

ging rooms. The precise, broadband sound bundling to a nominal 20° (50°-GL 24 j-version) vertical dispersion is achieved through the acoustic coupling of two slightly curved line arrays, arranged one behind the other within the cabinet. This innovative arrangement is complemented by the horn guide in the high frequency range to ensure an exceptionally homogeneous and symmetrical 100° horizontal dispersion. The GL 24 systems are particularly suitable for individual applications up to a distance of 25 metres, and can also be used as a downfill under the GL 16i. The integrated amplifier electronics are based on Class D power amplifiers, which are controlled via particularly low-noise FPGA DSP processing. Various factory-configured presets and volume settings can be called up. Remote monitoring and control is carried out via the Ethernet interface using SEE-BURG Network Manager. Signal transmission (AoE) in accordance with the AES 67 standard is also possible.

Active high-performance line array systems for optimised speech and music reproduction in acoustically challen-

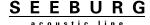
PRODUCT SPECIFICATIONS

Speaker Components	6 x 6,5" Nd / 24 x 1" Nd Tweeter
Description	Digitally Powered Cylindric Wave Radiator
Amp Power	2 x 800 W AES biamped / 110-230 V
Rated Current	1,8 A @ 230 V
SPL Peak @ 1 m	>130 dB
Max. Input Signal	25 dBu
DSP	DPLMx FPGA Processing 32 bit floating point
AD / DA	24 bit / 96 kHz
Latency	0,8 ms (analog in to analog out)
Usable Range	80 Hz - 20 kHz (-6 dB)
Tuning Frequency excursion minimum	90 Hz
X-Overpoint acoustical	Depends on preset
Coverage horizontal / vertical	100° x 20° - degressive curved 100° x 50° - j-curved (GL 24 j)
Mechanical Splay Angle	13° 43° (GL 24 i)
Connectors	XLR in/thru, Ethercon, Powercon in/thru, Speakon NL4MP out
Rigging / Fittings	9 x M10 (GL 24 / GL 24 j) 35 mm pole mount (GL 24)
Weight	22 kg
Size height x width x depth	106,0 x 18,9 x 34,3 (24,5) 100,6 x 18,9 x 52,0 (24,5) (GL 24 j)
Order No.	00520/dp 00520/j/dp (GL 24 j)

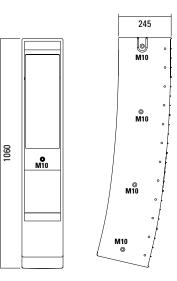




GL 24 j (50°-j-curved-version)



GL 24 Standard

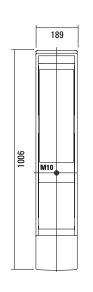


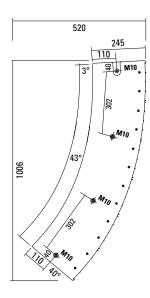




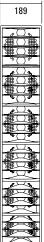


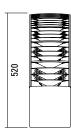
GL 24 j (50°-j-curved)



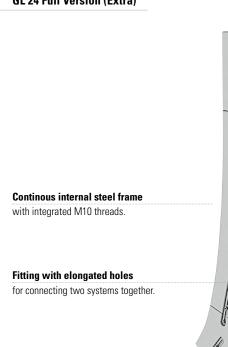








GL 24 Full Version (Extra)



GL8i

GL 24 Full Version



GL 8 c

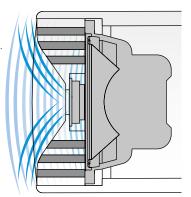


AMR® Principle.*

The AMR horn contains integrated channels which allow the sound waves generated by the low-mid speakers mounted behind the horn to pass through.

For sound waves in the frequency range generated by the 1" HF driver, these channels behave as if they were sealed due to the air mass inside the channels acting as a reflector (AMR = Air Mass Reflection).

The low-mid speakers are coupled to an acoustical band pass filter with a center frequency close to the crossover frequency between the Mid and HF drivers. This construction provides smooth horizontal dispersion over a wide frequency range. Another asset is the extreme compactness of this design.

