USERS MANUAL

DUAL

PURE SOUND

USER MANUAL PURPOSE
This user manual is dedicated to the use of the bass amplifiers DUAL.

The manual includes the following information:
• General information (technical data and packaging);
• Description of the amplifier's functions.
All the informations described on this user manual are verified.
The manufacturer reserves the right to update or modify their product without any notice.

PACKAGING AND STORAGE

PACKAGING
MINI ONE is packed in a special cardboard box. The box contains the amplifier, power supply cable and the user manual.

TRASPORT
Please handle the box with care. A specific position during the transport is not required.

STORAGE
Please keep the amplifier in a dry and ventilated place. Ideal storage conditions: temperature within -20C and 40C, Humidity 20% to 80%.

PRODUCT DISPOSAL
Please follow the disposal instruction issued by your local council.
In accordance with European Directive 2002/96 / EC, all electrical and electronic products should be disposed by specific collection facilities appointed by the government or the local authorities.

DECLARATION OF CONFORMITY
The product complies with the following European directive:

2014/35 / EU - Electrical Safety
2014/30 / EU - Electromagnetic Compatibility
2011/65 / EU - Limited use of certain hazardous substances in electrical and electronic equipment

A full copy of the declaration of conformity is available from the manufacturer.
The manufacturer is not responsible of any damage due to an improper use of the product.

DESCRIPTION

The GR-DUAL bass head offers the best compromise between portability and versatility for the modern bass player. This powerful amp holds two separate channels (each with dedicated functionality), giving the possibility to setup your rig in many different ways.

Ch1 and Ch2: Gain, 4 Band EQ, Deep Boost, Bright Boost, Line Out, DI and Master Volume.

extra on Ch1: Tuner, Pure Sound (by-pass of all EQ functionality), Send/Return and Headphones.

extra on Ch2: Drive with low cut, drive modes and blend function..

Main possible setups are:
A: Use the two different EQ settings with the same instrument (connected to Ch1 INPUT).
Using the CHANNEL SELECTOR on MIX it is possible to mix the two settings into the same output or change between the two (also possible by using the separately sold pedal board).

B: Two different instruments (such as a bass and a double bass or a keyboard) on two independent channels.

The dedicated DI OUT for each channel is an important feature of our GR-DUAL:
• **Ch1 and Ch2 DI can run separately,** one for each individual channel.
• **Both channels could be mixed into one DI (out on Ch1).**
Being able to manage two different sounds at once could make huge difference in both live and studio situations.

MAIN FEATURES

• 2 SPEAKON audio outputs (DUAL 1400: 1400W), 2 SPEA-KON audio output (DUAL 800: 800W)
• XLR DI Independent out (Ch1, Ch2)
• DI volume (Ch1, Ch2)
• Anti-bump on DI out
• Pre/post Eq. DI (Ch1, Ch2)
• Ground Lift DI (Ch1, Ch2)
• Headphones Output
• Tuner Output
• Send-Return (Ch1)
• Aux-In
• Output 9V, 250 mA
• Output USB charger, 300mA
• Gain control (Ch1, Ch2)
• Channel selector
• Bass, Mid-Low, Mid-High and High equalization control (Ch1, Ch2)
• Mid-Low frequencies switch (Ch1, Ch2)
• Mid-High frequencies switch (Ch1, Ch2)
• Deep boost (Ch1, Ch2)
• Bright boost (Ch1, Ch2)
• Pure Sound setting (Ch1)
• Mute
• Headphones volume
• Master Volume control
• VU-Meter
• Chromatic tuner
• "Studio" and "Live" fan mode operation
• OVERDRIVE
• Drive Low Cut filter
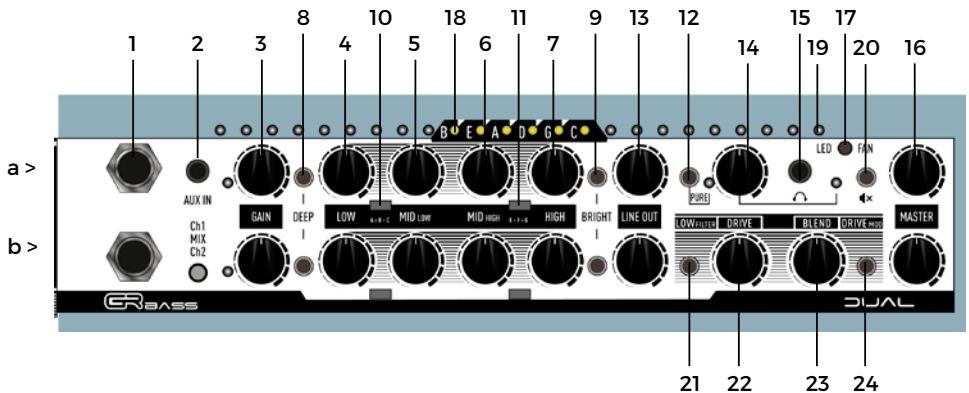• Drive
• Blend
• Drive mod.

