increments (2 digits each)

For example, enter the following numbers in order to specify the location 1 minute and 30 seconds from the beginning of track 2.

0 → 0 → 2 → 0 → 0 → 0 → 1 → 3 → 0 → 0 → 0

After inputting the 11th digit, the unit will automatically locate to the specified time.
The status of the unit after locating will be the same as it was before (stopped, in playback standby or playing).
For this reason, playback will resume at the new time after locating during playback.

NOTE

Using the Backspace or / (backslash) key on the USB keyboard will delete the last input number.

Locating before completely specifying the time

Before inputting all the numbers to specify a time, you can locate to the time specified immediately by pressing the Enter key on the USB keyboard, the MULTI JOG dial or the PLAY or PAUSE [CALL] button on the unit.
For example, entering the following incomplete time.

0 → 0 → 2 → 0 → 0 → 1 → 2

Press the PLAY button to locate to 12 minutes from the beginning of track 2.
What happens after locating depends on which control was pressed.

If the MULTI JOG dial was pressed:

Playback or playback standby is resumed according to the state before locating.

If the PLAY button was pressed:

Playback starts.

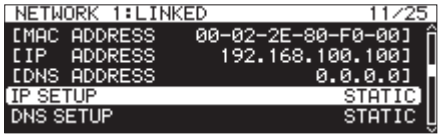
If the PAUSE [CALL] button was pressed:

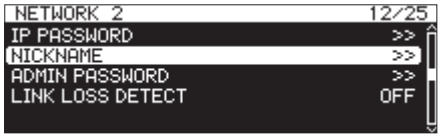
The unit enters playback standby.

Network function settings

The unit can be connected to a network using its Ethernet connector, allowing file transfer and external control of the unit.

Use the NETWORK 1 and NETWORK 2 pages to make network function settings.





ATTENTION

When using a network, including NTP server functions, be aware of the transmission speeds of connected network devices.

This unit only supports 100BASE-TX (100 Mbps).

Proper operation is not possible in network environments that use 10BASE-T, for example.

LINKED/UNLINKED

The status of the network link between devices is shown after the NETWORK page.

Status	Meaning
LINKED	A link is established.
UNLINKED	A link is not established.

ATTENTION

"LINKED" shows that the unit is directly connected to a network device.

Even when this appears, this does not guarantee that proper transmission is occurring with other network devices.

MAC ADDRESS

This shows the unit's MAC address.

IP ADDRESS

This shows the current IP address.

DNS ADDRESS

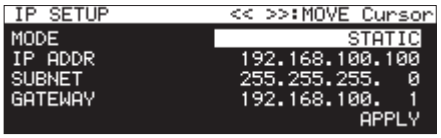
This shows the IP address of the DNS server.

IP SETUP

This shows the setting status of the MODE item on the IP SETUP screen.

Select the IP SETUP item, and press the MULTI JOG dial to open the IP SETUP screen.

- Press the MULTI-JOG dial to advance to the next item.
- The cursor can be moved using the ◄◄ [EDIT] and ►► [FADE] buttons.



When MODE set to "STATIC"



When MODE set to "AUTO"

MODE item:

Set the IP address setting mode.

Option	Meaning
STATIC	Set the IP ADDR, SUBNET and GATEWAY items on the IP SETUP screen manually.
AUTO (default)	Set the IP ADDR, SUBNET and GATEWAY items on the IP SETUP screen automatically. Use this setting if there is a DHCP server on the network.

IP ADDR/SUBNET/GATEWAY items:

When the IP SETUP screen MODE item is set to "STATIC", the IP ADDR, SUBNET and GATEWAY items appear and their settings can be changed.

Options: 0 – 255

(IP ADDR item default: 192. 168. 100. 100)
(SUBNET item default: 255. 255. 255. 0)
(GATEWAY item default: 192. 168. 100. 1)

When MODE is set to "STATIC", press the MULTI JOG dial on "APPLY" in the last line to confirm the changed settings and return to the Menu Screen.

NOTE

Press the MENU [BROWSE] button to cancel the menu operation and return to the Menu Screen.

DNS SETUP

This shows the setting status of the MODE item on the DNS SETUP screen.

Select DNS SETUP, and press the MULTI JOG dial to open the DNS SETUP screen.



When MODE set to "STATIC"



When MODE set to "AUTO"

On the DNS SETUP screen, set the IP address of the DNS server so the IP address can be looked up from the server name.

MODE item:

Set the IP address setting mode.

Option	Meaning
STATIC	Set the IP address of the DNS server manually.
AUTO (default)	Set the IP address of the DNS server automatically. Use this setting if there is a DHCP server on the network that will return the IP address of the DNS server.

NOTE

If STATIC is selected in IP SETUP, even if DNS ADDRESS is set to AUTO, it will become the DNS address set for STATIC.

DNS ADDR item:

When the DNS SETUP screen MODE item is set to "STATIC", a DNS ADDR item appears and its setting can be changed.

Options: 0 – 255 (default: 0. 0. 0. 0)

When MODE is set to "STATIC", press the MULTI JOG dial on "APPLY" in the last line to confirm the changed settings and return to the Menu Screen.

NOTE

Press the MENU [BROWSE] button to cancel the menu operation and return to the Menu Screen.

IP PASSWORD

Select the IP PASSWORD item, and press the MULTI JOG dial to open the PASSWORD screen.



Set the password to use when connecting to the unit's FTP server or by Telnet.

The default password is different for each unit.

Check the PASSWORD Screen for the password of the unit being used.

Use up to 10 characters.

For details about how to edit the text, see "Editing text" on page 71.

NOTE

- Press the MULTI JOG dial on "PRESET ▲" to input the default: "SS-R300N".
- SFTP server and client functions use public key authentication, so they do not use the password set here.

NICKNAME

Select the NICKNAME item, and press the MULTI JOG dial to open the NICKNAME screen.



Set the nickname used to identify the device (default: SS-R300N).

Input up to 16 characters.

For details about how to edit the text, see "Editing text" on page 71.

NOTE

- Press the MULTI JOG dial on "PRESET ▲" to input the default: SS-R300N.
- By setting unit identification names, specific devices can be identified using the OSC (Open Sound Control) Identify command.

ADMIN PASSWORD

Select the ADMIN PASSWORD item, and press the MULTI JOG dial to open the ADMIN PASSWORD screen.



Set the administrator password.

The default password is different for each unit.

Check the ADMIN PASSWORD screen for the password of the unit being used.

Input up to 10 characters.

For details about how to edit the text, see "Editing text" on page 71.

NOTE

Press the MULTI JOG dial on "PRESET ▲" to input the default: SS-R300N.

LINK LOSS DETECT

While LINK LOSS DETECT is selected, press the MULTI JOG dial to open the LINK LOSS DETECT screen.



The number of control devices that can be connected using Telnet command protocol is limited. For this reason, even if a network cable is disconnected or a transmission link is interrupted, the control connection will remain so the establishment of new connections could stop being possible.

Setting this function to "ON" will automatically release unnecessary connections, enabling reliable reconnection.

MODE item:

Set the LINK LOSS DETECT function to ON or OFF.

Options: OFF (default), ON

INTERVAL TIME:

Set the detection interval used by the LINK LOSS DETECT function.

Options: 5sec (default) 10sec, 30sec, 1min, 10min, 30min, 60min

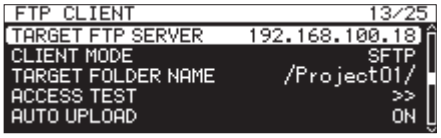
ATTENTION

Detection uses a ping response. Depending on the firewall setting of the control device, the ping might not be accepted so it will be evaluated as a network interruption, and Telnet connection will be interrupted.

In this case, set the LINK LOSS DETECT function to OFF or change the firewall setting to enable "ICMP Echo Request". (See "Enabling "ICMP Echo Request" using firewall settings" on page 131.)

FTP client function settings

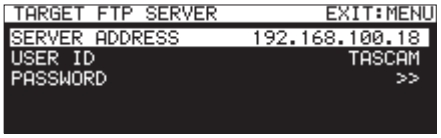
FTP client function settings can be made on the FTP CLIENT page.



TARGET FTP SERVER

This opens the TARGET FTP SERVER screen.

Make various settings for FTP server connections.



SERVER ADDRESS item:

Set the address of the FTP server being connected.

USER ID item:

Set the user ID to use when connecting to the FTP server.

PASSWORD item:

Set the password to use when connecting to the FTP server.

NOTE

SFTP server connections use public key authentication, so they do not use the password set here.

CLIENT MODE

This shows the setting status of the MODE item on the CLIENT MODE screen.

Select CLIENT MODE, and press the MULTI JOG dial to open the CLIENT MODE screen.



Set the mode used for SSL encryption of data sent and received by FTP on the CLIENT MODE screen.

MODE item:

Option	Meaning
PLAIN FTP	In this mode, the unit connects by ordinary FTP. Encryption will not be conducted.
FTPS AUTO	Using this mode, the unit will try to connect using FTPS that is encrypted by SSL. If connection is not possible, it will try to connect using ordinary FTP.
SFTP (default)	Using this mode, the unit will connect with transmissions that are encrypted by SSH.

ATTENTION

When using PLAIN FTP, transmitted content is not encrypted, so this is not suitable for secure communication environments. Restrict use of this to local network (LAN) environments.

NOTE

- FTP client functions work in Active mode. Use port 21 on connected FTP servers for control connections.

  Use the port numbers communicated from the FTP servers for data connections.
- In order to set the CLIENT MODE screen setting to "SFTP" and connect with an SFTP server, the SSH key must be registered with both the unit and the SFTP server. (See "SFTPc: IMPORT KEY" on page 105.)
- If the FTP server being connected does not support FTPS, data transmission using this unit's FTP client function might become slower if the CLIENT MODE screen is set to "FTPS AUTO".
- If connection encrypted by SSL or SSH is not necessary, switching the CLIENT MODE screen setting to "PLAIN FTP" might increase the data transmission speed.
- This unit's FTPS supports Explicit mode.
- FTPS client encryption protocol standards
  - TLS 1.2 and 1.3 supported
  - TLS 1.2 supported encryption suite (key exchange, authentication, encryption and hash methods):
    TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384
    TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
    TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
    TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
    TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256
    TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256
    TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA
    TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA
    TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA
    TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA
    TLS_RSA_WITH_AES_256_CBC_SHA
    TLS_RSA_WITH_AES_128_CBC_SHA
    TLS_RSA_WITH_3DES_EDE_CBC_SHA
  - TLS 1.3 supported encryption suite (key exchange, authentication, encryption and hash methods):
    TLS_AES_128_GCM_SHA256
    TLS_AES_256_GCM_SHA384
    TLS_CHACHA20_POLY1305_SHA256
- SFTP (SSH FTP) client specifications
  - SSH version 2 supported
  - SSH file transfer protocol (version 3) supported
  - Supported keys: ECDSA 256/384/521-bit, RSA 2048/3072-bit

TARGET FOLDER NAME

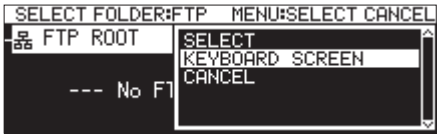
This sets the default folder on the FTP server used when uploading to it and downloading from it.

1. Select TARGET FOLDER NAME, and press the MULTI JOG dial to open the FTP server BROWSE screen.
2. Select the folder to use on the FTP server BROWSE screen and press the MULTI JOG dial to open the pop-up folder menu. Select the SELECT item, and return to the menu screen.

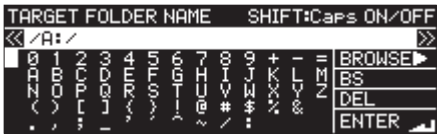
Selecting folders to use by inputting path names

Even when an FTP server cannot be connected, you can set names of folders to use.

On the BROWSE screen for FTP server folder selection, press the MULTI JOG dial to open a pop-up menu.



Select the KEYBOARD SCREEN item, and press the MULTI JOG dial to open the path name input screen.



Input the path name for the item on the path name input screen, and return to the menu screen.

Use up to 260 characters.

For details about how to edit the text, see "Editing text" on page 71.

NOTE

- On a path name input screen, characters other than English letters, numerals and symbols cannot be input.
- "/" and ":" only appear when inputting FTP server paths.
- If the path name is wider than the screen, use the ◄◄ [EDIT] and ►► [FADE] buttons to move the cursor and scroll the path name left and right. If the left or right end is not being shown, "…" will appear at that end.
- To return to the BROWSE screen, select "BROWSE ▶" at the top right of the path input screen, and press the MULTI JOG dial.

ACCESS TEST

Press the MULTI JOG dial to test the connection with the set FTP server, and open a pop-up with the result.



The illustration above shows an example of a connection result.

Connection test result list

Message	Explanation
Network not available	The network cannot be used. Confirm that LAN cables have not become disconnected and that the power to network hubs and routers has not been turned off, for example.
Server IP not found	A server with the specified IP address cannot be found.
Server connection failed	Connection to the server has failed.
bad Username or Password	The username or the password does not match.
SFTP authentication failed	SFTP authentication has failed. Check the SSH keys loaded in the unit and set in the server again.
Connection OK, Folder NG	Normal FTP connection was possible, but the TARGET FOLDER NAME folder was not found.
Connection OK, Folder OK	Normal FTP connection was possible, and the TARGET FOLDER NAME folder was found.
This server does not support FTPS.	This server does not support FTPS.
FTPS negotiation failed.	FTPS negotiation has failed.
FTPS connection OK.	Normal FTPS connection was possible.

