



**FLORENCE 1176**

# INFORMATIONS

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**FLORENCE 1176** is an optical compressor that is inspired and evolves the “signal way” of the historic compressor 1176. Unlike its predecessor, **FLORENCE 1176** uses a latest generation of optocoupler that allows us to offer three different modes of use: compressor, limiter, sustainer.

**FLORENCE 1176** is a compressor that does its job without altering the tone of the sound. To do this we used the highest quality Jfet IC components combined with a sophisticated design. The new generations of opto couplers are more faster and for this reason the signal enjoys excellent benefits.

This compressor can be used at the beginning or end of the effects chain with input signal levels up to a maximum of 1.5Vpp. Great together with tools (Guitar, Bass, Vocal, Drums) great with recording devices.

# DETAILS

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Simple and intuitive to use **FLORENCE 1176** offers great performance and three modality of use:

**COMPRESSOR:** The use of compressor is often necessary to guarantee a great sounds; a better length of the note played; to attenuate excess signal peaks thus ensuring a unique sound stroke.

**LIMITER:** The use of limiter it's right when we want to get up to a certain output level threshold. In this mode the input level control will mark the exact point from where to start cutting.

**SUSTAINER:** the optical compressor sustainer is the mode of use with long release times combined with mid/hi ratio and hi sensivity input level.

It's ready to say that: **INPUT CONTROL** establishes the "level" of intervention; **RATIO** "how much"; **ATTACK** "in what time"; **RELEASE** "full signal return time"; **TONE** "bright or dark compression".

Working temperatures are maximum 60 ° Celsius

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# COMPRESSOR/LIMITER/SUSTAINER

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The function of compressor is to automatically reduce the level of peaks signal so that the overall dynamic range turn out better.

Compression or limiting enables even the quietest sections to be made significantly louder while the overall peak level of the material is increases only minimally.

In the digital age, the compressor offers great benefits and is especially important in recordings. It's helps ensure that the signal is encoded at the highest possible level and offers a better signal definition.

Other question, it helps to prevent a particularly harsh type of distortion known as "clipping". This is one kind of limitations of digital technology.

# COMPRESSOR/LIMITER/SUSTAINER

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RATIO selector allow four different modes:

4:1 (moderate compression)

8:1 (midd-hard compression)

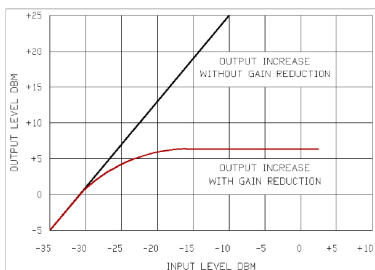
12:1 ( best use to mild limiting)

20:1 ( best use to hard limiting)

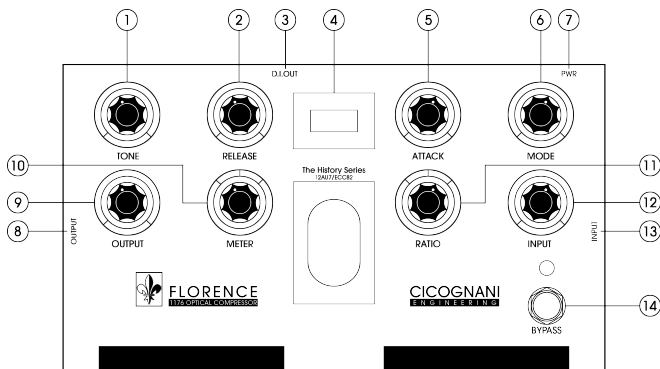
It's necessary to remember that a ratio of 4:1, however, means that any time there is an increase of 4 decibels in the loudness of the input signal, there will only be a 1db increase in output signal.

The decibel is a logarithmic form of measurement. Approximately 10db is normally required to increased the gain for a signal to sound twice as loud.

In the image you can see how the signal behaves relative to a compression with a 4:1 ratio



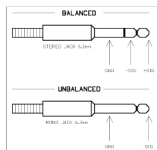
# CONTROLS



1. **Tone:** Compression tone control
2. **Release:** Signal release speed
3. **D.I. Out:** DI balanced/unbalanced out
4. **Magic Eyes:** VU meter
5. **Attack:** Signal attack speed
6. **Mode:** Compressor to Limiter balance
7. **PWR:** Main Power
8. **Output:** Output signal
9. **Output:** Output Level
10. **Meter:** 3 view modes of "VU"
11. **Ratio:** 4 ratio modality
12. **Input:** Input Level
13. **Input:** Input signal
14. **Bypass:** Bypass On/On switch

## Balanced/unbalanced DI connection :

The connection cable must be constructed following the instructions below.



