

GT8

8" passive full-range loudspeaker with compression driver and sealed aluminum cabinet

Thank you for choosing KGEAR!

To ensure proper operation, please carefully read this owner's manual and safety instruction before using the product. After reading this manual, be sure to keep it for future reference.

If you have any questions about your new device please contact K-array customer service at info@kgear.it or contact the local distributor in your country.

The GT8" is a passive full-range loudspeaker featuring a 8" ferrite magnet woofer, a patented 1" compression driver, and a 8" passive radiator, all housed in a sealed aluminum cabinet for maximum reliability and resistance in demanding environments.

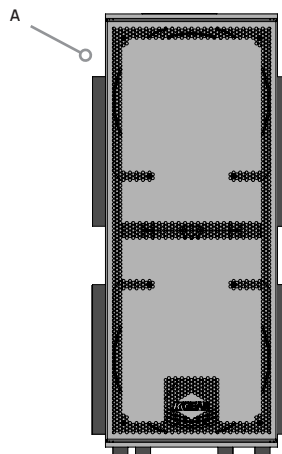
With a 80 Hz – 19 kHz (-6 dB) frequency response, 130 dB peak output, and a rotatable 60° × 90° dispersion, the GT8" delivers powerful, controlled sound for both speech and music reinforcement.

Thanks to its compact form factor, rugged build, and compatibility with a wide range of mounting accessories, the GT8 is ideal for fixed installations, live sound, stage monitoring, and modular array configurations, both indoor and outdoor (IP54 with dedicated accessories).

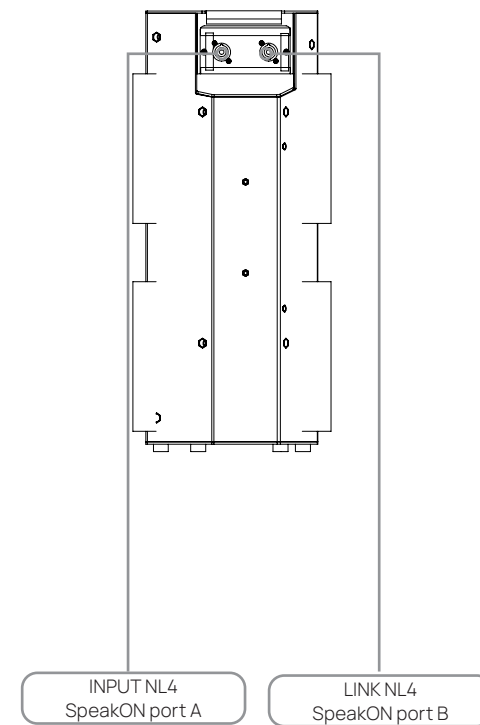
Unpacking

Each KGEAR device is inspected before leaving the factory. Upon arrival, carefully inspect the shipping carton, then examine and test your new device. If you find any damage, immediately notify the shipping company. Check that the following parts are supplied with the product:

- A. 1x GT8 8" passive full-range loudspeaker.



GT8 Rear Panel



Wiring

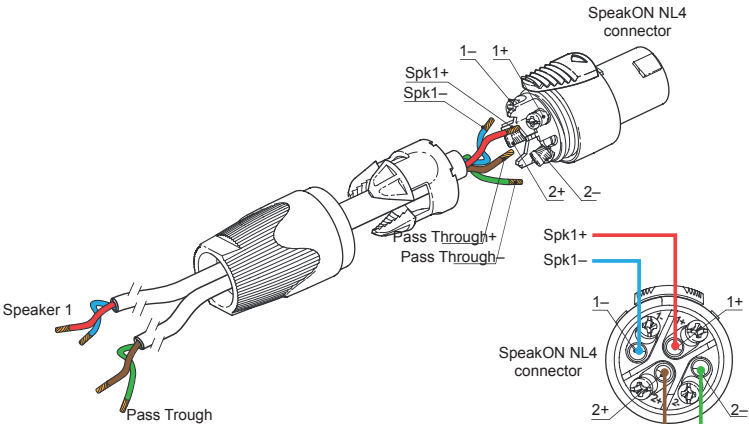
The GT8 is a two-way passive loudspeaker. The incoming audio signal is connected to the 1+ / 1- pins of each one of the SpeakON NL4 connectors.

An internal passive crossover distributes the frequencies between the 8" woofer and the 1" compression driver, ensuring optimal performance without the need for external processing.

The enclosure also includes a 8" passive radiator, which is not directly connected to the input circuit. Instead, it vibrates in sympathy with the woofer's movement, reinforcing and extending the system's low-frequency response.

The 2+ / 2- pins are wired in parallel (pass-through) and can be used to route the signal to an additional loudspeaker.

