



Harley Benton

G212A-FR
powered
guitar cabinet

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1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under www.thomann.de.

1.1 Further information

On our website (www.thomann.de) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:



Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used for amplification and playback of signals from musical instruments with electromagnetic pickups. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



CAUTION!

Possible hearing damage

The device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage.

Decrease the volume level immediately if you experience ringing in your ears or hearing impairment. If this is not possible, keep a greater distance or use sufficient ear protectors.



NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.

**NOTICE!****Operating conditions**

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.



NOTICE!

Possible damage due to installation of a wrong fuse

The use of different types of fuses can cause serious damage to the unit. Fire hazard!

Only fuses of the same type may be used.



NOTICE!

Possible property damage by magnetic fields

Loudspeakers produce a static magnetic field. Therefore, maintain an appropriate distance to devices that can be adversely affected or damaged by an external magnetic field.



NOTICE!

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

3 Features

- Maximum output power $2 \times 100 \text{ W @ } 8 \Omega$
- Operating modes: LINK mono, stereo
- Volume, Resonance and Presence adjustable per channel
- $2 \times 12''$ speaker and $2 \times 1''$ high frequency driver
- Fanless operation
- Can be set up or used as a tilt-back floor monitor
- MDF case with handle

4 Installation and starting up

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.



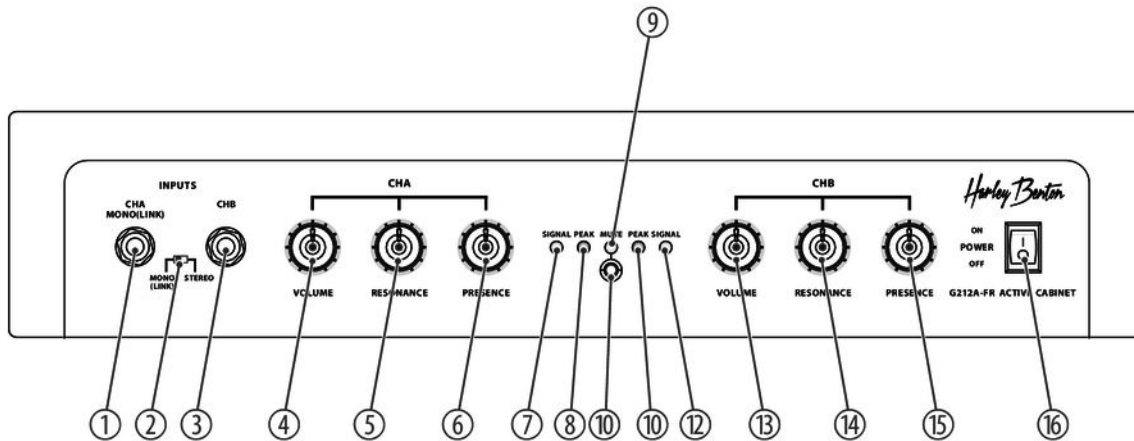
NOTICE!

Possible property damage by magnetic fields

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5 Connections and operating elements