TECHNICAL FEATURES DUAL 1400
· POWER RMS 1400W @ 4Ω
· DYNAMIC RANGE: 117dBA
· Parameters of nominal distortion output: a) TDH+N: -
0.005 % @ 1 W (4Ω, 1 kHz), 0.0008 % @ 50 W (4Ω, 100 Hz)
· Low output impedance: 6mW
· Total Efficiency: 84 % @ 1400W, 4Ω

TECHNICAL FEATURES DUAL 800
· POWER RMS 800W @ 4Ω
· DYNAMIC RANGE: 117dBA
· Parameters of nominal distortion output: a) TDH+N: -
0.005 % @ 1 W (4Ω, 1 kHz), 0.0008 % @ 50 W (4Ω, 100 Hz)
· Low output impedance: 6mW
· Total Efficiency: 84 % @ 800W, 4Ω

CONTROLS DESCRIPTION

FRONT PANEL CONTROLS

1.a INPUT JACK Ch1
1.b INPUT JACK Ch2
Input jack for you bass. We suggest to use a good quality cable, in order to obtain the best audio performance.

2. AUX-IN
3.5mm jack Auxiliar input to connect an external audio device

3.a GAIN CONTROL KNOB Ch1
3.b GAIN CONTROL KNOB Ch2
Sets the input signal amount of the pre-amp

4.a BASS KNOB Ch1
4.b BASS KNOB Ch2
Increases or reduces the bass frequencies of the signal

5.a MID-Low KNOB Ch1
5.b MID-Low KNOB Ch2
Increases or reduces the mid-low frequencies of the signal

6.a MID-High KNOB Ch1
6.b MID-High KNOB Ch2
Increases or reduces mid-high frequencies of the signal

7.a HIGH KNOB Ch1
7.b HIGH KNOB Ch2
Increases or reduces the high frequencies of the signal

8.a DEEP BUTTON Ch1
8.b DEEP BUTTON Ch2
Gives a more deep sound

9.a BRIGHT BUTTON Ch1
9.b BRIGHT BUTTON Ch2
Gives a more bright sound

10.a MID-Low SWITCH Ch1
10.b MID-Low SWITCH Ch2
Use this switch to change the frequency of the mid-low band from 185 Hz, 375 Hz and 800 Hz.

11.a MID-High SWITCH Ch1
11.b MID-High SWITCH Ch2
Use this switch to change the frequency of the mid-high and from 600 Hz, 1200 Hz and 1800 Hz.

12. PURE SWITCH
Allows to bypass all the equalization filters of the pream-plifier.
The pure-mode activation is signaled by the orange LED on the top of the button.

13.a DI KNOB Ch1
13.b DI KNOB Ch2
Controls the DI volume

14. HEADPHONES KNOB
Controls the headphones volume

15. HEADPHONES OUTPUT
3.5mm plug for headphones

16.a MASTER KNOB (CH1)
Controls the overall volume of the channel 1 output

16.b MASTER KNOB CH2
Controls the overall volume of the channel 2 output

17. OPERATION LED
Green = normal operation.
Orange = high level of the input signal (clip).

18. VU-METER - Chromatic tuner

24 LEDs bar that can be used as VU-METER, in order to 8 visualize the signal intensity, or as Chromatic tuner.
The six central LEDs, labeled by the letters B E A D G C, are very important when the LEDs bar is used as chromatic tuner. In fact they identify six different musical notes. Each of these LEDs will light blue or red, depending on whether you are playing a tuned or untuned note. In the case of an untuned note, the red LEDs on the left or the red LEDs on the right of the six central one, will red light up indicating a waning or increasing note respectively. The higher is the number of red LEDs on the more important is the untuned condition.