AUTO UPLOAD

This shows the setting status of the MODE item on the AUTO UPLOAD screen.

Select AUTO UPLOAD, and press the MULTI JOG dial to open the AUTO UPLOAD screen.



Set the AUTO UPLOAD screen to automatically upload files that have completed recording to the FTP server.

MODE item:

Options	Meaning
OFF (default)	Do not automatically upload.
ON	Automatically upload.
DEL.AFTER UPLOAD	Automatically delete files that have been uploaded.

NOTE

The automatic uploading function is disabled when the current medium is "CD". In this case, the FTP CLIENT page AUTO UPLOAD item will appear as "-------".

Restrictions and supported root certifications related to FTPS connection

To use the FTPS client functions of this unit and connect to an external server, acquire an SSL/TLS certification (server certification) that meets the following conditions for the server.

Supported root certification authorities (CA)

The following certification agencies are compatible based on the public root certification included in this unit.

If acquiring a new server certification, we strongly recommend adopting a certification with a chain (step structure) that connects to the root certification of ★ (top recommendation) in consideration of future compatibility and stability.

DigiCert

- ★ DigiCert Global Root G2 (top recommendation , optimal for future new applications)
- DigiCert Assured ID Root G2 (for compatibility and existing setups)

GMO GlobalSign

- GlobalSign Root CA - R3 (for compatibility, not recommended for long-term use)

NOTE

- Even though this unit has other root certifications in addition to those above, please use one of the recommended certification authorities when acquiring new certifications.

  We do not guarantee operation when connected using certifications issued by certification authorities other than those above or certifications that depend on root certifications that are expired.
- Due to changes in certification issuance policies and intermediary CA structures, connection might not be possible even when a supported root certification is included.

Connected server name (host name) restrictions

Specify the host name (FQDN) of the FTPS server set in this unit using no more than 31 characters, including normal (half-width) English letters and numbers and certain symbols (including hyphens and dots).

Host names with more than 31 characters cannot be set.

NOTE

If the connected host name is long, setting a shorter host name using an alternate name for DNS (CNAME, etc.) might resolve this.

However, the connected server name (host name) set in this unit and the name registered in the server certification (CN or SAN) must match according to the specifications of SSL/TLS certification.

For this reason, when using a short host name (alternate name), always confirm that short host name is included in the server certification.

SFTP SERVER (SFTPd)

SSH keys used by the SFTP server function (SFTPd) of the unit can be registered or deleted and information about them can be viewed.

SFTPd: IMPORT KEY

Import an SSH key to use with the SFTP server (SFTPd) function to the unit.

- **IMPORT SERVER PRIVATE KEY**
  Import a private key to use with the SFTP server of the unit.
- **IMPORT CLIENT PUBLIC KEY**
  Import a public key for SFTP clients to connect with the SFTP server of the unit.

Importing procedures

1. Select the type of key to import and press the MULTI JOG dial to switch to a BROWSE screen with a blinking title where the key can be selected.
2. Select the desired file and press the MULTI JOG dial to open the pop-up file menu.
3. Select the SELECT item, and press the MULTI JOG dial to open a pop-up message confirming import of the selected file.



4. Press and hold the MULTI JOG dial to import the selected file.
If it was imported properly, a "Completed" message will be shown.
If the format of the selected file is not supported, a pop-up message like the following will be shown.

- **Example when a key with an unsupported bit length was imported**



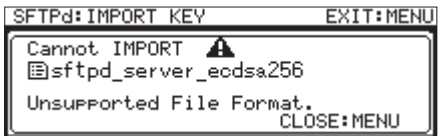
- **Example when a public key was imported using the private key import menu**



- **Example when a private key was imported using the public key import menu**



- **Example when another type of unsupported key was imported**



SFTPd: SHOW KEY INFO

This shows various information about the SSH keys imported to the unit for use with the SFTP server (SFTPd) function.
Select the type of key to check, and press the MULTI JOG dial to open a pop-up message with content like the following.

- **IMPORTED SERVER PRIVATE KEY**
  This pop-up shows various information about the private key imported to the unit for use with its SFTP server.
- **IMPORTED CLIENT PUBLIC KEY**
  This pop-up shows various information about the public key imported to the unit for use with SFTP clients connected to its SFTP server.

Display example



Displayed content

Location	Content	Display examples
Line 1	Key use	IMPORTED SERVER PRIVATE KEY IMPORTED CLIENT PUBLIC KEY
Line 2	Name of key file imported by unit	
Lines 3–4	Fingerprint data in SHA256 format	
Line 5	SSH key algorithm type and bit length	ECDSA-256bit ECDSA-384bit ECDSA-521bit RSA-2048bit RSA-3072bit

NOTE

"No Data" will be shown if no SSH key has been imported.

DELETE KEYS for SFTP SERVER

SSH keys imported for use with the SFTP server (SFTPd) function of this unit can be deleted.

1. Select this item and press the MULTI JOG dial to open a confirmation pop-up message.



2. Press the MULTI JOG dial again to open a second confirmation pop-up message.



3. Pressing and holding the MULTI JOG dial will delete all SSH keys imported for use with the SFTP server (SFTPd) function.

ATTENTION

Before temporarily or permanently transferring possession of this unit, including when submitting it for repair and when selling it, delete SSH keys for the SFTP server (SFTPd) function saved on the unit in order to maintain security and prevent unauthorized access.

SSH keys left undeleted could result in unauthorized access by third parties. We strongly recommend using this function to delete them.

SFTP CLIENT (SFTPc)

SSH keys used by the SFTP client (SFTPc) function of the unit can be registered or deleted and information about them can be viewed.

SFTPc: IMPORT KEY

Import an SSH key to use with the SFTP client (SFTPc) function to the unit.

- **IMPORT CLIENT PRIVATE KEY**
  Import a private key to use with the SFTP client function of the unit.
- **IMPORT CLIENT PUBLIC KEY**
  Import a public key to use with the SFTP client function of the unit.

Importing procedures

1. Select the type of key to import and press the MULTI JOG dial to switch to a BROWSE screen with a blinking title where the key can be selected.
2. Select the desired file and press the MULTI JOG dial to open the pop-up file menu.
3. Select the SELECT item, and press the MULTI JOG dial to open a pop-up message confirming import of the selected file.



4. Press and hold the MULTI JOG dial to import the selected file.
   If it was imported properly, a "Completed" message will be shown.
   If the format of the selected file is not supported, a pop-up message like the following will be shown.
   - **Example when a key with an unsupported bit length was imported**



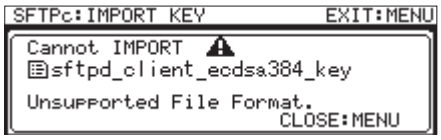
   - **Example when a public key was imported using the private key import menu**



   - **Example when a private key was imported using the public key import menu**



- **Example when another type of unsupported key was imported**



SFTPc: SHOW KEY INFO

This shows various information about the SSH keys imported to the unit for use with the SFTP client (SFTPc) function. Select the type of key to check, and press the MULTI JOG dial to open a pop-up message with content like the following.

- **IMPORTED CLIENT PRIVATE KEY**
  This pop-up shows various information about the private key imported to the unit for use with its SFTP client function.
- **IMPORTED CLIENT PUBLIC KEY**
  This pop-up shows various information about the public key imported to the unit for use with its SFTP client function.
- **CONNECTED SFTP SERVER KEY**
  This pop-up shows various information about the key of the SFTP server that this unit's SFTP client last connected to and was accepted by.

Display examples





Displayed content

Location	Content	Display examples
Line 1	Key use	IMPORTED CLIENT PRIVATE KEY IMPORTED CLIENT PUBLIC KEY CONNECTED SFTP SERVER KEY
Line 2	Name of key file imported by unit	
Lines 3–4	Fingerprint data in SHA256 format	
Line 5	SSH key algorithm type and bit length	ECDSA-256bit ECDSA-384bit ECDSA-521bit RSA-2048bit RSA-3072bit

NOTE

"No Data" will be shown if no SSH key has been imported.

DELETE KEYS for SFTP CLIENT

This function deletes SSH keys imported to the unit for use with the SFTP client (SFTPc) function.

1. Select this item and press the MULTI JOG dial to open a confirmation pop-up message.



2. Press the MULTI JOG dial again to open a second confirmation pop-up message.



3. Pressing and holding the MULTI JOG dial will delete all SSH keys imported for use with the SFTP client (SFTPc) function.

ATTENTION

Before temporarily or permanently transferring possession of this unit, including when submitting it for repair and when selling it, delete SSH keys for the SFTP client (SFTPc) function saved on the unit in order to maintain security and prevent unauthorized access.

SSH keys left undeleted could result in unauthorized access by third parties. We strongly recommend using this function to delete them.

Generating SSH keys for use by SFTP server/client functions

SSH keys for use by the SFTP server and client functions of this unit can be generated using the `ssh-keygen` command, which is a standard inclusion in Windows and macOS.
We recommend using SSH keys based on ECDSA, which is presented first, in consideration of security and performance.
If compatibility is more important, however, SSH based on RSA can also be used.

NOTE

- In the commands shown below, the specified key file names are comprised of combinations of the following elements. When converting the key bit length and generating from the command shown below, we recommend also changing the "key bit length" (orange part in the command) of the generated file name at your discretion to make identifying the key specifications easier.

  File name elements:

  <Function of this unit>_<server/client identifier>_<key format><key bit length>_<key classification>

  Examples:

  - `sftpd_server_ecdsa256_key` (ECDSA 256-bit private server key for use with the unit's SFTP server function)
  - `sftpc_client_rsa2048_key_pub` (RSA 2048-bit public client key for use with the unit's SFTP client function)

	Options
Unit function	`sftpd/sftpc`
Server/client identifier	`server/client`
Key format and bit length	`ecdsa256/ecdsa384/ecdsa521/rsa2048/rsa3072`
Key classification	`key` (private key) / `key_pub` (public key)

- The file with the "`.pub`" extension is a public key generated at the same time as the private key. This is not used with this unit.
- The file in red letters is used with this unit.
- The file in blue letters is used outside this unit (external SFTP servers, SFTP client applications).

ECDSA format SSH key generation command (recommended)

For SFTP server (SFTPd) functions

- **Private key for server use (registered on this unit)**
  - **Use**
    Private key for use with this unit's SFTP server: used to identify host for this unit's SFTP server
  - **SSH key generation command**

```
ssh-keygen -t ecdsa -b 256 -m pem -f sftpd_server_ecdsa256_key -N ""
```

  - **Files generated**
    - `sftpd_server_ecdsa256_key` (private key, registered on this unit)
    - `sftpd_server_ecdsa256_key.pub` (public key, not used by this unit)
  - **File used with this unit / file format**
    - `sftpd_server_ecdsa256_key` (PEM format / SEC1)
- **Client key pair (public key: registered on this unit / private key: used by SFTP client application)**
  - **Use**
    Public key for SFTP client applications: this unit's SFTP server uses this to approve connection from SFTP client applications
    Private key for SFTP client applications: SFTP client applications use this for verification to this unit
  - **SSH key generation command**

```
ssh-keygen -t ecdsa -b 256 -f sftpd_client_ecdsa256_key -N ""
ssh-keygen -e -m RFC4716 -f sftpd_client_ecdsa256_key.pub > sftpd_client_ecdsa256_key_pub
```

  - **Files generated**
    - `sftpd_client_ecdsa256_key` (private key, used by SFTP client applications)
    - `sftpd_client_ecdsa256_key.pub` (public key, not used by this unit)
    - `sftpd_client_ecdsa256_key_pub` (RFC4716 format public key, registered on this unit)
  - **File used with this unit / file format**
    - `sftpd_client_ecdsa256_key_pub` (RFC4716 format)
  - **File used by SFTP client applications**
    - `sftpd_client_ecdsa256_key` (private key)

For SFTP client (SFTPc) function

- **Client key pair (private key: registered on this unit / public key: used by SFTP client application)**
  - **Use**
    Private key for this unit's SFTP client: this unit uses this for verification with external SFTP servers
    Public key for this unit's SFTP client: external SFTP servers use this to approve connection from this unit
  - **SSH key generation command**

```
ssh-keygen -t ecdsa -b 256 -m pem -f sftpc_client_ecdsa256_key -N ""
```

  - **Files generated**
    - sftpc_client_ecdsa256_key (private key, registered on this unit)
    - sftpc_client_ecdsa256_key.pub (public key, registered by external SFTP server)
  - **File used with this unit / file format**
    - sftpc_client_ecdsa256_key (PEM format / SEC1)
  - **File registered with external SFTP server to be connected to**
    - sftpc_client_ecdsa256_key.pub (public key)
- **Public key for client (registered on this unit)**
  - **Use**
    Public key for this unit's SFTP client: external SFTP servers use this to approve connection from this unit
  - **SSH key generation command**

```
ssh-keygen -e -m RFC4716 -f sftpc_client_ecdsa256_key.pub > sftpc_client_ecdsa256_key_pub
```

  - **Files generated**
    - sftpc_client_ecdsa256_key_pub (public key, registered on this unit)
  - **File used with this unit / file format**
    - sftpc_client_ecdsa256_key_pub (RFC4716 format)

Here, after executing a private key generation command, execute a public key generation command.