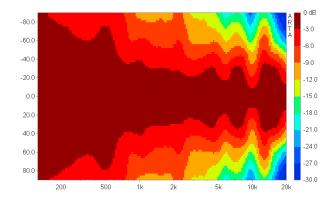


*patentrechtlich geschützt

COVERAGE PATTERNS

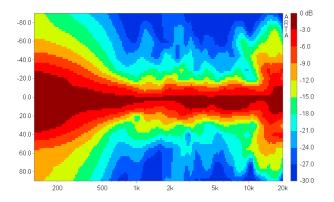
GL 24 horizontal - 2D Directivity Plot

100° horizontal dispersion for good performance in wide venues.



GL 24 vertikal - 2D Directivity Plot

The j-curving leads to an unsymmetrical vertical dispersion, narrower in th upper section for long throw and wider in the lower section for near field.





2 x GL 16 i / GL 24 For applications up to 80 m distance.



GL 8 i / GL 24



GL 8 i / GL 24 j



GL 8 i / GL 24 j / GL 8 c



Flying Cradle



Integrated 35 mm pole mount.



Flying Bracket



GL 24 / G Sub 1501 For applications up to 25 m distance.



GL 16 i / GL 24 / G Sub 1801 For applications up to 40 m distance.



GL 24 / 2 x GL 16 Sub

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Level

Status

Mute LED

Limit LFD

Signal LED

Power LED

Ethercon

noise.

exceeds -20 dBu

critical conditions.

Adjustment in 3 dB steps (-6 dB to +3 dB).

Red light when the system

is muted or under technically

Yellow light when the limiter

Green light when the input signal

Green light when the system is switched on.

Interface for remote control and audio transfer via ethernet (AES 67).

- Symmetrical analog input.

- Effective filter protection against

HF interference and DC Voltages.

- Electronically balanced to prevent

is restricting the level.

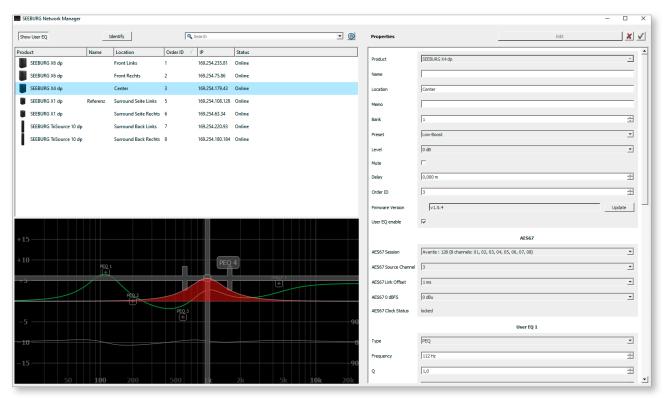
The GL 24 dp features integrated digital amplifier electronics with a DSP controller (dp = digitally powered). Various factory-configured presets and volume settings can be called up directly on the box or via a network connection.

High-grade electronic components from the industrial sector and a first-class circuit design ensure excellent audio quality with low distortion and a minimal noise floor. Highly efficient and "intelligent" limiter systems ensure optimum protection against overload, without restricting the possibilities offered by this high-performance sound system.



SEEBURG NETWORK Manager

With the Software SEEBURG Network Manager all selfpowered systems can be controlled via network.



Features:

- Remote control of functions such as recalling presets and banks, level control and mute, and locking the controls on the loudspeakers.
- > Visual display of all systems connected to the control network.
- > Storable names and location labels with a global search function.
- > **Selection of loudspeakers** in the list for simultanious set-up and control changes.
- > Fully parametric user EQs and delay settings for time alignment, with a graphical user interface
- > Time Delay with up to 2.8 seconds runtime.
- > Audio-over-Ethernet (AoE) via AES 67.
- > Connection with media control systems via API.
- > Basic network settings.
- > Documentation is available online.
- > **Identification function** by way of flashing LEDs on the dp loudspeaker systems.
- > Firmware updates can be applied.