# SPECIFICATIONS

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Power In	12VDC (Negative Tip)
Consumption	From 350 to Max 500mA
S/N Ratio	87db @ Max Lim.Value
Input Impedance	<1M Ohm
Max Input Signal	1.5Vpp
Out Impedance	<100K Ohm
Max Output Signal	2.2Vpp
Gain Reduction	Up to 42db +/- 1db
Distortion	<0.28% @ +24db
Tone Level and Filter	-6db @ 4400Hz
Max Return Signal	0.5Vpp
Max Spk Sim Out Signal	0.5Vpp
Volume Out	+4db
Tube Type	12AU7/ECC82
Estimated Tube Life	Up to 3000 hours
Weight	0.7kg (1.5 lbs)
Dimensions	220 x 130 x 50mm (8.6" x 5.1" x 1.96")
Connection:	Main Power (DC 2.1mm) Input (Jack mono 6.3mm) Output (Jack mono 6.3mm) DI Out (Jack St/mono 6.3mm)
Bypass Function:	Buffered
Linearity	20-40000Hz
Compression Rate	4:1 - 8:1 - 12:1 - 20:1
Attack Time	From 800 to 80mS
Release Time	From 1.5 to 90mS
Tone Q	4400Hz
Tone Level	-6db
Circuit Technology	Tube/JFET
Int. Power Booster	Dual Pwr +/- 12VDC
Meter VU and Peak	Input/Out Sig. Displays
Preamplifier Class	A

**CAUTION!** Make sure to check the power supply connection as per technical specifications. This pedal cannot be powered by a battery.

# SETTINGS

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**SOFT ENHANCING:** FLORENCE 1176 will enhance your soft touch and limit when your attack notes harder.



**SUSTAINER:** A good sustainer can be obtained by adjusting the long release time. This setting is indicated on ballads where an effective sound length is required.



**ACOUSTIC GUITAR:** A perfect dynamic control to touch. Using this setting "Live" or with your DAW.



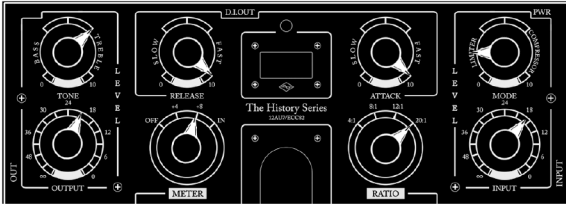
**ELECTRIC BASS:** With this setting you can obtain a natural compression ideal for slap or pick use.



# SETTINGS

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**LIMITER:** You can use the "Limiter" function to hardly cut excess signal peaks. The volume control in this case becomes the "Threshold" role.



**MASTERING:** This type of setting is suitable on DAW. It provides a soft compressor intervention that becomes hard when the signal excesses.



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## NOTE:

These settings are indicative because their effectiveness depends on the quantity of the input signal and the type of connection to the other devices. FLORENCE 1176 offers the possibility to be connected in line to instruments (hi-Z) or send / return (low-Z) with input levels max of 1Vpp. I have no particular other advice to give you. You must know that in music it has often been verified that, "great sounds", were also made with technically incorrect use of the devices and with crazy settings.

# GURU ADVISES

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1. Connect the main power to 12Vdc (min 350mA). Make sure the power supply is negative tip.
2. It is always better if the power supply current is higher; this reduces the preheating time of the valve.
3. Connect the "Output" to the amplifier "Input" or to return device.
4. Connect the "Input" to the instrument or to send device.
5. As soon as you turn "on" the pedal you will find the green bypass LED active.
6. Check by displaying the input level.
7. Make your favorite adjustments and check that the output volume is correct.
8. The connections are: Jack 6.3mm mono and Jack 6,3mm stereo to D.I. Out
9. The D.I. is a balanced low impedance out type and can also be used together with the main output.
10. Do not cover the front size required for unit cooling.

# WARRANTY TERMS

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The guarantee of the products is two years from the purchase data. Switches, buttons, relays are one year. The thermionic valves, indicator lights, wiring cables are guaranteed for three months.

Responsibility of **CICOGNANI ENGINEERING** is limited to repair or replacement of the product at our discretion.

**CICOGNANI ENGINEERING** not be liable for damages resulting from loss of use of the product, lost time operation interrupted by non-use, loss of business or any other damages or incidental, consequential or otherwise; damage in transit or damage caused by inadequate packaging.

**How to receive assistance:** Send an email to [sales@cicognani.eu](mailto:sales@cicognani.eu) in order to make agreements on how and where to send the product. The product must be sent together with a copy of the receipt/sales receipt. Shipping and packing costs are the responsibility of the purchaser.

**THE WARRANTY IS NOT VALID WITHOUT A COPY OF YOUR RECEIPT OF SALE CERTIFYING THE DATE OF PURCHASE.**





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