NOTE

- This unit only supports keys in formats generated by the above commands.
- It does not support keys with set passphrases.
- Windows 11 includes "OpenSSH" as a standard feature, and the ssh-keygen command can be executed from the command prompt (Start > Show all > Windows Tools > Command Prompt).
- To use Windows PowerShell (Windows key + X > terminal), change '-N ""' to '-N """"' (4 double quotation marks).
- macOS includes "OpenSSH" as a standard feature, and the ssh-keygen command can be executed from the Terminal (Finder > Applications > Utilities > Terminal).
- In the command, "256" can be replaced with "384" or "521" (note that "521" is correct; it is not "512").
- The higher the number is, the stronger the security becomes. Higher numbers, however, also add to the processing load, increasing the length of waiting time to establish connection.
- ECDSA keys generated at "256" (ECDSA 256-bit (P-256) keys) have sufficient security strength as of 2026. Moreover, NIST guidelines state that they will also be suitable for 2030 and beyond.

RSA format SSH key generation command (when compatibility is important)

For SFTP server (SFTPd) functions

- **Private key for server use (registered on this unit)**
  - **Use**
    Private key for use with this unit's SFTP server: used to identify host for this unit's SFTP server
  - **SSH key generation command**

```
ssh-keygen -t rsa -b 2048 -m pem -f sftpd_server_rsa2048_key -N ""
```

  - **Files generated**
    - sftpd_server_rsa2048_key (private key, registered on this unit)
    - sftpd_server_rsa2048_key.pub (public key, not used by this unit)
  - **File used with this unit / file format**
    - sftpd_server_rsa2048_key (PEM format / PKCS#1)
- **Client key pair (registered on this unit / used by SFTP client application)**
  - **Use**
    Public key for SFTP client applications: this unit's SFTP server uses this to approve connection from SFTP client applications
    Private key for SFTP client applications: SFTP client applications use this for verification to this unit
  - **SSH key generation command**

```
ssh-keygen -t rsa -b 2048 -f sftpd_client_rsa2048_key -N ""
ssh-keygen -e -m RFC4716 -f sftpd_client_rsa2048_key.pub > sftpd_client_rsa2048_key_pub
```

  - **Files generated**
    - sftpd_client_rsa2048_key (private key, used by SFTP client applications)
    - sftpd_client_rsa2048_key.pub (public key, not used by this unit)
    - sftpd_client_rsa2048_key_pub (public key, registered on this unit)
  - **File used with this unit / file format**
    - sftpd_client_rsa2048_key_pub (RFC4716 format)
  - **File used by SFTP client applications**
    - sftpd_client_rsa2048_key (private key)

For SFTP client (SFTPc) function

- **Client key pair (private key: registered on this unit / public key: used by SFTP client application)**
  - **Use**
    Private key for this unit's SFTP client: this unit uses this for verification with external SFTP servers
    Public key for this unit's SFTP client: external SFTP servers use this to approve connection from this unit
  - **SSH key generation command**

```
ssh-keygen -t rsa -b 2048 -m pem -f sftpc_client_rsa2048_key -N ""
```

  - **Files generated**
    - sftpc_client_rsa2048_key (private key, registered on this unit)
    - sftpc_client_rsa2048_key.pub (public key, registered by external SFTP server)
  - **File used with this unit / file format**
    - sftpc_client_rsa2048_key (PEM format / PKCS#1)
  - **File registered with external SFTP server to be connected to**
    - sftpc_client_rsa2048_key.pub (public key)
- **Public key for client (registered on this unit)**
  - **Use**
    Public key for this unit's SFTP client: external SFTP servers use this to approve connection from this unit
  - **SSH key generation command**

```
ssh-keygen -e -m RFC4716 -f sftpc_client_rsa2048_key.pub > sftpc_client_rsa2048_key_pub
```

  - **Files generated**
    - sftpc_client_rsa2048_key_pub (public key, registered on this unit)

- **File used with this unit / file format**
  - `sftpc_client_rsa2048_key_pub` (RFC4716 format)

Now, after executing a client key pair generation command, execute a public client key generation command.

NOTE

- This unit only supports keys generated by the above commands.
- It does not support keys with set passphrases.
- Windows 11 includes OpenSSH as a standard feature, and the `ssh-keygen` command can be executed from the command prompt (Start > Show all > Windows Tools > Command Prompt).
- To use Windows PowerShell (Windows key + X > terminal), change '`-N ""`' to '`-N """"`' (4 double quotation marks).
- macOS includes "OpenSSH" as a standard feature, and the `ssh-keygen` command can be executed from the Terminal (Finder > Applications > Utilities > Terminal).
- In the command "2048" can be replaced by "3072"
- The higher the number is, the stronger the security becomes. Higher numbers, however, also add to the processing load, increasing the length of waiting time to establish connection.
- 2048-bit RSA keys generated using "2048" are generally recommended for use until the end of 2030, but they are not recommended for use from 2031 (transition recommended).
- For RSA keys that will be used from 2031, 3072-bit RSA keys generated using "3072" are recommended. However, since RSA has a relatively high load, rather than using 3072-bit RSA, which has an even higher processing load, we recommend switching to ECDSA (256-bit, for example), which is more efficient and provides high security.

Precautions

Maintenance of private keys

- Private key files are important data for assuring transmission security. Manage these files with extreme caution to prevent third parties from accessing them. This includes never providing them to third parties or transmitting them, for example, by email. When using an SD card or USB flash drive to import private key files to this unit, delete them from the medium after importing is complete.
- If a private key file is lost or might have been accessed by a third party, the security of transmissions made using that key could be reduced. To maintain security and prevent unauthorized access, immediately use the key deletion function of this unit to delete the SFTP authentication key. Then, generate new private and public keys using a computer and register those keys on this unit and on connected SFTP servers and clients.

Handling SFTP authentication keys when replacing and disposing of devices

- When taking this unit out of service at the time of replacement or before maintenance, always use the SFTP server and client key deletion functions of this unit to delete SFTP authentication keys. Using the key deletion functions will make transmission using the unit's SFTP server and client functions stop working. This is as expected.
- To conduct SFTP transmission after changing units, generate new private and public keys using a computer and register those keys on this unit and on connected SFTP servers and clients.

Confirming fingerprint data of SSH keys for use by SFTP server/client functions

SSH keys used for this unit's SFTP server and client functions can be distinguished using fixed-length character strings called "fingerprints".
Fingerprints are data for distinguishing keys individually, and are used to confirm that a connection is to the correct partner.
Use the following commands to confirm SSH key fingerprints.

Confirmed operating environments

- Ubuntu 24.04.3 LTS (Windows 11 WSL2)
- Git Bash (git version 2.53.0.windows.2)
- macOS Terminal (Finder > Applications > Utilities > Terminal)

ATTENTION

When using Windows Command Prompt or PowerShell, private key access privilege (permission) errors could occur, preventing proper operation.
Always use one of the above options to execute these commands.

NOTE

Public key fingerprints are the same as the fingerprints of the corresponding private keys.
For this reason, confirming that the fingerprints of public keys and public keys generated from private keys are exactly the same also confirms that the private and public key combinations are correct.

Private key fingerprint confirmation command

To prevent a file access permission error (WARNING: UNPROTECTED PRIVATE KEY FILE!), use a chmod command to change the privilege before confirming.

Fingerprint confirmation command

```
chmod 600 <private key file name>
ssh-keygen -l -f <private key file name>
```

Files used

- sftpd_server_ecdsa256_key
- sftpc_client_ecdsa256_key

NOTE

Adjust the orange characters in the name according to the format and bit length of the created key.

Public key fingerprint confirmation command

Fingerprint confirmation command

```
ssh-keygen -i -m RFC4716 -f <public key file name> | ssh-keygen -l -f -
```

Files used: files that end with "_pub"

- sftpd_client_ecdsa256_key_pub
- sftpc_client_ecdsa256_key_pub

NOTE

Adjust the orange characters in the name according to the format and bit length of the created key.

Example procedures for connecting to the SFTP server of this unit

The following procedures are for connecting to the SFTP server of this unit

Connection procedures

1. Following "Generating SSH keys for use by SFTP server/client functions" on page 107, generate the following SSH keys for the SFTP server (SFTPd) function.

   SSH key-Ⓐ: Private SFTP server key for SFTPd function use (key registered on this unit that is used to identify this unit's SFTP server host)

   File names when generated according to procedure
   Using ECDSA format: `sftpd_server_ecdsa256_key_pub`
   Using RSA format: `sftpd_server_rsa2048_key`

   SSH key-Ⓑ: SFTP client public key for SFTPd function (key registered on this unit that its SFTP server uses to approve connection from SFTP client applications)

   File names when generated according to procedure (files with "`_pub`" not "`.pub`")
   Using ECDSA format: `sftpd_client_ecdsa256_key_pub`
   Using RSA format: `sftpd_client_rsa2048_key_pub`

   SSH key-Ⓒ: SFTP client private key for SFTPd functions (key used by SFTP client applications to identify themselves to this unit)

   File names when generated according to procedure
   Using ECDSA format: `sftpd_client_ecdsa256_key`
   Using RSA format: `sftpd_client_rsa2048_key`

2. Use "IMPORT SERVER PRIVATE KEY" from the SFTPd:IMPORT KEY item on the SFTP SERVER (SFTPd) page to import the SSH key-Ⓐ SSH private key to this unit.
3. Use "IMPORT CLIENT PUBLIC KEY" from the SFTPd:IMPORT KEY item on the SFTP SERVER (SFTPd) page to import the SSH key-Ⓑ SSH public key to this unit.
4. Set the connection settings of the SFTP client application used to connect to the SFTP server of this unit as follows.
   ① Select "SFTP (SSH File Transfer Protocol)" as the "connection protocol".
   ② Set this unit's IP address as the "host name".
   ③ Set the "log on type" to "key file".
   ④ Input "SS-R300N" as the "username".
   ⑤ Select SSH key-Ⓒ as the "key file".
5. Before connecting for the first time, check the fingerprint of the SSH key-Ⓐ "SFTP server private key for SFTPd functions".
   This fingerprint can be checked with "IMPORTED SERVER PRIVATE KEY" of the SFTPd:SHOW KEY INFO item on the SFTP SERVER (SFTPd) page. (See "Confirming fingerprint data of SSH keys for use by SFTP server/client functions" on page 111.)
6. Using the above settings, connect from the SFTP client application to this unit's SFTP server with the public key authentication method.
   When connecting for the first time, a host key confirmation message will be shown in the SFTP client application.
   Compare the fingerprint shown in this message and the fingerprint confirmed in step 5 for the SSH key-Ⓐ "SFTP server private key for SFTPd functions" to confirm authenticity.

   - **If the fingerprint matches completely**
     Selecting "OK" in the confirmation message will allow connection from the SFTP client application to this unit's SFTP server.
   - **If the fingerprint does not match completely**
     Since the connection of the SFTP client application might be a server that is not intended, select cancellation in the confirmation message to cancel SFTP connection.

SFTP client application with which operation has been confirmed

FileZilla (v3.69.6 / v3.70.6)

Example procedures for connecting from this unit to an external SFTP server

The following procedures are for connecting from this unit to an external SFTP server.

Connection procedures

1. Following "Generating SSH keys for use by SFTP server/client functions" on page 107, generate the following SSH keys for the SFTP client (SFTPc) function.

   SSH key-Ⓓ: SFTP client public key for SFTPc function (key registered on this unit that the external SFTP server uses to approve connection from this unit)

   File names when generated according to procedure (files with "_pub" not ".pub")
   Using ECDSA format: sftpc_client_ecdsa256_key_pub
   Using RSA format: sftpc_server_rsa2048_key_pub

   SSH key-Ⓔ: SFTP client private key for SFTPc functions (key registered on this unit to identify itself to external SFTP servers)

   File names when generated according to procedure
   Using ECDSA format: sftpc_client_ecdsa256_key
   Using RSA format: sftpc_server_rsa2048_key

2. Use "IMPORT CLIENT PUBLIC KEY" from the SFTPc:IMPORT KEY item on the SFTP CLIENT (SFTPc) page to import the SSH key-Ⓓ SSH public key to this unit.
3. Use "IMPORT CLIENT PRIVATE KEY" from the SFTPc:IMPORT KEY item on the SFTP CLIENT (SFTPc) page to import the SSH key-Ⓔ SSH private key to this unit.
4. Make the following settings on the SFTP server to be connected.

   ① Add a username, for example "SS-R300N".
   ② Register the SSH key-Ⓓ SFTP client public key for SFTPc function as the SSH key for this user.

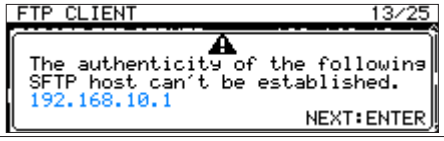
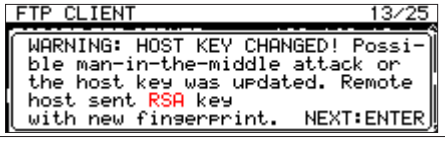
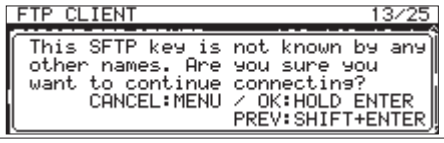
5. Set each of the items on the FTP CLIENT page as follows. (See "FTP client function settings" on page 100.)

   - Set the CLIENT MODE screen to "SFTP".
   - Set "SERVER ADDRESS" on the TARGET FTP SERVER screen to the address of the FTP server desired for connection.
   - Set "USER ID" on the TARGET FTP SERVER screen to the username set above ("SS-R300N" in this example) on the SFTP server being connected.
   - Leave the TARGET FOLDER NAME item blank for now because manual input is necessary before confirming the connection.