Quick Start Guide:

www.seeburg.com > DOWNLOADS > User Manuals

AES NETWORK interface

All selfpowered systems are equipped as standard with an **AES Network interface**.

This is used for **remote control** via the

SEEBURG Network Manager and for

Audio-over-Ethernet (AoE)
audio transmission via AES 67.



AES Network





Flying Cradle

for GL System, max. load 120 kg, incl. shackle (01372/GL) Order No. **01354**



Quick Trigger TV Clamp

Max. load 200 kg Order No. **01223/TV**



Flying Bracket

GL 24 / GL 24 j, incl. (black version: 4 x M10 x 20 handle screws, 1 x knurled head nut, white version: 4 x M10 x 20 socket head screws 1 x knurled head nut) Order No. 01352/GL24/set/w (RAL 9010) Order No. 01352/GL24/set



Quick Trigger Clamp

max. load 100 kg Order No. **01223/100 kg**



Handle Screw

for flying brackets, adjustable Order No. **08375/20** (M10 x 20) Order No. **08375/30** (M10 x 30)



TV Adapter

M20 external thread, 28 mm \emptyset

Order No. 08128/M20



Clamping Bar

for flying bracket GL 24 / GL 24 j, for stronger angling Order No. **01352/clamp**



Shackle

for GL flying cradle, max. load 1000 kg Order No. **01372/GL**



Connection Bar

GL 24 standard version -> GL 8 c for Downfill, a pair, incl. accessories Order No. **08159**



Ring Screw

M10- DIN 580

Order No. **73700** (zinced) Order No. **73700/sw** (black zinced)



Pole Mount Adapter - M20

for flying bracket, M20 x 35 mm with nut, incl. 1 x M20 x 30 socket head screw, 1 x flat

Order No. 08127/nut



Steel Safety

6 mm x 600 mm, black, max. load 22 kg (BGI 810-3), quick connector undetachably

Order No. 01376/6



Chain Fastener

VBS 7 mm Order No. **01378**



TV Adapter -> Flying Bracket



Clamping Bar



Spacer

ACCESSORIES GL 24



Wall Mount

2 x M6 fixing holes (d=73 mm), 1 x M10 fixing hole (center), max. load 25 kg

Order No. **03034/w** (RAL 9010) Order No. 03034



Spacer

for wall mount (03034), M10 x 55 (screw), polyurea coated

Order No. 03034/spc



Wall Mount

for U-brackets, max. load 40 kg, incl. screws (M10 x 70 mm socket head screw. M10 hex lock nut and flat washer)

Order No. 08130/F400/w (RAL 9010) Order No. 08130/F400

Order No. 08130/F/269/w (RAL 9010) Order No. 08130/F/269



Speaker Stand

incl. wind up,



Stretch Cover

for GL 24 / GL 24 j

Order No. 01233/stretch/black Order No. 01233/stretch/grey Order No. 01233/stretch/white



Rain Cover

for GL 24, incl. low lid, connectable to other covers of the GL-system

Order No. 01233/outdoor/2



Bag

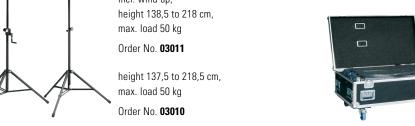
for one unit GL 24 Order No. 01233



Flight Case

for 2 pcs. GL 24 units, and accessories, heavy duty, 9 mm birch multiplex, PVC coated, hinged lid, 8 x recessed sprung handles, 2 x butterfly catches, 4 x 100 mm blue wheels, 2 pcs. with brake, stackable, inserts for accessories, interior lined with felt, loading measurements, Size (H x W x D): 48,0 x 115,5 x 61,0 cm

Order No. 16013/pro/T



EXTRAS



Grille on Front

Order No. 01179/GL 24



Acoustic Foam on Front

Order No. 01178/GL 24



Full Version

Integrated Flying Frame with connecting bars

Order No. 01177/GL 24



Colour Selection

RAL 9010, Pure White Order No. 01199/GL 24

<u>S E E B U R G</u>

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