19. LED BUTTON

By pressing this button you can: a-scroll through the four VU-Meter display modes, b-select the mode tuner, c- turn off the 24 LED bar.
The last selection made on this button is always memorized.
On the DUAL 800 and DUAL 700x2 amplifiers, pressing the LED button for about 8 seconds allows to select the operation mode of the fans by switching from "LIVE" to "STUDIO" and vice-versa; a brief flash of 24 LEDs visually displays the selection change.
In "LIVE" mode the fans will activate when the amplifier reaches a safe temperature threshold. In "STUDIO" mode, the fans are normally turned off; however, after several hours of use and under rather hard climatic conditions, the fans may turn on. Every time the amplifier is switched on, the operating mode is reset to "LIVE" mode.

20. MUTE BUTTON

Turn off the amplifier output. The activation of this mode turns on the red LED on the left of the button. In this mode the Tuner is always on, whatever LED-mode is on.

21. CutLOW

Cuts low-end frequencies(High-pass filter) before the OVERDRIVE stage to make more clear and intelligible distorted sound

22. DRIVE KNOB

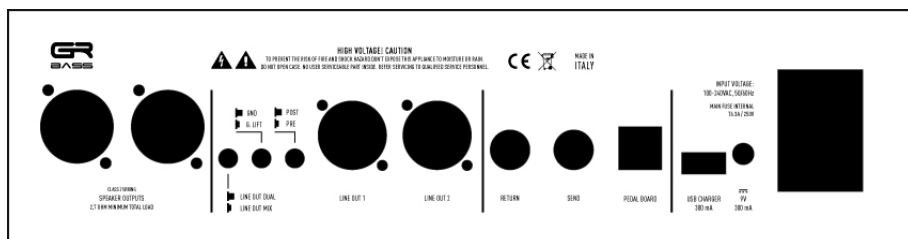Increases or reduces the amount of distortion.

23. BLEND KNOB

Select the clean/distorted ratio of the signal.

24. DISTORTION MOD BUTTON

Select the type of distortion (soft/hard clipping).

REAR PANEL CONTROLS

AC POWER SOCKET (230V - 115V)

IEC plug for power supply connection . The power supply self-recognation feature allows to power the GR-ONE with a voltage of 230V or 115V. The supplied cable is equipped with a ground wire. For safety and security reasons, never unplug the ground wire from your equipments.

POWER ON/OFF SWITCH

Switch on and off the amplifier.
9 VDC Out
9V DC output to connect external equipment (we recommend to connect 4-5 pedal effect maximum). The polarity is center negative.

USB CHARGER Out

5V DC USB output to charge your phone or any USB device. It delivers up to 300mA of current.

SEND

6.35mm jack plug to connect an external effect's input

RETURN
6.35mm jack plug to connect an external effect's output

DI OUTPUT (Ch1, Ch2)
XLR plug.
The DI output is equipped with anti-bump, which allows
you to turn on and off GR-ONE even with the mixer line
still on, without causing the annoying and noisy bump.

GND LIFT BUTTON (Ch1, Ch2)
Isolates the DI output from the ground wire.

PRE-POST DI BUTTON (Ch1, Ch2)
Allows you to choose the type of signal to be sent to the
DI output DI: PRE EQ or POST EQ.
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SPEAKON OUTPUT

It is possible to use a 6.35 mm jack. We recommend to
use a 2 poles speakon connector. Never use a 6.35 jack
guitar cable to connect your amplifier to your speakers.

LIMITED WARRANTY

The warranty covers a period of **five** years.
The warranty covers any defects in material or workmanship under normal use during the warranty period. Any shipping cost to/from the repair service centre is the customer's responsibility.
In the event of an irreparable damage or repeated failure of the same type, the manufacturer may replace the unit, within the term of the original warranty.

The warranty does not cover parts which may result faulty due to:
- Negligence or careless use
- Improper installation and maintenance
- Tampering made by unauthorized personnel
- Damages that might not be related to manufacturing defects.

The manufacturer accepts no responsibility for any damage due to persons, animals or things, as consequence of the failure to comply all the installation requirements and /or use indicated in this user manual.