   NOTE

   Since this unit's SFTP function uses a public key authentication method, the PASSWORD setting of the TARGET FTP SERVER item on the FTP CLIENT page is not used.

6. Following the instructions in "Confirming fingerprint data of SSH keys for use by SFTP server/client functions" on page 111, check the fingerprint of the SSH public key for the SFTP server to connect.
7. Execute the ACCESS TEST item on the FTP CLIENT page to check the connection.
   When connecting the first time or after the server SSH key has been changed, a three-page confirmation pop-up message like these below will appear on the unit's display.
   The parts in red characters will change depending on the server key being used. The parts in blue characters are the connected host names.

When connecting the first time	When server SSH key has changed
	
	
	

NOTE

The display of this unit is monochrome, but this document uses different colors for some characters for the purpose of explanation.

8. Compare the fingerprint shown on the second page of this message and the fingerprint confirmed in step 6 of the SSH public key for the connecting SFTP server to confirm authenticity.
   - **If the fingerprint matches completely**
     On the third page of this message, press and hold the MULTI JOG dial to receive the key data of the SFTP server shown in the message.
     By doing this, the key data of the accepted SFTP server will be saved in the built-in memory of this unit, enabling connection to that server without showing this confirmation message when SFTP connection with it starts in the future.
     Moreover, the key data saved this way can be checked on the SFTP CLIENT (SFTPc) page with "CONNECTED SFTP SERVER KEY" for the SFTPc:SHOW KEY INFO item
   - **If the fingerprint does not match completely**
     Since the connecting SFTP server might be one that is not intended, press the MENU [BROWSE] button to cancel SFTP connection.
9. After confirming that the fingerprint matches completely, execute the ACCESS TEST item on the FTP CLIENT page again to check the connection.
   If a "Connection OK, Folder OK" message is shown here, a normal SFTP server connection has been confirmed.
10. In this state, select "FTP" in the root of the BROWSE screen and press the MULTI JOG dial to show a list of the folders and files on the FTP server.
    (The BROWSE screen of this unit will (by design) show "FTP" even when connected by SFTP.)

Confirmed SFTP server

OpenSSH 9.6p1 (Ubuntu environment)

Precautions when using the TIMER EVENT and AUTO UPLOAD functions to exchange files with an SFTP server

When using the TIMER EVENT and AUTO UPLOAD functions to exchange files with an SFTP server, the procedures above must be followed and a public key for the SFTP server must be accepted in advance.
If acceptance procedures have not been conducted, automatically starting transmission with an SFTP server using these functions will result in the confirmation message shown in procedure 7 above being shown continuously and connection with the server failing.
As a result, this status will not allow the execution of file exchanges either. Please be aware of this.

For this reason, always conduct operations to accept public keys before using these functions.

FTP server functions

By using an FTP client application on a computer, you can transfer files between this unit and the computer. Connect to this unit and log in as you would with another FTP server.

When you connect and log in, "A:", "B:" and "C:" will appear in the root directory. These correspond to the media loaded in "SD1", "SD2" and "USB".

If the corresponding media are not loaded, nothing will appear after "A:", "B:" and "C:".

NOTE

- CDs cannot be accessed using FTP server functions.
- For information about FTP client applications that have already been confirmed to work with this unit, please contact the TASCAM customer support service.

Required settings for FTP connection

The following settings are necessary to connect to this unit by FTP.

IP address: The IP address of the unit is shown in the IP ADDRESS item on the NETWORK 1 page.

Port number: 21

Username: SS-R300N Case-sensitive (cannot be changed)

Password: The default password is different for each unit. Check the PASSWORD Screen for the password of the unit being used. (Case-sensitive) This can be changed on the PASSWORD screen. (See "Network function settings" on page 98.)

NOTE

- The simultaneous connection number is "1".
- Depending on the FTP client application, you might be able to connect 2 of these units by FTP simultaneously, but this could cause normal file transmission to fail. For this reason, we recommend that you do not simultaneously connect 2 units by FTP.
- FTP connection is not possible when 232C/PARA/NETWORK is set to "LOCK" on the LOCK SETUP screen. (See "Setting the lock function" on page 31.)
- If the setting is changed to "LOCK" when there is an FTP connection, the connection will be interrupted.
- If a NETWORK 1 or NETWORK 2 page setting is changed when there is an FTP connection, the connection will be interrupted.
- Depending on the FTP client application, when connecting to this unit by FTP or FTPS, file times might be shown offset by the amount set for the unit's SNTP TIME ZONE. In this case, change the "server time adjustment offset" or similar setting in the FTP client application so that the desired file time is shown.
- The FTP server function only supports unencrypted FTP connections. Encrypted transmission using, for example, FTPS (Implicit mode) or FTPES (Explicit mode) is not supported. When using this, connect from an FTP client that does not use encryption.
- The FTP server function supports both active and passive.

Overview of file operations using an FTP client application

1. Reading files from the unit
   Except for the file that is currently being recorded, reading files from the unit is always possible.
2. Adding new files to the unit
   Adding new files to the unit is always possible.
   If BWF, WAV, MP3 or AAC files are added to the current folder during recording, files will be shown in the list in order from existing files to recorded files and then added files.
3. Overwriting existing files on the unit
   The current file can only be overwritten when the unit is stopped.
   Overwriting all other existing files on the unit is always possible. However, if the PLAY MODE item on the PLAY MODE screen is set to "ALL" and the unit is playing, overwriting the file after the current file might not be possible depending on the timing. (See "Setting the play mode" on page 37.)

   ATTENTION

   - Problems might occur if the size, number of channels, bit depth or sampling frequency of the overwritten file differs from the original file.
     An error message might appear if playback is attempted when a problem has occurred.
     Delete that file from the USB flash drive or SD card to resolve the problem and stop the error message from appearing.
   - Do not overwrite existing audio files with files that use different sampling frequencies. Doing so could make it impossible to resolve the problem
4. Deleting files on the unit
   The current file can only be deleted when the unit is stopped.
   Files other than the current file can be deleted at any time. Since discrepancies between system and audio files will occur after deleting a file, system files will be automatically updated (after stopping if playing back or recording).
   A "WRITING SYSTEM FILE" pop-up message will appear at such times.

   ATTENTION

   Playback and recording are not possible while management files are being updated.
   Be aware of the timing when deleting folders and files from an FTP client.
5. Adding new folders to the unit
   Adding new folders to the unit is always possible.
6. Deleting folders on the unit
   The current folder can only be deleted when the unit is stopped.
   Folders other than the current folder can be deleted at any time.
7. Change the names of files and folders on the unit
   The names of files and folders on the unit cannot be changed.

Control using Telnet

Remote control of this unit by Ethernet using Telnet through port 23 is possible.

Required settings for Telnet connection

The following settings are necessary to connect to this unit by Telnet.

IP address: The IP address of the unit is shown in the IP ADDRESS item on the NETWORK 1 page.

Port number: 23

Password: The default password is different for each unit. Check the PASSWORD Screen for the password of the unit being used. (Case-sensitive) This can be changed on the PASSWORD screen. (See "Network function settings" on page 98.)

Connecting to this unit by Telnet

1. After connecting to this unit by Telnet with the above IP address and port number, press the computer Enter key.
2. "Enter Password" will appear on the Telnet console. Input the above password and press the Enter key.
3. When login succeeds, "Login Successful" will appear on the Telnet console.
   Input "exit" and press the Enter key to end the Telnet connection.

ATTENTION

When using Telnet, transmitted content is not encrypted, so this is not suitable for secure communication environments. Restrict use of this to local network (LAN) environments.

NOTE

- A password must be set.
- Three Telnet connections are possible at the same time.
- Telnet connection is not possible when 232C/PARA/NETWORK is set to "LOCK" on the LOCK SETUP screen. If the setting is changed to "LOCK" when there is a Telnet connection, the connection will be interrupted. (See "Setting the lock function" on page 31.)
- If a NETWORK 1 or NETWORK 2 page setting is changed when there is an Telnet connection, the connection will be interrupted.
- For information about this unit's Telnet command protocol, please contact the TASCAM customer support service.

Control using OSC (Open Sound Control)

Remote control of this unit by UDP through port 54826 is possible.

ATTENTION

When using OSC, transmitted content is not encrypted, so this is not suitable for secure communication environments. Restrict use of this to local network (LAN) environments.

NOTE

- For information about the OSC command protocol, please contact TASCAM customer support (contact information at the end of this manual).
- Remote control using UDP is not possible when 232C/PARA/NETWORK is set to LOCK on the LOCK SETUP screen.

Setting the SNTP function

Use the SNTP page to make settings for automatically synchronizing with the date and time of an Internet time server.



SNTP STATUS

This shows the current status of the SNTP function.

Message	Status
SUCCESSFUL UPDATE	The time was updated properly.
SUCCESS UPDATE (SKEW)	A delay occurred, but the time was updated.
STARTING UP	The unit is preparing for operation.
ACCESSING SERVER	The unit is connecting with a server.
DISABLED	The SNTP function is disabled.
WAITING FOR NETWORK	The unit is waiting to confirm the network connection.
SERVER NAME NOT FOUND	The server name could not be found on the DNS server.
SERVER NAME FOUND	The server name was found on the DNS server.
SERVER CONNECT FAILED	The server has not responded.
REFUSING CONNECTIONS	Server responded, but is refusing additional connections; select a different SNTP server.

SNTP UPDATE

This shows the setting status of the MODE item on the SNTP UPDATE screen.

Select SNTP UPDATE, and open the SNTP UPDATE screen. (See "Menu operation procedures" on page 23.)



MODE item:

Set the SNTP function update mode.

Option	Meaning
DISABLE (default)	Do not use an SNTP function update mode.
START UP	When the unit starts up, get the time from an NTP server and use it to set the built-in clock.
START UP/24CYCLE	Get the time from an NTP server and use it to set the built-in clock when the unit starts up, as well as when the time set with the TIME item occurs every 24 hours.

TIME item:

Set the time to acquire the time from the NTP server.

Options: 00:00 - 00:09 – 23:00 - 23:09 (01:00 steps) (default: 00:00 - 00:09)

NOTE

- When using the SNTP function, you must set the NETWORK 1 page DNS SETUP item and the NTP Server item, which is explained below.
- On this screen, local time is set, not Coordinated Universal Time (UTC).
- Since access to SNTP servers on the hour could result in congestion, the unit will access the SNTP server randomly during the first 10 minutes of the hour.

NTP SERVER

This shows the setting status of the NTP SERVER screen.

Select NTP SERVER, and open the NTP SERVER screen. (See "Menu operation procedures" on page 23.)



Edit the NTP server name or IP address, which must have no more than 32 characters (default: ntp.nict.jp).

An IP address can also be added.

For details about how to edit the text, see "Editing text" on page 71.

NOTE

Press the MULTI JOG dial on "PRESET ▲" to open a pull up menu.



Turn the MULTI JOG dial to select a menu item, and press the MULTI JOG dial to input the preset value of that item.

Press the MENU [BROWSE] button to close the pull-up menu.

TIME ZONE

This shows the setting status of the TIME ZONE item on the TIME ZONE screen.

Select TIME ZONE, and press the MULTI JOG dial to open the TIME ZONE screen. (See "Menu operation procedures" on page 23.)



TIME ZONE item:

Set the time offset from Coordinated Universal Time (UTC).

Options: –12:00 – +14:00 (00:15/step) (default: +09:00)

NOTE

- To use Japan Standard Time (JST), set this to "+09:00".
- For the United States, use one of the following settings.

Zone	Setting
Pacific Standard Time (PST) zone	–08:00
Mountain Standard Time (MST) zone	–07:00
Central Standard Time (CST) zone	–06:00
Eastern Standard Time (EST) zone	–05:00

DAYLIGHT SAVING

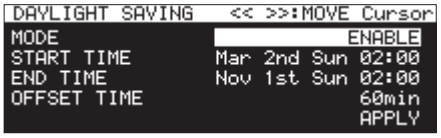
This is the settings screen for the daylight saving time function, which advances the built-in clock during the set period.

This shows the setting status of the MODE item on the DAYLIGHT SAVING screen.

Select "ENABLE" for the MODE, and press the MULTI JOG dial to show the daylight saving time function setting. (See "Menu operation procedures" on page 23.)



MODE set to "DISABLE"



MODE set to "ENABLE"

MODE item:

Set whether or not to enable the daylight saving time function.

Options	Meaning
DISABLE (default)	Do not use the daylight saving time function.
ENABLE	Use the daylight saving time function.

START TIME/END TIME items:

Set when to start and end use of the daylight saving time function.

Setting item	Options
Month	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec
Week	1st, 2nd, 3rd, 4th, 5th, Last
Day	Sun, Mon, Tue, Wed, Thu, Fri, Sat
Time	00:00 – 24:00 (01:00/step)

START TIME defaults: Mar/2nd/Sun/02:00

END TIME defaults: Nov/1st/Sun/02:00

OFFSET TIME item: Set the amount to advance the clock during daylight saving time.

Options: 30min, 60min (default)

NOTE

On this screen, local time is set, not Coordinated Universal Time (UTC).

When the MODE item is set to "ENABLE", press the MULTI JOG dial on "APPLY" in the last line to confirm the changed settings and return to the Menu Screen.

NOTE

Press the MENU [BROWSE] button to cancel the menu operation and return to the Menu Screen.

