

AURA

Armageddon 648 RGB LED LED Strobe / Wash Effect



User Manual

The information in this user manual is subject to change at any time without notice.

Version: 1.0 Date of creation and author's initials: 07-10-2019 RV Revision date and author's initials: -

Introduction

Thank you for purchasing the Ayra Armageddon 648 RGB LED. This versatile spot-fixture is fitted with a powerful SMD LED light sources that provide an extensive colour palette with high output. This manual provides all the information you need to know about the product before you start using it.

We advise that you read this user manual in its entirety before unpacking the contents of the box, so that you are familiar with all of the functionality that this product has to offer. Please make sure to check that all of the parts and accessories listed below under 'Box Contents' are included in the package. In the event that the Armageddon 648 RGB LED does not function properly, or if you have any issues while operating it, please remove the plug from the power socket and contact your retailer for assistance.

Box Contents:

- Ayra Armageddon 648 RGB LED Fixture
- Double suspension bracket
- Hardware (2x tightening knobs, 2x rubber rings)
- Connection cable from IEC C13 to Schuko, 1.5 mm²

Please inspect the device and included accessories

Should you discover that either the device or one or more of the included parts have been damaged or rendered defective while in transit, please contact your dealer directly.

Please note that the pictures in this user manual serve illustrative purposes only and may differ from the actual product.

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Safety Instructions



WARNING!



Keep this device away from moisture, water and rain to avoid the chance of electric shocks!



WARNING!



Only connect this device to a suitable power socket. This device functions on a specific power voltage. If it is plugged into a power socket with a different voltage, it could result in permanent damage and even dangerous situations such as fire or electric shocks.



WARNING!



Be careful when operating this device. Touching the wires that are connected to the mains, inside or outside the device, could result in electric shocks!

Everyone involved with the installation, operation and maintenance of this device must:

- Be qualified.
- Be skilled.
- Have read the instructions included in this user manual.
- Be sure that neither the device nor the included accessories are damaged. Should the device or the included accessories be damaged, please contact your retailer for more information.
- Ensure that the device is in good working condition and is safe to operate. Please follow the advice and instructions as they are described in this user manual.

Damage caused by misuse and/or modifications made to the device are not covered by the warranty.

This device does not contain any parts that can be repaired or replaced by the user. Should maintenance or repairs be necessary, they must be handled by a qualified technician.

The light source of this device is not replaceable. If the light source no longer functions, the entire device needs to be replaced.

Important information regarding health and safety:

- Do not remove any labels or stickers from this device.
- Do not leave any cables lying around.
- The device should not be opened up and any hardware or software that may be present should not be modified.
- To achieve optimal performance, any inputs on the device should not be fed with a signal higher than necessary.
- The device should only be used indoors; contact with water, rain and moisture should always be avoided. Do not place any objects containing liquid on top of the device.
- Remove the device from any nearby flames or heat sources; do not place it near flammable fluids, gasses

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or objects.

- Disconnect this device from a power source if it is not being used for a long period of time; if maintenance is necessary, or if it needs to be cleaned.
- Do not pull or tug on the cable to remove a connector as this may cause damage.
- Do not use any cables other than the ones described in this manual. Do not use defective cables. Please contact your retailer if the included or necessary cables do not function properly with this device.
- Only use this device with a stable AC power supply.
- Only use this device with power from a grounded power source.
- In the event that the device is exposed to extreme temperature changes (e.g. transported from a cold outdoor environment into a warm indoor environment), it should not be turned on until it has reached room temperature. This is necessary to prevent moisture (condensation) from forming inside the device, which could lead to electric shocks.

Guidelines and operation of this device:

- This device is intended for use by professionals on stage, in theatres, in clubs and in similar entertainment locations.
- This device is not suitable for use by children and should always be operated by an adult.
- This device is designed to create light effects for entertainment purposes. It is not suitable for household illumination.
- This device may only be used in a suitable environment where no damage to the device can occur. Do not use the device in moist or dusty environments such as:
 - indoor swimming pools where chlorine is used
 - beaches or any location where sand and/or salt is present
 - outdoors
 - indoors in spaces where intense heat sources are present, or where it can reach temperature levels that would be considered uncomfortable for a person
- Avoid impact and collisions during use and transport. Do not move or transport the device while it is in use. Avoid using excessive force when installing and operating the device.
- Any user must become familiar with the functions of this device before using it.
- Should the device not be used in the manner described in this user manual, damages or even injuries could occur. Ayra cannot be held responsible for any injuries or damages that occur as a result of improper use of this product.

