G-Speaker

USER'S MANUAL

GPS-8

Full Range Personal Monitor & PA System

GALAXY AUDIO®

MAKERS OF THE ORIGINAL HOT SPOT PERSONAL MONITOR

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Contents

Introduction

1. Introduction

Thank you for choosing a Galaxy GPS-8 Full Range Powered Monitor/PA System. You have joined hundreds of thousands of other satisfied Galaxy customers. Since 1977 Galaxy Audio's professional experience in design and manufacturing ensure our products' quality, performance and reliability.

For the most up to date manual and information
visit www.galaxyaudio.com.

Safety

2. Safety

This symbol indicates that dangerous voltage Constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important Operating and maintenance instructions in the Literature Accompanying This Unit

! IMPORTANT SAFETY INSTRUCTIONS !

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 wider blade or the third prong are 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 a 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 dam-Aged, 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.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. Remove the batteries from the receiver if the system will not be used for a long period of time. This will avoid any damage resulting from a defective, leaking battery.
17. DO NOT throw used batteries into a fire. Be sure to dispose of or recycle used batteries in accordance with local waste disposal laws.

Loudspeaker systems should be used in a safe manner.

Avoiding Hearing Damage: Professional loudspeakers are capable of producing extremely high sound levels and should be used carefully. Never stand close to loudspeakers that are driven at a high volume. Set the volume to a safe level. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. Hearing loss gets worse every time you're exposed to a sound level of 90 dB or over for an extended period of time. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. The louder the volume, the less time is required before your hearing could be affected.

Unpacking

3. Unpacking

Galaxy Audio speakers are built with the highest standards and are inspected thoroughly before shipping out. When received, inspect the shipping carton carefully, examine, and test your new product. If any damage is found, immediately notify Galaxy Audio.

4. AMPLIFIER

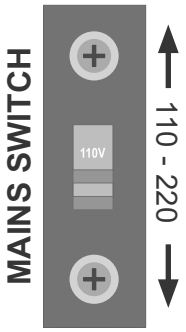
4.1 AC Power Connector

The amplifier module and any audio equipment connected to it (mixing consoles, processors, etc.) must be properly connected to the AC power distribution, preserving AC line polarity. All grounding points should be connected to a single node or common point, using the same cable gauge as the neutral and line cables. Bad grounding connections within an audio system can produce noise, hum and/or serious damage to the input/output stages in the system's electronic equipment.

Important: Before applying AC to any Galaxy self-powered speaker, be sure that the voltage potential difference between neutral and earth ground is less than 5 VAC.

4.2 Voltage Requirements

The GPS-8 operates safely and without audio discontinuity if the AC voltage stays within either of two operating windows: 95-125 V at 50 or 60 Hz (Mains Switch set on 110 V) or 195-250 V at 50 or 60 Hz (Mains Switch set on 220 V). Be sure that both voltage set on the selector and AC Power have the same value.