Power on action function setting

By using a commercially-available timer or other external device to turn this unit on, you can make this unit start playing or recording at a desired time.

1. Connect the unit to the timer so that it receives power from the timer's power output.
2. Load the current media to use for playback or recording and make the necessary settings.
3. Select POWER ON ACTION on the UTILITY page, and open the POWER ON ACTION screen. (See "Menu operation procedures" on page 23.)



4. Select the MODE item, and set the power on action (behavior at time set by external timer).

Option	Meaning
OFF (default)	This turns the unit off (puts it in standby).
STOP	This turns the unit on in a stopped state.
PLAY	This turns the unit on, and it automatically starts playback.
REC	This turns the unit on, and it automatically starts recording.

5. Confirm the setting and return to the Menu Screen.
6. Set the external timer to the desired time.
   When the set time is reached, the set power on action will begin.

Adjusting the analog output

If sound distorts from an output destination device at maximum output level, you can use this unit's analog output level function, which lowers the output level, to stop distortion.

1. Select OUTPUT LEVEL on the UTILITY page to open the OUTPUT LEVEL screen. (See "Menu operation procedures" on page 23.)



2. Set the analog output level.

   Options: –16.0 dB – 6.0 dB
   (default: 0.0 dB) (0.5 dB increments)

3. Confirm the setting and return to the Menu Screen.

Setting the remote power control function

The unit can be set to allow it to be turned on by an external controller when it is off (in standby).

1. Select REMOTE POWER CONTROL on the UTILITY page, and open the REMOTE POWER CONTROL screen. (See "Menu operation procedures" on page 23.)



2. Select the MODE item, and set the remote power control function.

Option	Meaning
OFF (default)	The power cannot be turned on from an external controller.
ON	The power can be turned on and off from an external controller.

3. Confirm the setting and return to the Menu Screen.

ATTENTION

The remote power control function cannot be used in Europe.

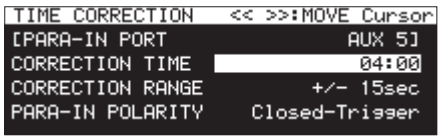
TIME CORRECTION function

Using the TIME CORRECTION function enables time correction for the unit even in offline conditions where time synchronization with an NTP server is not possible.

When this unit receives a time synchronization signal from the port specified with PARA-IN PORT, the internal clock time uses the CORRECTION TIME as a reference and if within the range set by CORRECTION RANGE, the internal clock is corrected to the CORRECTION TIME.

If PARA-IN POLARITY is set to "Closed-Trigger", time correction will occur at the moment when the synchronization signal changes from high to low.

1. Select TIME CORRECTION on the UTILITY page to open the TIME CORRECTION screen. (See "Menu operation procedures" on page 23.)



2. Set the TIME CORRECTION function.

   Settings example

   - PARA-IN PORT: AUX 5
   - CORRECTION TIME: 04:00
   - CORRECTION RANGE: +/– 15sec
   - PARA-IN POLARITY: Closed-Trigger

   In this case if the internal clock is between 03:59:45 and 04:00:15, at the moment when a synchronization signal input through AUX 5 changes from high to low, the internal clock will be corrected to 04:00:00.

3. Confirm the setting and return to the Menu Screen.

PARA-IN PORT

This shows the port used to receive time synchronization signals. (See "Assigning functions to PARALLEL input connectors" on page 33.)

CORRECTION TIME

This sets the time used as a reference for time correction.

Setting range: 00:00 – 23:00
(in 1 hour intervals, default: 04:00)

CORRECTION RANGE

This sets the range in which to conduct time synchronization.

Options: +/–15sec (default), +/–30sec

This sets the permitted range in which to conduct time correction.

Options: +/–15sec (default), +/–30sec

PARA-IN POLARITY

This sets the detection conditions for synchronization signals.

Options: Closed-Trigger (default), Open-Trigger

Setting the reference level

You can set the analog input and output headroom (difference between the maximum and reference levels).

1. Select REFERENCE LEVEL on the PREFERENCES page, and open the REFERENCE LEVEL screen. (See "Menu operation procedures" on page 23.)



2. Set the reference level.

Option	Meaning
–9 dB	+6dBu standard level, +15dBu maximum level
–14 dB	+4dBu standard level, +18dBu maximum level
–16 dB (default)	+4dBu standard level, +20dBu maximum level
–18 dB	+4dBu standard level, +22dBu maximum level
–20 dB	+4dBu standard level, +24dBu maximum level

3. Confirm the setting and return to the Menu Screen.

Setting the peak hold display

The peak hold display used for the level meters can be set.

1. Select PEAK HOLD TIME on the PREFERENCES page to open the PEAK HOLD TIME screen. (See "Menu operation procedures" on page 23.)



2. Set the peak hold time for the level meters.

   Options: 0sec – 10sec, INF. (hold without end)
   (default: 1sec)

3. Confirm the setting and return to the Menu Screen.

NOTE

Press and hold the SHIFT [HOLD (PEAK CLEAR)] button to clear the peak hold indicators.

Using a USB keyboard to operate the unit

You can connect a Windows-compatible USB keyboard or numeric keypad to the USB port on the front of the unit, and use it to control the unit.
Various controls are possible, but it makes inputting text much more efficient.

Setting the keyboard type

Set the type of keyboard being connected.

1. Select KEYBOARD on the PREFERENCES page to open the KEYBOARD TYPE screen. (See "Menu operation procedures" on page 23.)



2. Set the type of USB keyboard.

Options	Meaning
JPN (default)	Keyboard designed for Japanese
US	Keyboard designed for English

3. Confirm the setting and return to the Menu Screen.

Using the keyboard to input names and values

You can edit and input characters for the following items in the same way as with a computer.

- Folder names (See "Creating new folders" on page 55.)
- File names (See "Editing folder and file names" on page 53.)
- Passwords (See "Network function settings" on page 98.)
- NTP server names (See "Setting the SNTP function" on page 116.)
- Mark names (See "Editing mark names" on page 95.)

You can also input numbers for the following items.

- Locating to a specific time (See "Locating to a specific time" on page 97.)
- User-set file names 1–5 (See "Setting the file name format" on page 71.)
- FTP server names (See "FTP client function settings" on page 100.)
- FTP user ID (See "FTP client function settings" on page 100.)
- FTP target folder names (See "FTP client function settings" on page 100.)
- Timer event playback path names (See "Selecting files for playback" on page 89.)
- Timer event download target path names (See "Setting folders/files to use for FTP server download" on page 90.)

Selecting the type of character input:

Use the Shift and Caps Lock keys to change the type of character input in the same way as with a computer.

Inputting characters:

Use the number, character and symbol keys to input characters directly.

Moving the cursor:

Use the ← and → keys.
Use the HOME/↑ key to move the cursor to the beginning.
Use the END/↓ key to move the cursor to the end.

Deleting a character:

Delete key: delete character at cursor
Back Space key: delete character before cursor

Inserting characters:

Input the character at the desired position (default: insert mode).
If the character input mode is not set to the default insert mode, press the Insert key to switch to insert mode before inputting characters.

Correcting characters:

Press the Insert key to switch to overwrite mode, move the cursor and input the correct character.

ATTENTION

- The following symbols and punctuation marks cannot be used in text.
  / : * ? " " < > |
- Japanese characters cannot be input.

You can also input values on the following screens.

- EDIT MARK TIME screen (See "Editing mark locations" on page 96.)
- IP SETUP screen (See "Network function settings" on page 98.)
- DNS SETUP screen (See "Network function settings" on page 98.)

When these screens are open, use the ← or / (slash) key to move the cursor left and the → or Enter key to move it right.
On the IP SETUP and DNS SETUP screens, use the " . " (decimal point) key to move the cursor right.
Use the ↑ or + key to increase values.
Use the ↓ or – key to decrease values.

List of keyboard operations

In addition to inputting names, you can also use the keyboard for transport control, editing and various other operations.

The functions of buttons on the front of the unit are assigned to the keyboard as follows. Character input and control modes switch automatically according to the unit operation.

Transport operations

Keyboard key	Function
← key	Same as ◄◄ [EDIT] button
→ key	Same as, ►► [FADE] button
Space bar	Same as PLAY and PAUSE [CALL] buttons
Ctrl + P key	Same as PLAY button
Ctrl + S key	Same as STOP button
Ctrl+R key	Same as RECORD [TRK INC] button
Ctrl + F key	Track skip (FWD)
Ctrl + B key	Track skip (REW)
↑ key	Same as turning the MULTI JOG dial right on the Home Screen (move to next mark)
↓ key	Same as turning the MULTI JOG dial left on the Home Screen (move to previous mark)

Operations on menu, browse and other screens

Keyboard key	Function
Esc key	Cancel editing, including text, and return to the Home Screen
F1 key	Open the INFORMATION screen
F2 key	Open the Menu Screen
F3 key	Open the EDIT menu
F4 key	Open the BROWSE screen
F5 key	Turn repeat playback on/off
F6 key	Turn A-B repeat playback on/off
F7 key	Turn the pitch control function on/off
F8 key	Turn the key control function on/off
F9 key	Turn the auto cue function on/off
F10 key	Turn the auto ready function on/off
F11 key	Turn the incremental playback function on/off
F12 key	Start flash loading
Shift + F5 key	Set WAV file bit length
Shift + F6 key	Open recording format screen
Shift + F7 key	Set MP3 file bit rate
Shift + F8 key	Turn automatic track function on/off
Shift + F9 key	Turn synchronized recording function on/off
Shift + F10 key	Turn sampling rate converter on/off
Ctrl + F1 key	After flash loading completes, flash start playback of track 1
Ctrl + F2 key	After flash loading completes, flash start playback of track 2
Ctrl + F3 key	After flash loading completes, flash start playback of track 3
Ctrl + F4 key	After flash loading completes, flash start playback of track 4
Ctrl + F5 key	After flash loading completes, flash start playback of track 5
Ctrl + F6 key	After flash loading completes, flash start playback of track 6
Ctrl + F7 key	After flash loading completes, flash start playback of track 7
Ctrl + F8 key	After flash loading completes, flash start playback of track 8
Ctrl + F9 key	After flash loading completes, flash start playback of track 9
Ctrl + F10 key	After flash loading completes, flash start playback of track 10
Ctrl + F11 key	After flash loading completes, flash start playback of track 11
Ctrl + F12 key	After flash loading completes, flash start playback of track 12
Ctrl + C key	Turn the call function on/off
Ctrl + I key	Select the input source
Ctrl + J key	Enable jog playback mode
Ctrl + K key	Open the time skip settings screen.
Ctrl + L key	Open the lock function settings screen
Ctrl + M key	Open the MEDIA SELECT screen
Caps Lock key	Lock/unlock use of uppercase English letters
Back Space key	Delete character before cursor
Enter key	Same as pressing the MULTI JOG dial
Insert key	Insert a character at the cursor position
Home key	Same as HOME [INFO] button
Delete key	Delete character at cursor position
↑ key	Same as turning the MULTI JOG dial
↓ key	
← key	Same as pressing the ◄◄ [EDIT] button
→ key	Same as pressing the ►► [FADE] button
Shift + ↑ key	Adjust the display contrast
Shift + ↓ key	
Ctrl + ↑ key	Adjust the pitch in ±1% increments with the pitch control function
Ctrl + ↓ key	
Ctrl + ← key	Adjust the key with the key control function
Ctrl + → key	
Number keys	Input numbers
* (asterisk) key	Enable locate time input

Numeric keypad (only transport operations)

Keyboard key	Function
. (decimal point) key	Same as STOP button
0 key	Same as PLAY and PAUSE buttons
1 key	Search backward
2 key	Search forward
3 key	Same as RECORD button
7 key	Skip to an earlier track
8 key	Skip to a later track
9 key	Same as PAUSE button
/ (slash) key	Enable jog playback mode
– key	Same as turning the MULTI JOG dial left (move to previous mark)
+ key	Same as turning the MULTI JOG dial right (move to next mark)
Enter key	Same as pressing the MULTI JOG dial (add/remove mark)

NOTE

Press the key for the desired editing function on the keyboard when the BROWSE screen is open.

Example: using the DELETE function

Press the F4 key to open the BROWSE screen.

Use the ↑/↓/←/→ keys to select the file you want to delete.

Press the Enter key to open the BROWSE screen folder or file pop-up menu.

Use the ↑/↓ keys to select the DELETE item.

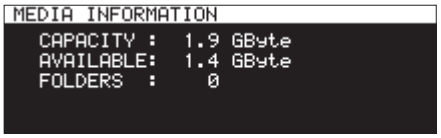
Press the Enter key to open a confirmation message on the display. Press the Enter key again.

When a reconfirmation message appears, press and hold the Enter key again.

Viewing media information

You can view information about the current medium.

1. Select MEDIA INFORMATION on the MEDIA page to open the MEDIA INFORMATION screen. (See "Menu operation procedures" on page 23.)
   You can view information about the current medium, and check its total capacity, open space and other use conditions.



2. Press the MULTI JOG dial to return to the menu screen.

Rebuilding media

This rebuilds the file and folder management data of the current media.

1. On the MEDIA page, select the MEDIA REBUILD item. (See "Menu operation procedures" on page 23.)
2. Press the MULTI JOG dial.
   A confirmation pop-up message will appear.



3. Press and hold the MULTI JOG dial again to start rebuilding.
   A "Rebuilding All..." pop-up will appear. After it completes, the Menu Screen will reopen.

NOTE

When media that have files or folders added are loaded in this unit, management data will automatically be updated.