Storage and transport:

- This product was designed for mobile use. Please only transport the device in the original packaging, or in a flight case with a suitable foam inlay.
- This device was not designed for permanent (24/7) use. The expected lifespan of the device will not be affected by occasionally turning the device off. Disconnect the device or turn off the power when it is not actively in use.
- If the device is not in use for a long period of time, it should be disconnected and stored in a dust-free environment.
- Do not expose the device to extreme temperature differences.




Housing:

- Inspect the device's housing frequently and always just before use. Avoid operating the device if there are any large dents or cracks, or if screws are missing. Do not use the device if the housing is not in good condition.
Contact your dealer or a qualified technician if you are unsure about the state of the device.
- Check the device and the screws for corrosion. Corrosion must not be present on this device. Contact your dealer or a qualified technician if you find any corrosion on the screws.
Every power and signal connector should be securely attached. Do not use the device if the connectors are not secure.
- Avoid dust and dirt build-up. Clean the device once a month by disconnecting it from the power supply and wiping it down with a dry or slightly moist cloth. If the device is used frequently, the cleaning intervals should increase.

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Symbol Explanation:

	<p>WEEE: Ensure that this device is disposed of properly. This product falls under the WEEE (Waste Electrical and Electronic Equipment) directive. The requirements of this directive apply to all manufacturers and producers of electronic devices in the EU. Do not throw this product away with regular rubbish. Please contact your local authority for more information about how to recycle and dispose of these products in your region. By recycling this product in the proper manner, we can work together to ensure that we can continue to enjoy these kinds of products and still protect the environment as much as possible from pollution.</p>
	<p>CE: The CE logo indicates that this product meets the European norms and requirements to which it must legally conform.</p>
	<p>Suitable for indoor use only: this product was only designed for indoor use. The maximum environmental temperature must not exceed 40 degrees Celsius (104 degrees Fahrenheit).</p>

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Contact:

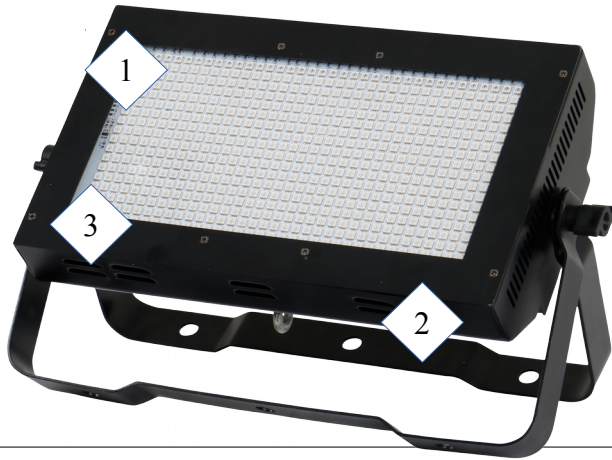
Ayra professional lighting products
Verrijn Stuartweg 18
4462 GE Goes
The Netherlands

*Please do not send any products to this correspondence address.
Should you wish to send in a product for repairs or for a refund, please contact your dealer for an RMA request (Return Merchandise Authorisation).*

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Operation Guidelines for this Device



1. Light Output
2. Double suspension bracket / floor stand
3. Safety-eyelet for safety cable
4. Microphone
5. LED Display with Menu buttons
6. DMX input via 3-pin XLR
7. DMX output via 3-pin XLR
8. IEC C14 power input with fuse compartment

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Operation and Mounting

To activate the device, plug it into a mains socket. Once it's connected to an active power source, it will turn on automatically.

The device cannot be operated while it is still starting up and displays the 'AYRA' logo. Once the device has fully started up, it will automatically jump to the last mode and setting. Operation modes and other settings shown on the display can now be adjusted or changed via the menu buttons.