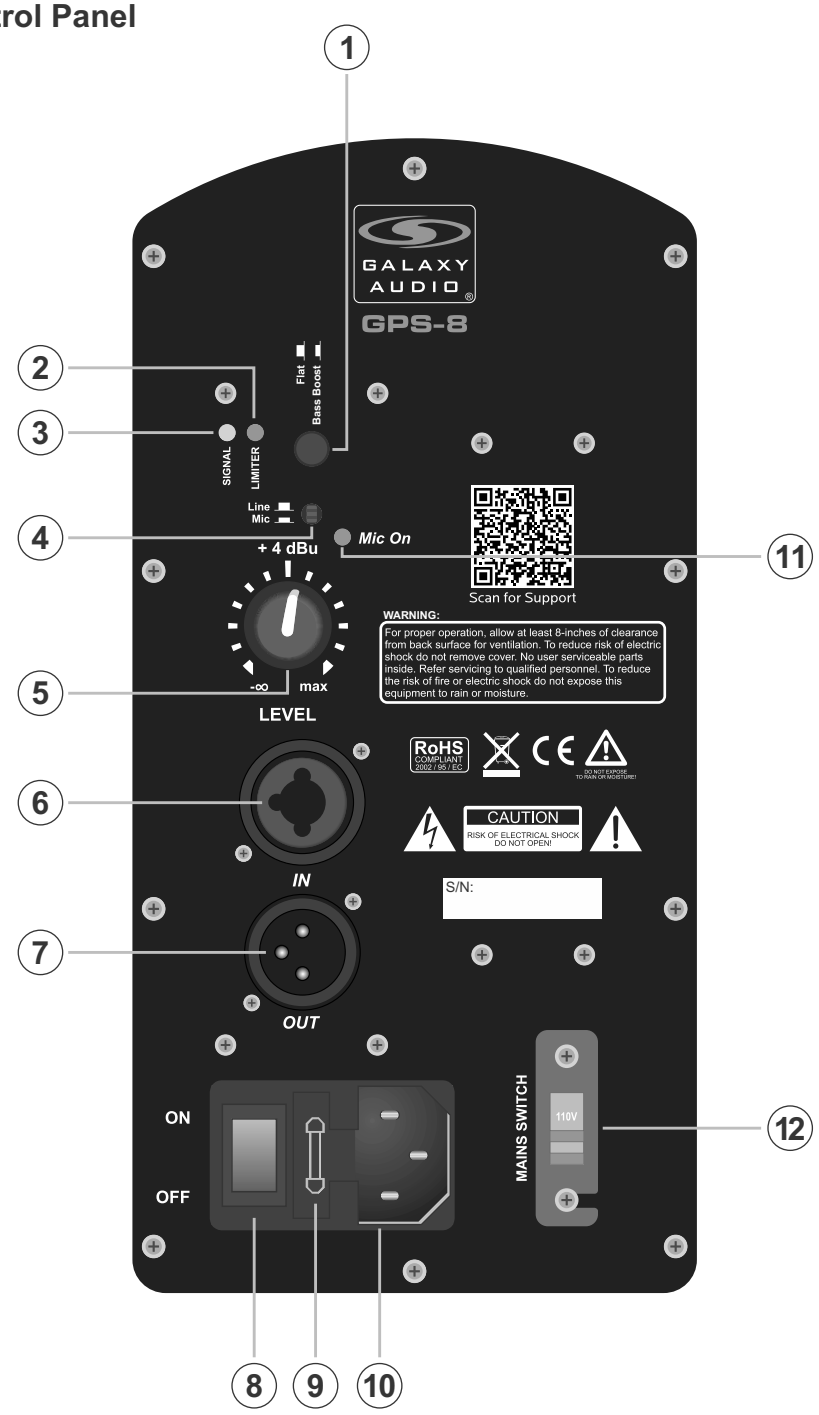
Important: Connecting the speaker on a 220 V AC Power with the Mains Switch set on 110 V will cause heavy damage to the device and serious risk for users.

4.3 Current Requirements

The GPS-8 presents a dynamic load to the AC mains, drawing additional current as operating levels increase. Different cables and circuit breakers heat up at varying rates, so it is essential to understand current ratings and how they correspond to circuit breaker and cable specifications. Maximum continuous RMS current - measured over a period of at least ten seconds - is used to calculate the temperature increase in cables, which drives the proper size and gauge cable and rating for slow-reacting thermal breakers. Maximum burst RMS current - measured over a period of approximately one second - is used to select the rating for fast reacting magnetic breakers.

For best performance, voltage drops should not exceed 10% at 110 V or 5% at 220 V.

4.4 Amplifier Control Panel



1. Bass Boost
2. Limiter Indicator
3. Signal Indicator
4. Mic/Line Selector
5. Level Control
6. Mic/Line Input
7. Parallel Output
8. Power Switch
9. Fuse Holder
10. AC Input
11. Mic On Indicator
12. Mains Switch

4.5 Amplifier Control Panel Functions

1. **Bass Boost:** Pressing in this button engages a filter that provides 3 dB of boost to the low and high frequencies (below 100 Hz and above 12 kHz) to get a punchier sounds.

2. **Limiter Indicator:** This LED indicator will light whenever the limit circuit is active, meaning that the signal level of the amplifier output is approaching clipping. The Limit Indicator may blink occasionally, but if it blinks frequently or continuously, turn down the signal level at the signal source, or turn down the GPS-8's Level Control.

3. **Signal Indicator:** The LED indicator will light whenever there is a signal at the Mic/Line Input. It senses the signal just after the Level Control, therefore if the Level Control is turned down, the Signal Indicator will not light.

4. **Mic/Line Selector:** Leave this switch out when connecting a line-level signal to the Mic/Line Input (from a mixer, a CD player or other line-level signal course). Push this switch in when connecting a microphone to the Mic/Line Input. Since a microphone produces a much smaller signal than a line-level signal, this provides an additional 40 dB of gain to boost the microphone signal to a line level.

5. **Level Control:** This knob is used to adjust the signal level from Off to 45 dB of gain.

6. **Mic/Line Input:** Female XLR and 1/4" TRS combo connector accepting balanced or unbalanced mic-level or line-level signals.

7. **Parallel Output:** Male XLR connector providing a direct signal from Mic/Line Input. Used to form a daisy-chain with the input signal to another powered speaker.

8. **Power Switch:** Flip the switch up to turn the speaker on and flip the switch down to turn it off. Make sure the Level Control is down before you turn it on/off.