Restoring factory default settings

You can restore the various settings stored in the backup memory of the unit to their factory default values.
Use the following menu procedures to do so.

1. Select FACTORY PRESET on the SYSTEM 1 page. (See "Menu operation procedures" on page 23.)
2. Press the MULTI JOG dial.
   A confirmation pop-up message will appear.



NOTE

Press the MENU [BROWSE] button to cancel execution.

3. Press the MULTI JOG dial again to restore the factory default settings.
   A "READING MEDIA..." pop-up will appear. After it completes, the Menu Screen will reopen.

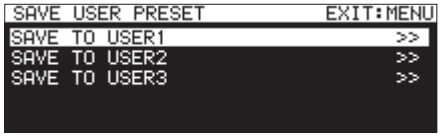
Saving and loading user settings

This unit can store three sets of user setting data in its built-in memory.

Saving user settings

This unit can save user setting data in its built-in memory.

1. Select SAVE USER PRESET on the SYSTEM 1 page to open the SAVE USER PRESET screen. (See "Menu operation procedures" on page 23.)



2. Select SAVE TO USER1 – SAVE TO USER3 as the destination to save the settings, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.



3. When the confirmation message is open, press and hold the MULTI JOG dial to begin saving the user settings to the built-in memory.
   After saving completes, the SAVE USER PRESET screen reopens.

Loading user settings

This unit can load saved user settings from its built-in memory.

1. Select LOAD USER PRESET on the SYSTEM 1 page to open the LOAD USER PRESET screen. (See "Menu operation procedures" on page 23.)



2. Select LOAD USER1 – LOAD USER3 to load the settings in that preset, and press the MULTI JOG dial.
   A confirmation pop-up message will appear.



3. When the confirmation message is open, press and hold the MULTI JOG dial to begin loading the user settings from the built-in memory.
   After saving completes, the LOAD USER PRESET screen reopens.

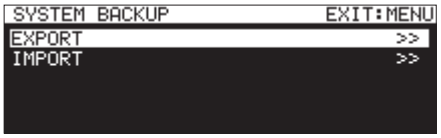
Exporting/importing system backup data (USB flash drives and SD cards only)

You can export system backup data from the unit's built-in memory to an SD card or USB flash drive loaded in the unit. You can also import this data.

NOTE

Exporting and importing are not possible when the current medium is "CD".

1. Select SYSTEM BACKUP on the SYSTEM 1 page to open the SYSTEM BACKUP screen. (See "Menu operation procedures" on page 23.)



2. Select whether to export or import system backup data to or from the SD card or USB flash drive.
   EXPORT: Export system backup data to the SD card or USB flash drive.
   IMPORT: Import system backup data from the SD card or USB flash drive.
3. Press the MULTI JOG dial.
   A confirmation pop-up message will appear.



Pop-up message when set to "EXPORT"



Pop-up message when set to "IMPORT"

4. When the confirmation message is open, press and hold the MULTI JOG dial to begin exporting to or importing from the SD card or USB flash drive.
   When exporting/importing ends, the SYSTEM BACKUP screen reopens.

- The following setting items are saved and loaded with system backup data.

Screen name	Page name	Setting item
Home Screen		Time counter display mode
LOCK SETUP screen		All settings
Menu Screen	GENERAL page	TIMER EVENT item
	PLAY 1 page	All settings
	PLAY 2 page	All settings
	PLAY 3 page	All settings
	PLAY 4 page	All settings
	REC 1 page	All settings
	REC 2 page	All settings
	REC 3 page	All settings
	REC 4 page	All settings
	NETWORK 1 page	All settings
	NETWORK 2 page	LINK LOSS DETECT item
	FTP CLIENT page	TARGET FTP SERVER screen SERVER ADDRESS and USER ID items
		CLIENT MODE item
		TARGET FOLDER NAME item
		AUTO UPLOAD item
	SNTP page	All settings
	UTILITY page	All settings
	PREFERENCES page	All settings
	USER KEY ASSIGN	All settings
	REMOTE page	All settings
	PARALLEL INPUT ASSIGN	All settings
	PARALLEL OUTPUT ASSIGN	All settings

Checking the firmware version

You can check the version of the system firmware used by the unit.

1. Select VERSION on the SYSTEM 2 page to open the VERSION screen. (See "Menu operation procedures" on page 23.)



   On the VERSION screen, information is shown about the system firmware version, build number, FPGA firmware version, CD drive firmware version and operating time.

2. Press the MENU [BROWSE] button to return to the Menu Screen.

Firmware update procedures (USB flash drives and SD cards only)

NOTE

Updating is not possible when the current medium is "CD".

1. Download the latest firmware from the TASCAM website (https://tascam.jp/int/product/ss-r300n/support). Decompress the downloaded file if it is in ZIP format or another compressed file type.
2. Copy the downloaded firmware to the root level of the medium.
3. Load the medium prepared in step **2** in an SD card slot or the USB port on the front of the unit.
4. Set that medium as the current medium on the MEDIA SELECT screen.
5. Select UPDATE on the SYSTEM 2 page to open the FIRMWARE UPDATE screen. (See "Menu operation procedures" on page 23.)



SYSTEM item

Update the unit's firmware.

FPGA item

Update the unit's FPGA.

RC-SS150 item

Update the firmware of a TASCAM RC-SS150 remote control.

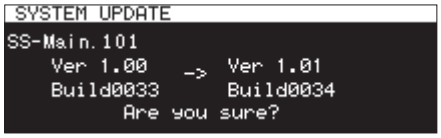
6. Select the item to update, and press the MULTI JOG dial.
After the medium and firmware update file have been verified, the following screen will appear.



NOTE

- The screen above shows a list of firmware update files in the root folder of the current medium. The firmware copied in step **2** above should also be shown.
  "No Update File" is shown if no update file is in the directory.
- A maximum of five lines of firmware can be shown at the same time. If there are more files than can be shown on the display at once, use the MULTI JOG dial to scroll the list.
- The screen shown above is an example. The actual appearance will differ.

7. Select the firmware update to use.
The screen shown below will appear.



The number of the current version is shown on the left and the update version is shown on the right.

NOTE

The screen shown above is an example. The actual appearance will differ.

8. Press the MULTI JOG dial to start updating.

ATTENTION

- Be careful not to let the power be interrupted during the update.
- If the power is interrupted during the update, the unit might become unstartable.

9. When the update completes, the following message will appear.



10. When the unit automatically turns off after the message appears, turn it on again.

11. Confirm that the latest firmware is being used. This completes the update procedure. (See "Checking the firmware version" on page 124.)

12. Delete the firmware update file from the medium.

15 - Using the Remote Control Connectors

Using the RS-232C connector

Using the RS-232C connector (9-pin D-sub RS-232C standard) on the back of the unit, this unit can be operated by a computer or other external device by serial control. In addition, flash starting by remote control is possible if a TASCAM RC-SS150 (sold separately) is connected.

Select RS-232C on the REMOTE page to open the RS-232C screen. (See "Menu operation procedures" on page 23.)



Setting the transmission speed (baud rate)

Select BAUD RATE, and set the transmission speed (baud rate).

Options: 4800bps, 9600bps, 19200bps, 38400bps, 57600bps (default)

Setting the parity bit

Select PARITY BIT, and set whether or not there is a parity bit.

Options: NONE (none, default value), EVEN (even), ODD (odd)

Setting the stop bit

Select STOP BIT, and set the stop bit.

Options: 1 (default), 2

Set the data length

Select DATA LENGTH, and set the data length.

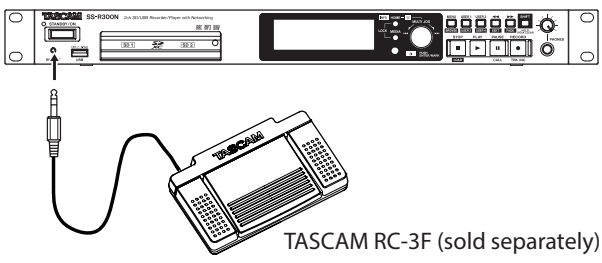
Options: 7bit, 8bit (default)

NOTE

- The 9 pin of this unit's RS-232C connector is used to supply 12V power to the TASCAM RC-SS150 Do not use it to supply power to any other device. The 9 pin of ordinary computer RS-232C connectors is unused, so commercially-available RS-232C cables can be used for connection.
- For information about this unit's RS-232C command protocol, please contact the TASCAM customer support service.

Using a footswitch (TASCAM RC-3F)

You can use a TASCAM RC-3F footswitch (sold separately) connected to the REMOTE jack on the front of this unit to control it.



TASCAM RC-3F (sold separately)

Setting up the footswitch

1. Select RC-3F MODE on the REMOTE page to open the RC-3F MODE screen. (See "Menu operation procedures" on page 23.)



2. Select one of the three pedal assignment modes.

Option	Meaning
MODE1 (default)	This mode is optimal for recording minutes of meetings, for example.
MODE2	This mode provides basic transport remote control.
MODE3	Use this mode for the pitch control function.

3. Confirm the setting and return to the Menu Screen.

Using the footswitch

Press the pedals of the footswitch to use the operations assigned to them by the RC-3F MODE item.

Footswitch pedal assignments

MODE	Footswitch		
	L (press)	C (press)	R (press)
	L (press and hold)	C (release)	R (press and hold)
1	I◄◄	PLAY	►►I
	◄◄	PAUSE/STOP	►►
2	I◄◄	PLAY/PAUSE	►►I
	◄◄	---	►►
3	PITCH (–) 1% increments	PLAY/PAUSE	PITCH (+) 1% increments
	---	---	---

Setting the RECORD Tally

If "RECORD Tally" is assigned to PARALLEL Connector pins 9–13 for OUTPUT AUX 1–5, the conditions when RECORD Tally is output can be set.

1. Select the RECORD TALLY item on the REMOTE page and open the RECORD TALLY screen. (See "Menu operation procedures" on page 23.)



2. Set the output mode of the PARALLEL connector pin 11 (RECORD Tally) when recording is paused.

Option	Meaning
REC ONLY (default)	Output Record Tally when recording (low state).
REC PAUSE/REC	Output Record Tally when recording or recording is paused (low state).

3. Confirm the setting and return to the Menu Screen.

The following is a list of messages that appear in pop-up windows.
Refer to this list if one of these pop-up messages appears on the SS-R300N and you want to check the meaning or determine a proper response.

Message	Meaning	Note
Backup REC is not available. (MM is not available)	Backup recording is disabled because the medium cannot be used.	MM = SD1, SD2 or USB
Backup REC is not available. MM formatting not optimal for Recording.	Backup recording is disabled because the medium has not been formatted by this unit and cannot be guaranteed to properly record. Format it with this unit before use.	MM = SD1, SD2 or USB
CHANGING FS	The sampling frequency used by this unit is being changed.	
Cannot add timer event. Timer event limit reached.	The limit has been reached so no more timer events can be added.	
Cannot Change Now "X" already assigned to INPUT AUX N, change that setting first.	Multiple FADER REC and FADER START settings cannot be made for INPUT AUX.	X: "FADER REC" or "FADER START" N: 1–5
Cannot change while playing.	This setting cannot be changed during playback.	
Cannot change while recording.	This setting cannot be changed when recording.	
Cannot Copy. "ffffffff" already exist in current folder.	You tried to copy a file to the current folder. The current folder, however, already contained a file with the same name as the file being copied.	ffffffff = file name
Cannot Copy File. "ffffffff" already exist in Destination.	The selected file already exists in the copy destination, so it cannot be copied.	ffffffff = file name
Cannot Copy Folder. "ffffffff" already exist in Destination.	The selected folder already exists in the copy destination, so it cannot be copied.	ffffffff = folder name
Cannot Copy for Insert. "ffffffff" already exist in current folder.	The selected file already exists in the current folder, so it cannot be inserted.	ffffffff = file name
Cannot Copy. Source folder and Destination folder is same.	The copy source folder and destination folder are the same, so copying is not possible.	
Cannot Copy. Destination folder is sub-folder of source folder.	The copy destination folder is a subfolder of the copy source folder, so copying is not possible.	
Cannot create new file/folder. Media Full.	There is no open space on the medium, so a new file or folder cannot be created.	
Cannot create new mark point. Mark point already exists at the same timestamp.	You are trying to create a mark where one already exists. A time position cannot have more than one mark.	
Cannot edit this mark point. Mark point already exists at the same timestamp.	The mark cannot be edited because another mark already exists at that time.	
Cannot Edit read-only file.	The file is read only and cannot be edited.	
Cannot execute combine. Combine file size is over XXX.	The file size after combination would exceed 4 GB, so combining is not possible.	
Cannot execute combine. Media Full.	The medium does not have enough open space so combining is not possible.	
Cannot execute. Media Full.	The medium does not have enough open space so execution is not possible.	
Cannot IMPORT "ffffffff" XXXX-bit key is NOT supported.	Since the bit length is not supported, the SSH key file cannot be imported.	ffffffff = file name XXX = bit length
Cannot IMPORT "ffffffff" This file is "PRIVATE" Key. This menu is for "PUBLIC" Key.	This file is a private key. Since this menu is for public keys, it cannot be imported.	ffffffff = file name