If a DMX signal is detected, the device shall automatically switch to DMX mode and the DMX address that was last used. For a new device, this is usually DMX address 001. The DMX address can of course be changed via the display and menu buttons.

The functions, modes and settings can be changed by using the display and menu buttons. Push 'Enter' to select a function or to confirm a change. Push 'Up' and 'Down' to change any values and push the 'Menu' button to return to the main menu. A few seconds after confirming a setting by pressing 'Enter', the device shall automatically return to the main menu and perform the set actions. This can be sped up by holding the 'Menu' button down for 2 seconds after confirming a setting by pressing 'Enter'. This is usually done after adjusting the working mode or DMX address.

The Menu includes the following options and functions:

Display	Mode	Function
ADDR / A001	DMX Address Configuration	Address A001 ... A512
CHAN	Channel Mode Selection	3CH / 5CH / 7CH
NASL	Slave Mode	Master Slave
COLO	Colour Presets	CO 1 – 15 (Colour Presets) Stro 0-100 (Stroboscope Off up to 100%)
JUMP	Colour Jump Programme	JU 1-100 Jump Speed, slow to fast Stro 0-100 (Stroboscope Off up to 100%)
FADE	Colour Fade Programme	FA 1-100 Fade Speed, slow to fast Stro 0-100 (Stroboscope Off up to 100%)
MANU	Manual Mode	Stro 0-100 (Stroboscope Off up to 100%) Dim 0-100 (Dimmer Level 0 to 100%) Red 0-100 (Intensity Red 0 to 100%) Gree 0-100 (Intensity Green 0 to 100%) Blue 0-100 (Intensity Blue 0 to 100%)
SOUND	Sound-Controlled Mode	Modus: ON / OFF
SENS	Sound Sensitivity	0 - 100: Sensitivity in %
BLND	DMX Signal Loss Mode Selection	No: Normal mode, switch to automatic programme Yes: Blackout during DMX signal loss
LED	LED Display Off / On when not in use	ON/OFF
DISP	Display Inversion	Display invert, disp - dslp
TEST	Test Mode	Test programme to check the operation of each LED by illuminating each LED one by one
TEMP	Temperature Display	Displayed in Degrees Celsius
FHRS	Duration of use	0000 – 9999 Hours of use
VER	Firmware Version	Displays current version of firmware installed. This cannot be adjusted or changed

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An explanation of all available functions can be found below:

ADDR: With this function, you can determine the DMX start address of the device. Set it channel 001, and the device will respond to DMX channel 1. Set it to channel 003, then the device will respond to DMX channel 3 and so on.

CHND: This device can operate with various DMX channel modes. If your DMX circuit is reasonably full with devices and you do not need extensive control over the functions, a concise channel mode can be selected. It is also possible to select a more extensive channel mode, making more channels available for the control of several separate functions.

NASL: Using the Master / Slave Mode, it's possible to connect several devices of the same type with one another, via DMX 3-pin XLR cables so that they perform exactly the same movements and functions at the same time. Therefore, single devices do not respond individually (or chaotically) and this results in a completely coordinated show. In the Master / Slave function, the first device in the circuit is set as the Master and does not receive DMX signal.

PLEASE NOTE: When Slave mode is activated, the device shall wait for a signal from the designated Master device. Selecting an automatic or sound-controlled mode is then not possible! To cancel the Slave mode, enter the 'SLND' menu and select 'NAST'. This then sets the device to Master mode and the stand-alone functions can then be activated once more.

COLO: Select one of the built-in static colour presets. Then add an optional stroboscope effect.

JUMP: Alternate between diverse colours. One colour preset jumps to the next colour preset in one go. Then add an optional stroboscope effect.

FADE: Slow colour fade with adjustable speed. One colour blends smoothly into the other. Then add an optional stroboscope effect.

SOUN: Here, the in-built microphone can be set to On or Off. If the microphone is switched on, the JUMP and FADE functions will react to the beat of any music.

SENS: This mode allows you to set the sensitivity of the in-built microphone. The further the device is installed from the sound-source, the higher the sensitivity of the microphone needs to be so that the sound is registered and the device responds accordingly and in time to the music. The microphone is able to withstand high sound pressure. However, if the sound is loud and the sensitivity is high, the microphone will find it more difficult to register the beat. Experiment with the sensitivity and distance from the positioning of the device to make sure you're getting the best possible signal and optimum performance.