Front panel

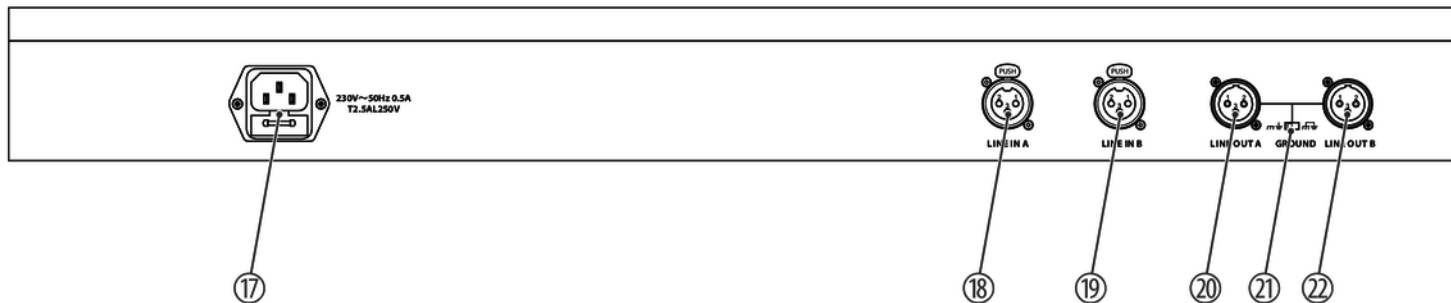


1	<i>[INPUTS CHA MONO(LINK)]</i> Input socket for channel A, designed as 1/4" jack socket
2	<i>[MONO(LINK) STEREO]</i> Switch to toggle between bridged mono operation via channel A and stereo operation via channels A and B.
3	<i>[INPUTS CHB]</i> Input socket for channel B, designed as 1/4" jack socket
4	<i>[VOLUME]</i> Volume control for channel A
5	<i>[RESONANCE]</i> Resonance control for channel A
6	<i>[PRESENCE]</i> Presence control for channel A
7	<i>[SIGNAL]</i> Indicator LED (green). This LED lights up when the device is turned on and a signal is present in channel A.

8	<i>[PEAK]</i> Indicator LED (red). This LED lights up when Channel A is overloaded by an excessive input signal.
9	<i>[MUTE]</i> Indicator LED (red). The LED lights up when the device is muted.
10	Switch to mute the device.
11	<i>[PEAK]</i> Indicator LED (red). This LED lights up when Channel B is overloaded by an excessive input signal.
12	<i>[SIGNAL]</i> Indicator LED (green). This LED lights up when the device is turned on and a signal is present in channel B.
13	<i>[VOLUME]</i> Volume control for channel B
14	<i>[RESONANCE]</i> Resonance control for channel B

- | | |
|----|--|
| 15 | <i>[PRESENCE]</i>
Presence control for channel B |
| 16 | <i>[POWER ON OFF]</i>
Main switch to turn the device on and off |

Rear panel



17	IEC chassis plug with fuse holder for power supply
18	<i>[LINE IN A]</i> Input socket for a line signal for channel A, designed as 1/4" jack socket
19	<i>[LINE IN B]</i> Input socket for a line signal for channel B, designed as 1/4" jack socket
20	<i>[LINE OUT A]</i> Output socket for connecting a power amplifier or another powered speaker cabinet (channel A), designed as XLR panel plug, 3-pin (balanced)
21	<i>[GROUND]</i> Switch to disconnect the ground from the balanced output
22	<i>[LINE OUT B]</i> Output socket for connecting a power amplifier or another powered speaker cabinet (channel B), designed as XLR panel plug, 3-pin (balanced)

6 Technical specifications

Speaker	2 × 12" speaker and 2 × 1" high frequency driver	
Input connections	Voltage supply	IEC chassis plug C14
	Signal input	2 × 1/4" jack socket
	LINE IN	2 × XLR panel socket, 3-pin
Output connections	LINE OUT	2 × XLR panel plug, 3-pin
Input impedance	20 kΩ (balanced), 10 kΩ (unbalanced)	
Input sensitivity	LINE: 1V (RMS), INPUTS: 200 mV (RMS)	
Output power	2 × 100 W (RMS) @ 8 Ω	
Frequency response (-3 dB)	120 Hz to 5 kHz	
Sound pressure level (SPL), max.	124 dB/130 dB (peak)	
Beam angle	H:60°, V:40°	

Total harmonic distortion (THD)	0.5% (Clean-Sound)	
Power consumption	max. 250 W	
Operating supply voltage	230 V ~ 50Hz	
Fuse	5 mm × 20 mm, 2 A, 250 V, slow-blow	
Dimensions (W × H × D)	706 mm × 356 mm × 518 mm	
Weight	22.5 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	50 %, non-condensing

Further information

Stereo	Yes
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7 Plug and connection assignment

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

Balanced and unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180°.

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

1/4" TS phone plug (mono, unbalanced)



1	Signal
2	Ground, shielding

1/4" TRS phone plug (stereo, unbalanced)



1	Signal (left)
2	Signal (right)
3	Ground

DMX connections



The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX-, 'cold signal')
3	Signal (DMX+, 'hot signal')

8 Cleaning

Fan grids

The fan grids of the device must be cleaned of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

9 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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