Message	Meaning	Note
Cannot IMPORT "ffffffff" This file is "PUBLIC" Key. This menu is for "PRIVATE" Key.	This file is a public key. Since this menu is for private keys, it cannot be imported.	ffffffff = file name
Cannot IMPORT "ffffffff" Unsupported File Format.	Since the file format is not supported, the SSH key file cannot be imported.	ffffffff = file name
Cannot increment Track Interval is too short.	Either you pressed the RECORD [TRK INC] button within the first 4 seconds of recording, or writing to the medium was too slow, so starting to record a new track is not possible.	
Cannot increment Track System limit reached. Please create new Folder.	The number of files in the folder or total number of files and directories, for example, is too great, so starting to record a new track is not possible.	
Cannot make more than 1000 folders.	The maximum number of folders has already been reached, so a new folder cannot be created.	
Cannot RECORD (Internal state error)	Recording cannot be started for some reason.	If this occurs frequently, prepare information about it including the operation steps that cause it, and contact the TASCAM customer support service.
Cannot record. Media full.	The medium does not have enough open space, so recording cannot be started.	
Cannot record. System limit.	The number of files in the folder or total number of files and directories, for example, is too great, so starting to record is not possible.	
Cannot record. Track limit.	The maximum number of tracks have already been recorded, so recording cannot be started. Delete unnecessary files or use a different medium.	
Cannot RECORD Entry 100 is already assigned. Please create new Playlist or clear Entry 100.	The number of playlist entries would exceed 100. Create a new playlist or clear the 100th entry in the playlist.	
Cannot set Mark point limit reached.	Only 99 marks can be added.	
Cannot set Mark point in read-only file.	The file is read only, so marks cannot be added.	
Cannot set Mark point while current track is AAC.	Marks cannot be added when the current track is AAC format.	
COPY FAILED	The file or folder could not be copied.	
Delete failed	The file or folder could not be deleted.	
DEVICE ERROR	Mounting the medium failed.	
DIN ERROR Digital input is illegal.	An error occurred with the digital input selected for the digital signal.	
(error) INFO WRITING	An error occurred while writing data.	
File Copy Failed.	Copying a file failed.	
Folder Copy Failed.	Copying a folder failed.	
Format failed.	The media formatting failed.	
Formatting not optimal.	The format of the medium is not supported, so recording cannot be started.	Use this unit's format function to format the media. (See "Preparing SD cards and USB flash drives for use" on page 30.)
Import Key Failed. ffffffff	Importing the SSH key failed.	ffffffff = file name
Make Playlist failed	Creating a playlist failed.	
No Call Point	The call point has not been set.	
No Mark Point	No mark points have been added.	
Not recommended type for Recording.	The medium is not suitable for recording, so recording cannot be started.	

Message	Meaning	Note
Operation failed. folder limit	The maximum number of folders has already been reached, so the operation cannot be executed.	
Operation failed. long name	The path name exceeds the character number limit, so the operation cannot be executed.	This occurs if the full path name is 255 characters or longer.
Operation failed. playlist limit	The maximum number of playlists has already been reached, so the operation cannot be executed.	
Operation failed. XXXXXXXXX	The operation could not be executed for some reason.	If this occurs frequently, prepare information about it including the operation steps that cause it, and contact the TASCAM customer support service.
PLAY ERROR Buffer underrun	Data reading processes could not keep up during playback.	
PLAY ERROR	A playback error occurred.	
RECORD Error	An error occurred during recording.	
RECORD Error Buffer overflow.	The recording buffer became full during recording. Writing to the medium could not keep up.	Since the writing performance of the medium has declined, use the ERASE FORMAT function or use a different medium. (See "Preparing SD cards and USB flash drives for use" on page 30.)
RECORD stopped. Media Full.	The medium did not have enough capacity, so recording stopped.	
RECORD stopped. System limit.	Recording stopped because the total number of files, folders and other items inside the folder would have exceeded 999.	
RECORD stopped. SUB media is not available.	Recording to the relay recording medium (SUB MEDIA) could not be started.	
Save Failed.	Saving the file failed.	
SD Card Locked	The SD card is locked.	
SD Card Locked Cannot Record/Edit	Since the SD card is locked, recording and editing are not possible.	
This name already exists.	A folder or file with the same name already exists.	
There is no entry.	Playback is not possible because the playlist has no entries. Select a playlist that has entries or assign entries to this one.	
There is no track.	Playback is not possible because there are no files.	
Timer Event nn (Download) Failed	The download timer event numbered "nn" failed.	nn = timer event number
Unsupported File too many tracks	You tried to play a file with more tracks than are supported. Or, you tried to add too many to a playlist.	
Unsupported Fs.	You tried to play a file with a sampling frequency that is not supported. Or, you tried to add one to a playlist.	
unsupported type	The media is not a supported type (not DMA compatible), so it cannot be used.	

17 - Troubleshooting

If you are having trouble with the operation of this unit, please try the following before seeking repair.
If these measures do not solve the problem, please contact the store where you purchased this unit or TASCAM customer support service.

The unit will not turn on

- Confirm that the power plug and other connectors are inserted completely.
- Confirm that the power supply source is turned on.

The medium is not recognized

- Confirm that the SD card or USB flash drive is loaded completely.
- Stop playback or recording once.
- Was the medium being used formatted by this unit?
- Is the capacity within the specified range (512 GB)?

The unit does not function

- Confirm that the lock function is not on.

Playback is not possible

- If you are trying to play a WAV file, confirm that it uses a sampling frequency (44.1/48/96kHz) and a bit depth (16/24-bit) that are supported by this unit.
  If the file is MP3 or AAC, confirm that its bit rate is supported by this unit.

No sound is output

- Connect headphones and check if sound is output from them?
  If sound is being output from them, recheck the output jacks of this unit, connections, cables and connected devices.
- Check connections with the monitoring system again. Check the volume of the amplifier as well.

Recording is not possible

- Is the correct medium selected?
- Is the media capacity 512 GB or less?
- Was the medium formatted by this unit?
- If you are using an external device, check the connection again.
- Adjust the recording levels.
- If there is not enough room on the medium, delete unnecessary data to increase the amount of open space or change the medium.
- If the total number of files, folders and other items inside the recording folder is great, change the recording folder.

Changed settings are forgotten

- This unit backs up the settings every time they are changed. Backup can fail depending on when the power is turned off. Do not turn the power off immediately after changing a setting.

There is noise

- Confirm that the connection cables do not have contact issues.

“Rename failed” appears when editing a name

- Due to system limitations, 255 is the maximum number of characters (half-width) that can be used in file and folder names as well as in other text fields. Moreover, the full path on the BROWSE screen is limited to 255 characters. This limit includes all the folder, subfolders and file names along with the symbols that divide them.

The RC-10 remote control does not function

- Confirm that a battery is installed and has not died.
- Is the battery oriented correctly?

Enabling “ICMP Echo Request” using firewall settings

1. Press the Windows Start button at the bottom left of the screen.
2. Select the Settings gear icon from the Start menu.
3. Select “Privacy & security” (or “Updates & Security”).
4. Select “Windows Security” and then “Firewall & network protection”.
   “Firewall & network protection” Will open in a separate window (Fig.1).

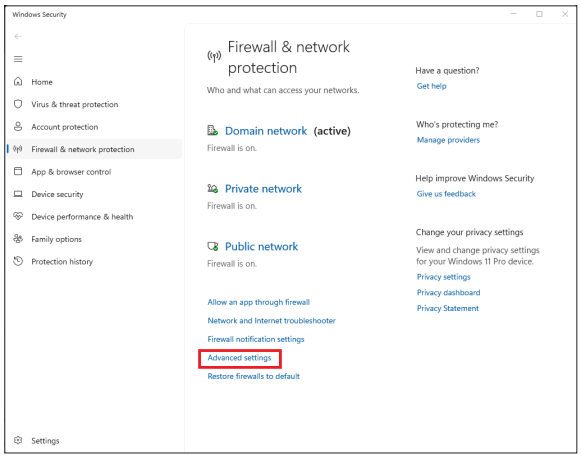


Fig.1. “Firewall & network protection” screen

5. Select “Advanced settings”.
6. On the left side of the screen, select “Inbound Rules”.

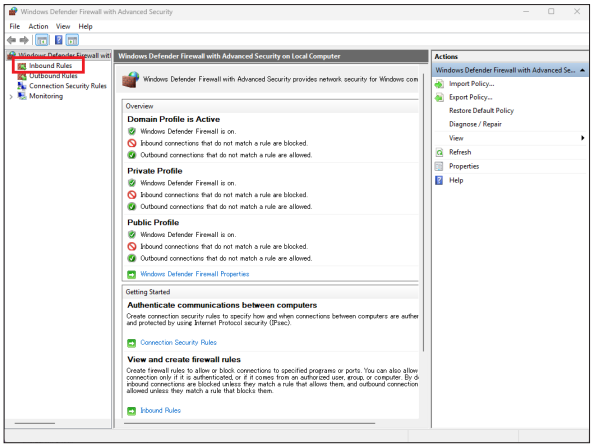


Fig. 2. “Advanced settings” screen

7. Search for “File and Printer Sharing (Echo Request - ICMPv4-In)” in the list.

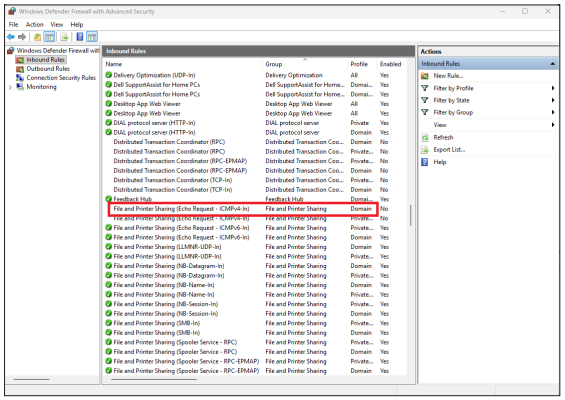


Fig. 3. “Inbound Rules” screen

8. Confirm the type of network (e.g., Domain) that is currently active on the “Firewall & network protection” screen (Fig. 4). Next, from the “Inbound Rules” list (Fig. 3) select the “File and Printer Sharing (Echo Request - ICMPv4-In)” that applies to the same network profile. Then, Right click and select “Enable Rule”.

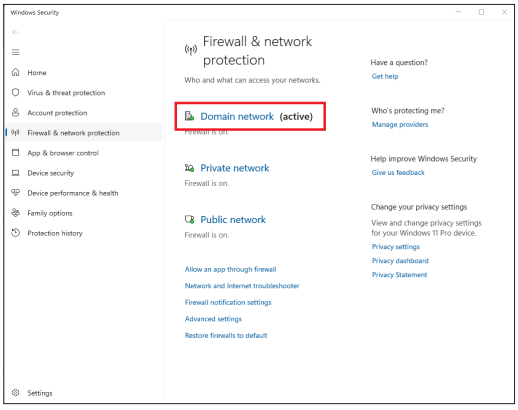


Fig. 4. “Firewall & network protection” screen

18 - Specifications and ratings

General

Recording media

2 SD card slots, 1 USB port
- SD cards (512 MB–2 GB)
- SDHC cards (4 GB–32 GB)
- SDXC cards (64 GB–512 GB)
- USB flash drives (512 MB–512 GB)

NOTE

Media must be formatted as FAT16, FAT32 or exFAT.

Recording file formats

MP3: 44.1/48 kHz, 64/128/192/256/320kbps
WAV: 44.1/48/96 kHz, 16/24-bit

Playback file formats

CD-DA: 44.1 kHz, 16bit
AAC: 44.1/48kHz, 32–320kbps, VBR (MPEG Extended HE-AAC (Audio stream), DRM not supported)
MP3: 44.1/48 kHz, 64/128/192/256/320 kbps
WAV: 44.1/48/96 kHz, 16/24-bit

Number of channels

2 channels (stereo)
1 channel (mono)

Input and output

Analog audio input and output ratings

Analog input (unbalanced) jacks

Connectors: RCA pin jacks
Rated input level: –10 dBV (0.316 Vrms)
Maximum input level: +6 dBV (2.0 Vrms)
Input impedance: 10 kΩ or higher

Analog input (balanced) jacks

Connectors: XLR-3-31 (1: GND, 2: HOT, 3: COLD)

For line

Nominal input level
- +4 dBu (1.23 Vrms, when Ref.Level set to other than –9 dBFS)
- +6 dBu (1.55 Vrms, when Ref. Level set to –9 dBFS)

Maximum input level (switchable):
- +15 dBu (4.36 Vrms, Ref. Level: –9 dBFS)
- +18 dBu (6.16 Vrms, Ref. Level: –14 dBFS)
- +20 dBu (7.75 Vrms, Ref. Level: –16 dBFS)
- +22 dBu (9.76 Vrms, Ref. Level: –18 dBFS)
- +24 dBu (12.28 Vrms, Ref. Level: –20 dBFS)

Input impedance: 10 kΩ or higher

Analog output (unbalanced) jacks

Connectors: RCA pin jacks
Rated output level: –10 dBV (0.316 Vrms)
Maximum output level: +6 dBV (2.0 Vrms)
Output impedance: 200 Ω

Analog output (balanced) jacks

Connectors: XLR-3-32 (1: GND, 2: HOT, 3: COLD)
Nominal output level: +4 dBu (1.23 Vrms, when Ref.Level set to other than –9 dBFS)
+6 dBu (1.55 Vrms, when Ref.Level set to –9 dBFS)
Maximum output level (switchable):
- +15 dBu (4.36 Vrms, Ref.Level: –9 dBFS)
- +18 dBu (6.16 Vrms, Ref.Level: –14 dBFS)
- +20 dBu (7.75 Vrms, Ref.Level: –16 dBFS)
- +22 dBu (9.76 Vrms, Ref.Level: –18 dBFS)
- +24 dBu (12.28 Vrms, Ref.Level: –20 dBFS)