BLND: Use this function to set what the device will do in the event of DMX signal drop-out or loss. When set to Master mode, the device shall start an in-built programme. In the LAST mode, the device remains in the last active DMX command received. In the Blackout mode, all settings return to zero and that device no longer moves or gives light.

LED: When the LED display is not in use, it can be switched off. By setting 'LED' to 'Off', this will prevent red symbols from illuminating when the device is being used in dark spaces. If you press of the menu buttons, the display shall immediately light up and show all necessary information. If the display is not used, it shall automatically switch off again within 30 seconds.

DISP: This function is useful when the device is suspended and the display screen is upside down. Use this function to flip the screen so that it can be easily read when the device is suspended.

TEST: When the device needs to be checked, use the 'TEST' function to test one or more devices at the same time. The device(s) shall continuously runs through a programme within which the LEDs are tested so that any deviations or defects can be easily detected. The device shall continue to repeat the programme until it is manually interrupted (when you switch the device to sound control, for example).

HOUR: If this device is used professionally or rented, it should be regularly maintained and inspected in

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between use. The HOUR function shows exactly how long the device has been in use. This amount accumulates over time as long as the device is being used and cannot be manipulated by the user.

VER: Here, the current firmware version is displayed. This cannot be changed or adjusted.

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Operation Modes

Please find a clear explanation of the differences between all available Operation Modes below and how they are affected by the menu functions listed above.

Auto:

In Auto Mode, you can select one of the Operation Modes in which the device is not dependent on external factors such as DMX signals, master signals or sound. Here, one of the basic programmes can be selected such as setting the alternating speed or correcting the intensity.

Sound:

The sound-controlled mode or 'sound mode' uses an in-built microphone that registers the beat of music and runs a program based on this. For example, the device can move in virtual synchronisation with any music, providing an automatic light-show.

When no music is detected or only highs are present in the music due to a break, the device will continue its program at a slower pace. As such, the light show does not appear to come to a stand still. As soon as sound is registered by the microphone once more, the device shall continue its program in synchronisation with the beat.

Slave

In Slave Mode, it is possible to connect several devices of the same type with one another so that they perform exactly the same movements and functions at the same time. Therefore, single devices do not respond individually (or chaotically) and this results in a completely coordinated show. In theory, by adding a DMX booster, an unlimited number of Slave devices can be linked to one Master device. Initially, no problem would occur if 4 devices were linked and no DMX booster were added.

Please note: If you link devices of a different type or brand (even if they appear to have the same function), chaotic or strange behaviour can occur. This is often because certain functions are linked to the incorrect channels. This applies to DMX lighting of all types and brands.

DMX

The DMX Mode is the most comprehensive mode for optimum control over all functions of this device. Via DMX, it is possible to control either a limited or large amount of functions via a DMX controller or DMX software.

The device can be set to different channel modes so the channel layout (included below) is in alignment with the layout of your DMX circuit and with the functions you want to use.

3CH1 mode:

CH	Function	Value
1	Red 0-100%	000-255
2	Green 0-100%	000-255
3	Blue 0-100%	000-255

5CH mode:

CH	Function	Value
1	Master Dimmer 0-100%	000-255
2	Strobe Slow to Fast	000-005 LED ON 006-015 LED OFF 016-131 LED Strobe, slow to fast

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		132-139 LED ON 140-181 Fast on, slow off, slow to fast 182-189 LED ON 190-231 Slow on, fast off, slow to fast 232-239 LED ON 240-247 Random Strobe 248-255 LED ON 000-255
3	Red 0-100%	
4	Green 0-100%	000-255
5	Blue 0-100%	000-255

7CH mode:

CH	Function	Value
1	Master Dimmer 0-100%	000-255
2	Strobe Slow to Fast	000-005 LED ON 006-015 LED OFF 016-131 LED Strobe, slow to fast 132-139 LED ON 140-181 Fast on, slow off, slow to fast 182-189 LED ON 190-231 Slow on, fast off, slow to fast 232-239 LED ON 240-247 Random Strobe 248-255 LED ON
3	Red 0-100%	000-255
4	Green 0-100%	000-255
5	Blue 0-100%	000-255
6	Macro Channel	006-013 Colour 1 014-021 Colour 2 022-029 Colour 3 030-037 Colour 4 038-045 Colour 5 046-053 Colour 6 054-061 Colour 7 062-069 Colour 8 070-077 Colour 9 078-085 Colour 10 086-093 Colour 11 094-101 Colour 12 102-109 Colour 13 110-117 Colour 14 118-125 Colour 15 126-192 Colour Jump programme, Stop, slow to fast 193-255 Colour Fade programme, slow to fast
7	Sound-Controlled Mode	000-005 Function Off 006-255 Sound-controlled mode, sensitivity low to high

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Installation and Connection Instructions

Now you know how the Armageddon 648 RGB LED works. So that the device is used in the correct and safest way, please make sure to follow the installation and connection instructions.

Make sure that children do not have access to the device or any connecting cables. If there are children present, make sure that they are supervised. Since the device can be placed upright or be suspended, it is possible for children to pull on any connecting cables and cause the device to fall. To prevent any accidents or injury, this must be taken into account whenever the device is being positioned and/or installed.

Upright use

When you want to place the Armageddon 648 RGB LED in an upright position, make sure that the device is placed on a stable surface such as a table, DJ booth or bar. The Armageddon 648 RGB LED is not fitted with rubber feet to grip the ground and stabilise the device. As such, always make sure that the light is positioned on a stable surface and that any cabling is secured so that no one can trip and knock or pull the device over.

Suspended use (brackets)

Should you want to suspend the Armageddon 648 RGB LED, use the suspension brackets, tightening knobs and rubber rings included.

Place the rubber rings between the bracket and the fixture. Then tighten the knobs on both sides to make sure that the bracket is secure.

If you want to suspend the device with a half-coupler or G-hook, this can be done by using the pre-drilled holes in the bracket. Standard hooks and/or brackets for 35 or 50 mm tubes (trusses or light stands) are available from your local retailer.

Hardware for mounting the Armageddon 648 RGB LED to the wall, ceiling, or beam is not included. Contact a specialist if you're not sure what hardware is required for your situation. A wooden beam and stone wall require different mounting methods.

When the Armageddon 648 RGB LED is suspended, you will need to attach a safety cable to the fixture. This is not included but is available at your local retailer. The device is fitted with an attachment point for hooking a safety cable. Once hooked on, the cable can be wrapped around the truss or light stand and attached once more to the same hook. This ensures the device is secure and prevents it from falling, even if one or both of the brackets should come loose and fail.

Ensure that the safety cable has a load capacity of 10x the weight of the armature and that the device can not fall farther than 30cm. You can wrap the safety cable around the truss or light stand several times to ensure the fall is as short as possible. The shorter the fall, the less chance of damage or injury.

Light source

The Armageddon 648 RGB LED uses powerful LED modules that are made even more powerful by a special lens that combines and focuses these beams, much like a magnifying glass. Since the human eye cannot adjust quickly enough to sudden and intense exposure to the level of brightness this device produces, never look directly into the lens at close range. While it won't result in permanent damage, it can cause temporary blind spots which may cause disorientation and discomfort.

Cooling

The Armageddon 648 RGB LED is cooled by a ventilation fan fitted in the housing. This fan activates when the device reaches a certain temperature. Make sure the fans and vents are not blocked and regularly check that they are functioning normally. Be aware that should the fans become clogged with substances like dust, smoke and moisture, this may impair operation and shorten the life-span of the device.

Parts and repairs

This product does not include spare parts and can not be repaired by the user. Any inspections and overall maintenance should be carried out by a specialist only.

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Cleaning and maintenance

Clean the exterior of this device on a monthly basis with a dry, or slightly damp microfibre cloth. Ensure that the device is unplugged before cleaning it.

Check that all screws are intact and secured and tighten or replace them where needed. Check all metal parts of the device for any signs of corrosion. If corrosion is found, the device needs to be checked thoroughly.

DMX terminator

When using the device in DMX mode, it is common for a 'terminator' to be used at the end of the DMX circuit. A DMX terminator is a terminal resistor, consisting of a 120 Ohm resistor placed between the second and third pins to eliminate any data reflections. Data reflections can cause strange behaviour in DMX controlled devices.