9. **Fuse Holder:** If the unit will not power up, check the replaceable fuse. The unit includes a spare fuse in the Fuse Holder.

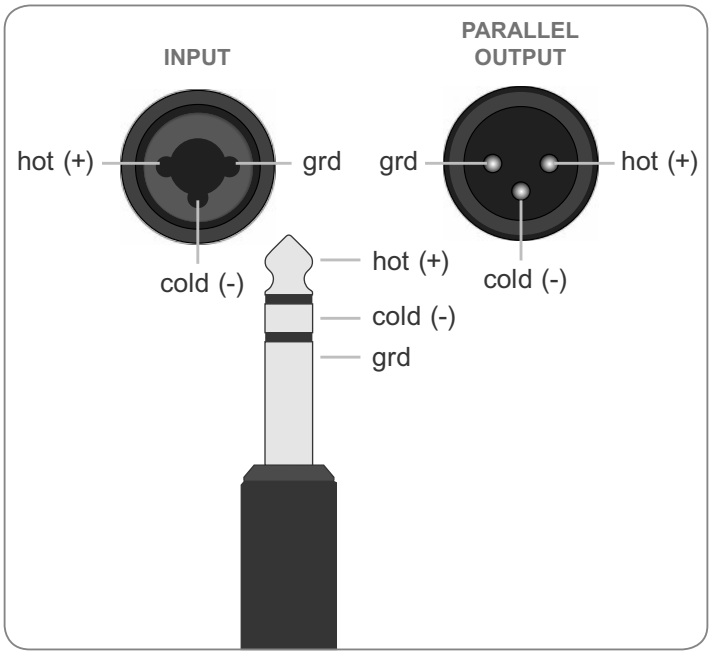
10. **AC Input:** IEC socket for AC power. Always use a three-pin plug with a ground pin.

11. **Mic On Indicator:** This LED lights whenever the Mic/Line switch is pushed in.

12. **Mains Switch:** Allows the user to select different country voltage ratings.

4.6 Audio Input Connector Wiring

Line/Mic Input (female XLR/TRS 1/4") is wired in parallel to Line/Mic Parallel Output (male XLR). To create your own audio cables, please use the following wiring diagrams:



5. Quick Start

1. Turn the power switch off (down). Set the voltage on the Mains Switch according to your country voltage rating.

2. Start by making sure the Bass Boost and Mic/Line buttons are off (extended outward). If using a microphone as the input to the GPS-8, push the Mic/Line button in to turn on. If using a mixer, a CD player, or other line-level source as the input to the GPS-8, leave the Mic/Line button off. Turn the Level Control down (counter-clockwise).

3. Connect the output from your signal source, directly to the Mic/Line Input connector.

4. Connect the supplied AC power cord to the IEC socket. Plug the other end into a properly grounded AC outlet.

5. Turn on your signal source. Make sure its Master Volume (if it has one) is fully turned down.

6. Turn the GPS-8 on using the power switch.

7. Start the signal source, whether it be speaking into a microphone or starting a CD player. Adjust any volume controls on the signal source for normal operation.

8. Slowly turn the Level Control up on the GPS-8 until the desired volume is reached (and the Limiter indicator light does not come on). Always wear hearing protectors if you are close when it is playing at high levels.

9. If there is no sound, always turn down the GPS-8 Level Control before investigating.

6. Specifications

Frequency Response: (±3 dB) 75 Hz - 17.5 kHz
Output/Peak: 200 Watts
Sensitivity: 100 dB, 1 W @ 1 m
Max SPL: 123 dB
Speaker Compliment: 8" Diameter Woofer, 1" Compression Driver
Nominal Impedance: 4 Ohms
Nominal Coverage Pattern: 90° H x 60° V
Input Connections: One - XLR/1/4" Combo Balanced/Unbalanced
Output Connections: One - XLR Balanced
Controls: Level, Mic/Line, Power, Bass Boost +3 dB @ 90 Hz
Indicators: Power LED, Signal LED, Limit LED, Mic LED
Protection: Limit, Thermal, Over-Excursion
Power Supply: 110/220 VAC, 2A
***Splowt:** 7
Enclosure Material: ABS Plastic, Steel Grill
Mounting/Rigging: 1-3/8" (35 mm) Pole Socket,
Four M8 T-nut Mounting Points
Handle: Integrated
Color: Black
Accessories: Power Cable
Dimensions: 16.34" x 11.6" x 8.66" (HxWxD)
(415 x 295 x 220 mm)
Weight: 17 lbs (7.7 kg)

***Splowt:** A unit of measure, expressed as dB, that divides a speaker's maximum SPL by its weight in pounds.

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THREE YEAR LIMITED WARRANTY

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GPS-8

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Specifications in this manual are subject to change without notice.
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V20160824