1+1- / 2+ 2-
SIG IN / LINK OUT trough



SpeakON pin-out		GT8	
A	1	1+ 1-	SIGNAL / IN
		2+ 2-	TROUGH / LINK OUT
B	2	1+ 1-	SIGNAL / IN
		2+ 2-	TROUGH / LINK OUT

Amplifier Channel Matching

Amplifier Matching

Before connecting the loudspeaker, make sure the correct impedance value for your audio system is set. Always connect the unit to a suitable KGEAR or K-array amplifier designed to handle the required load.

When connecting multiple loudspeakers in parallel, the total impedance decreases. To prevent overload or damage to the amplifier, please refer to the appropriate matching table, available at the links below:



KGEAR-to-KGEAR



K-array-to-KGEAR



Always check the loudspeaker impedance before connecting the amplifier.



Proper loudspeaker operation requires the use of a dedicated preset.

Speaker Positioning and configurations

The GT8 can be installed in different ways depending on the application. Correct positioning is essential to achieve balanced frequency response and uniform coverage.

Single-unit applications stand-alone installations (fig.a)

1. **Stand mounting** – The GT8 is not equipped with an integrated pole socket. The rear panel provides threaded mounting points that allow the installation of a standard 35 mm pole **GT8-POLEMOUNT** adapter, enabling direct mounting on an adjustable loudspeaker stand (typically from about 70 cm up to over 1.5 m in height). This configuration is particularly suitable for mobile use, live events, or temporary installations.
 2. **Wall and ceiling mounting:** the GT8 can be wall-mounted using the **GT8-UBRACKET**.
 3. **Wall and ceiling mounting (angled)** – The GT8 can be mounted on walls or ceilings using the **GT8-CORNER** bracket. This accessory features two angled elements that follow the enclosure profile, ensuring a clean and integrated installation while allowing vertical tilt adjustment for optimal sound coverage.
- Keep enough distance from walls, corners, and large surfaces to avoid unwanted reflections or low-frequency build-up.
 - In indoor installations, it is advisable to fine-tune the system to optimize the response.
 - When mounted vertically on a wall, angle the loudspeaker downward toward the listening area.
 - When mounted horizontally from a ceiling, tilt the loudspeaker down to direct the coverage properly.

Multiple units - Cluster configurations

The GT12 can also be combined in clusters to increase and improve coverage and output:

4. **Horizontal clusters - with GT8-JOINT + GT8-BUMPER**
5. **Vertical clusters - with GT8-FLYV flying hardware**
 - **Horizontal clusters (2–3 units):** Units can be mounted side by side and suspended from multiple rigging points. Clusters can also be arranged in circular arrays to achieve 360° coverage. The horn orientation (typically 60° V × 90° H) should be considered based on the required dispersion. These setups provide effective near-field coverage, but attention should be paid to possible low-frequency interactions.
 - **Vertical clusters (up to 4 units):** With the **GT8-FLYV** frame, multiple GT12s can be flown to form a coherent source. Using the standard horn orientation (60° V × 90° H), this configuration provides consistent near-field coverage and controlled projection for longer distances.

Stage monitor applications - live clubs and events With GT8-WEDGE (fig.B)

The **GT8-WEDGE** is an accessory consisting of two brackets with adjustable tilt, allowing flexible orientation of the GT8.

It transforms the loudspeaker into a reliable stage monitor with an adjustable angle from 30° to 55°. Thanks to its stable structure, it is ideal for live performances and can also be used in angled front-fill configurations.

- Adjustable tilt from 30° to 55°
- Two-bracket system for stable orientation
- Ideal for stage monitoring in live performances

This quick guide provides the essential technical information for the correct operation of the product. Detailed information regarding mounting, dedicated accessories, and installation procedures will be available in the next revision of the complete documentation.

GT8

Technical specifications	
Type	Passive loudspeaker
Transducer	8" ferrite magnet woofer, 1" compression driver (patented) 8" passive radiator
Frequency Response ¹	80 Hz - 20 kHz (-6dB) / Natural preset
Frequency Response ¹	60 Hz - 20 kHz (-6dB) / Full-range preset
Max SPL ²	130 dB (peak) half space / Natural preset
Max SPL ²	122 dB (peak) half space / Full-range preset
Rated power	450 W
Coverage	V. 60° - H. 90° Rotatable
Connectors	2xSpeakOn NL4, 1+ 1- (signal); 2+ 2- (through)
Nominal Impedance	8Ω
IP Rating ³	IP54
Handling & Finishes	
Dimensions (WxHxD)	340 mm (13,38in) 800mm (31,49in) 215mm (8,46in)
Weight	9,5 kg (21lb)
Material	Aluminum
Color	Black

1 With dedicated preset

2 Maximum SPL is calculated using a signal with crest factor 4 (12 dB) measured at 8 m then scaled at 1 m

3 More protections with K-IP65KITA and K-IP65KITB accessories.