DMX-terminators are sold read-made but it is possible to solder a 120 Ohm resistor between the second and third pins of a standard, male XLR connector.

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DMX Lighting Troubleshooting

If you have a problem with your DMX light effect, please consult the troubleshooting section for possible solutions. If, after consulting this section, the problem remains unresolved, please contact your retailer for more information and/or help.

This troubleshooting section contains information on how to solve the most common DMX light effect problems, but it does not and cannot cover every eventuality.

Problem	Possible Cause	Solution
The device can not be turned on	The fuse is blown	Check the fuse to rule out if it is blown or not. If it is blown, replace it with a new fuse of the same type and class.
	Power cable not plugged in	Check if the power cable is properly connected to the device and plugged into an active power socket.
The device is not reacting to DMX signals	Incorrect DMX start address	Check if the device has been set to the correct DMX start address
	DMX controller is set to 'Blackout'	Make sure the 'Blackout' function on the DMX controller is not activated
	Make sure the polarity switch on the DMX controller is set correctly	Try to reverse the DMX polarity switch on the DMX controller.
	The device is not reacting, there is no DMX signal indication	Make sure the XLR cables are connected properly and are not defective. Replace if necessary.
The device does not react to sound/music	Incorrect operation mode	Make sure the sound-activated mode has been selected.
	The internal microphone sensitivity is too low	Check the microphone sensitivity level and increase it if necessary.
	The speaker is too far away, or is not producing enough low tones	Place the light effect closer to a speaker (or vice versa) and/or increase the low-frequency level. The built-in microphone is not triggered by high tones.
The amount of projected light is minimal	Dirty or dusty optics	Clean the lens and/or other optics.
	Dimmer is not completely open	Check if the dimmers on the spotlights themselves and/or if the master dimmer is completely open. Also, check the colour balance settings.
The DMX signal appears to be interrupted and some devices are flashing or behaving strangely	Damaged/defective cables	Check and replace the DMX cables if necessary.
	Power interference on the DMX signal	Avoid connecting signal cables parallel to power cables.
	DMX terminator missing	Close the DMX circuit with a DMX terminator

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<p>The device is not reacting properly to DMX commands</p> <p>The operation mode can not be changed</p>	<p>Signal loss or interference in the DMX circuit</p> <p>Incorrect DMX channel mode</p> <p>The device is in Slave mode</p>	<p>Close the DMX circuit with a terminator or connect a booster after maximum 32 fixtures.</p> <p>Check that the correct DMX channel mode is set</p> <p>If the device is in Slave mode, it will wait for a master signal unless there is a DMX signal present. Set the device to Master to activate the sound-controlled or automated operation modes.</p>
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Technical Specifications

- Powerful LED flood projector with RGB LEDs
- 648x 5050 SMD RGB LEDs
- For use as a floodlight, blinder, uplighter and more!
- Fully metal housing
- Temperature controlled ventilation
- Slim-line, compact design
- Diverse operation modes
- Auto Fade / Auto Jump with adjustable speed and optional strobe effect
- Colour Macros with optional Strobe effect
- Music / Sound-controlled mode with adjustable sensitivity
- Master / Slave function
- DMX controlled via 3, 5 or 7 DMX channels
- Fitted Safety-Eye bolt
- Power input: by IEC C14 power input with fuse compartment
- Fuse: F3AL 250V
- Power supply: 100-240 V AC, 50/60 Hz
- Nominal power consumption: 110 W
- Power factor: 0.675 at 110V, 0.608 at 220V
- Maximum temperature of housing when in normal use: 46 °C
- Optimum ambient temperature: 0°C to 40°C
- Dimensions: 405 x 250 x 88 mm
- Weight: 4.25 kg

Menu Functions:

- Display blackout function when not in use
- Display inverse option
- Temperature gauge displayed
- Test Function (check the function of all LEDs)
- Duration of use displayed in hours

Performance:

- Output Red: 270 Lux at 1m
- Output Green: 750 Lux at 1m
- Output Blue: 704 Lux at 1m
- Output full on: 1674 Lux at 1m
- Beam angle: 130 Degrees

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