Output impedance: 200 Ω

Phones jack

Connector: 6.3mm (1/4") standard stereo jack
Maximum output level: 45 mW + 45 mW or higher (THD+N 0.1% or less, into 32 Ω load)

Digital audio input/output ratings

Digital input (AES/EBU) jack

Connector: XLR-3-31
Input signal voltage amplitude: 0.2–7.0 Vp-p
Input impedance: 110 Ω
Format: AES3-2003/IEC60958-4 (AES/EBU)
Supported sampling frequencies: 44.1, 48, 96 kHz
When SRC ON, 32 kHz–192 kHz can be received

Digital input (S/PDIF) jack

Connector: RCA pin jack
Input signal voltage amplitude: 0.2–0.6 Vp-p
Input impedance: 75 Ω
Format: IEC60958-3
Supported sampling frequencies: 44.1, 48, 96 kHz
When SRC ON, 32 kHz–192 kHz can be received

Digital output (AES/EBU) jack

Connector: XLR-3-32
Output voltage: 2.0–7.0 Vp-p
Output impedance: 110 Ω
Format: AES3-2003/IEC60958-4 (AES/EBU)
Supported sampling frequencies: 44.1, 48, 96 kHz

Digital output (S/PDIF) jack

Connector: RCA pin jack
Output voltage: 0.5 +/–0.1 Vp-p
Output impedance: 75 Ω
Format: IEC60958-3

Control input/output

Remote jack

Connector: 2.5mm (3/32") TRS jack (for TASCAM RC-3F or RC-20 (sold separately))

USB port

Connector: 4-pin USB A-type
Protocol: USB 2.0 High-Speed (480 Mbps)
Operation mode: dedicated host
Power supply capacity: DC 5V max. 0.5A

CD DRIVE port

Connector: USB Type-C (screw lock supported)
Protocol: USB 2.0 High-Speed (480 Mbps)
Operation mode: dedicated host
Power supply capacity: DC 5V max. 1.5A (USB Type-C 1.5A current conforming)

RS-232C connector

D-sub 9-pin (female, inch-standard)

Parallel connector

D-sub 25-pin (female, inch-standard)
Maximum input voltage: +5.5 V
High level minimum input voltage: +2.31 V
Low level maximum input voltage: +0.99 V
Output format: Open collector (10Ω output impedance, 20V withstand voltage, 35mA maximum)
Low level maximum output voltage: 0.5 V
+5V power supply maximum supplied current: 100mA

Ethernet connector

Connector: RJ45
Compatible standard: 100BASE-TX
Supported application protocols

- Telnet
- OSC (Open Sound Control)
- SNTP client
- FTP server
- FTP client
- SFTP (SSH FTP) server
- SFTP (SSH FTP) client
  - SSH version 2 supported
  - SSH file transfer protocol (version 3) supported
  - Supported keys: ECDSA 256/384/521-bit, RSA 2048/3072-bit
  - Supported key file formats:
    - SFTP server (SFTPd) functions
      - SFTPd host ECDSA private key: PEM format / SEC1
      - SFTPd host RSA private key: PEM format / PKCS#1
      - SFTPd client public key: RFC4716
    - SFTP client (SFTPc) function
      - SFTPc client ECDSA private key: PEM format / SEC1
      - SFTPc client RSA private key: PEM format / PKCS#1
      - SFTPc client public key: RFC4716
- FTPS (FTP over SSL/TLS) client
  - Explicit mode supported
  - Encryption protocol standards
    - TLS 1.2 and 1.3 supported
    - TLS 1.2 supported encryption suite:
      TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384
      TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
      TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
      TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
      TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256
      TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256
      TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA
      TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA
      TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA
      TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA
      TLS_RSA_WITH_AES_256_CBC_SHA
      TLS_RSA_WITH_AES_128_CBC_SHA
      TLS_RSA_WITH_3DES_EDE_CBC_SHA
    - TLS 1.3 supported encryption suite:
      TLS_AES_128_GCM_SHA256
      TLS_AES_256_GCM_SHA384
      TLS_CHACHA20_POLY1305_SHA256

Infrared receiver

RC-10 (wireless remote control)

Audio performance

Frequency response

20 Hz - 20 kHz: +/–0.5 dB (LINE IN to LINE OUT, Fs 44.1/48 kHz, JEITA)
20 Hz - 40 kHz: +0.5/–3 dB (LINE IN to LINE OUT, Fs 96 kHz, JEITA)

Distortion

0.002% or less: (LINE IN to LINE OUT, Ref. Level: –16 dBFS, Fs = 44.1/48/96 kHz, JEITA)

S/N ratio

106 dB or more (LINE IN to LINE OUT, Fs = 44.1/48/96 kHz, JEITA)

Dynamic range

106 dB or more (LINE IN to LINE OUT, Fs = 44.1/48/96 kHz, JEITA)

Crosstalk between channels

100 dB or more (LINE IN to LINE OUT, Fs = 44.1/48/96 kHz, JEITA)

Note: JEITA indicates compliance with JEITA CP-2150

Other

Power

AC 100-240V, 50/60 Hz

Power consumption

When using RC-SS150, IF-DA2

29W

When power is off (when in standby mode)

0.4 W

Time until switching to standby mode

20 min (Europe only)

NOTE

The power of this unit cannot be completely turned off. To completely stop power, disconnect the power plug.

Dimensions

482.6 × 45 × 300.5 mm (W x H x D)

Weight

3.1 kg

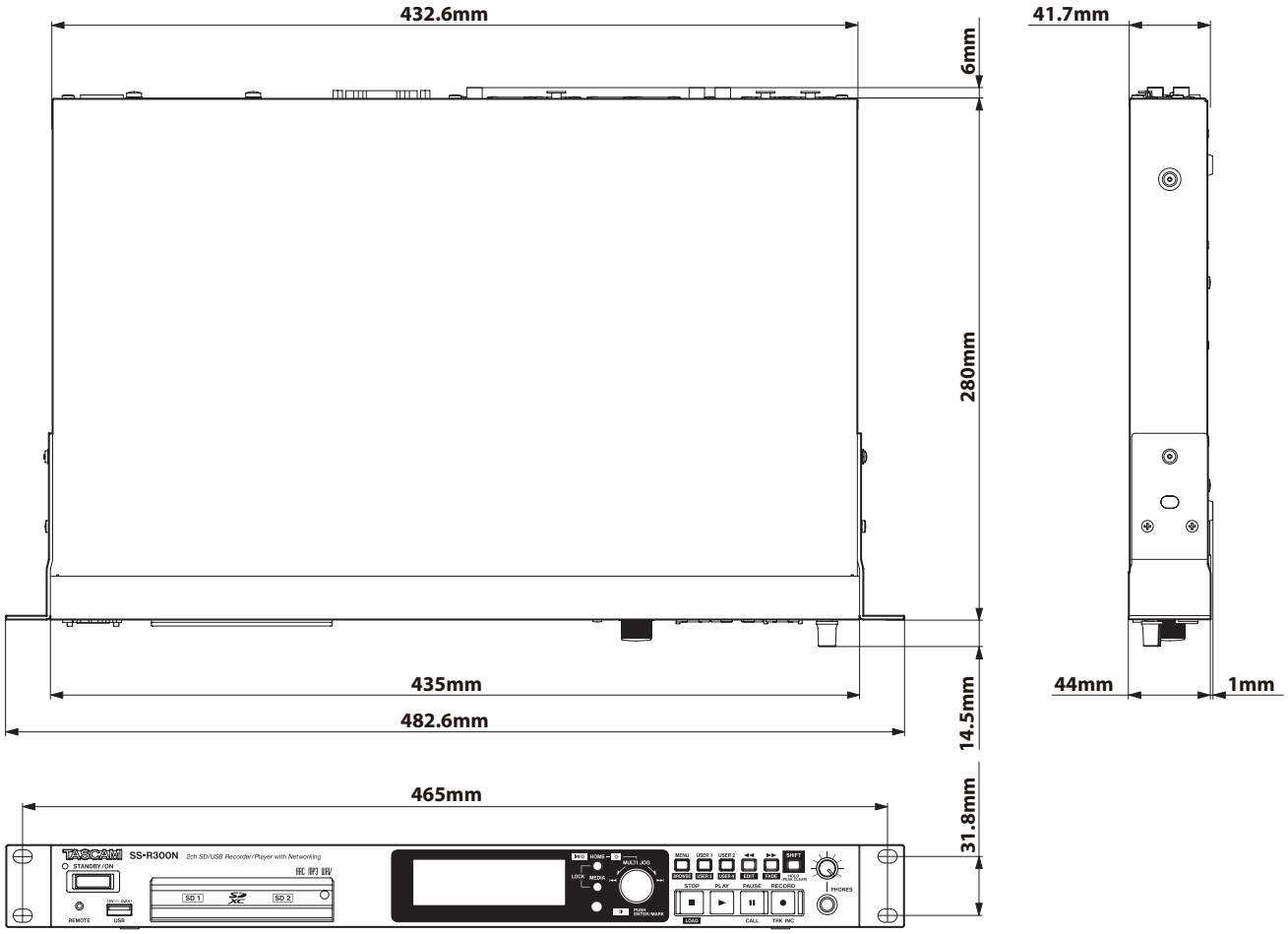
Operating temperature range

5 – 35°C (41 - 95°F)

Operating humidity range

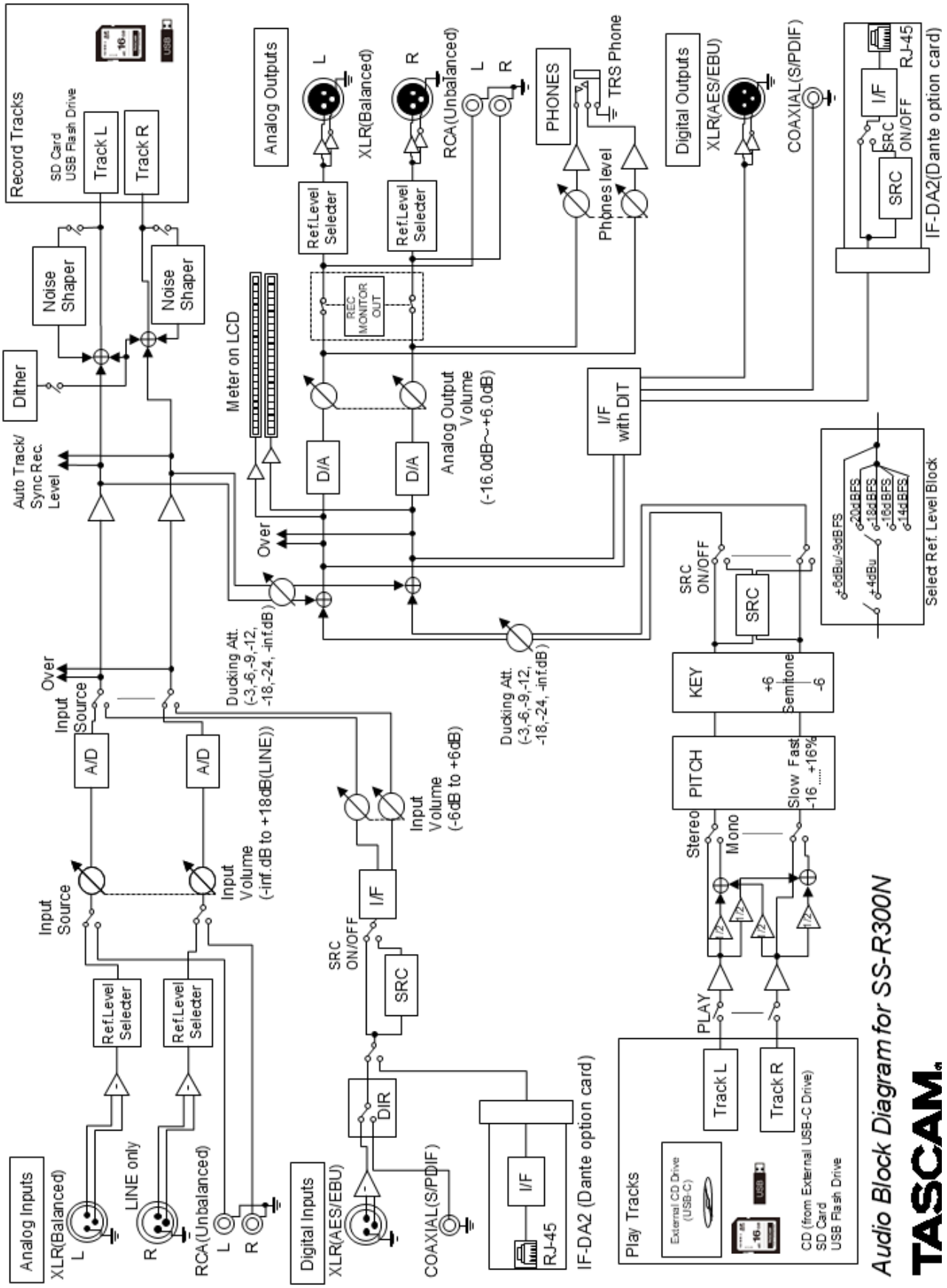
25 – 85%RH (at 32°C, without condensation)

Dimensional drawings



- Illustrations in this manual might differ in part from the actual product.
- Specifications and external appearance might be changed without notification to improve the product.

Block diagrams



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