



Active high-performance line array systems for optimised speech and music reproduction in acoustically challenging rooms. The precise, broadband sound bundling to a nominal 20° 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 digital amplifier technology provides 2 x 800 Watt and DSP control.

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 <small>Peak @ 1 m</small>	>130 dB
Max. Input Signal	25 dBu
DSP	HDLM 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 <small>excursion minimum</small>	90 Hz
X-Overpoint <small>acoustical</small>	Depends on preset
Coverage <small>horizontal / vertical</small>	100° x 20°
Mechanical Splay Angle	13°
Connectors	Neutrik XLR in/out Neutrik PowerCon in/out Neutrik Speakon NL4MP out
Handles	2 x
Rigging / Fittings	9 x M10 35 mm pole mount
Weight	22,0 kg
Size <small>height x width x depth</small>	106,0 x 19,0 x 34,3 (24,5) cm
Order No.	00520/dp

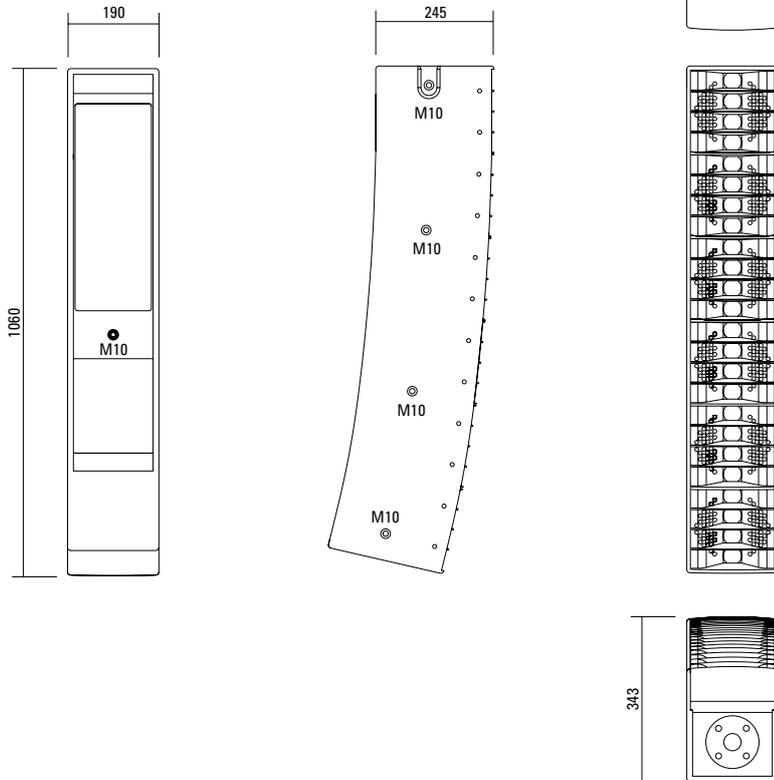


Flying bracket.



Integrated fittings for easy connection.

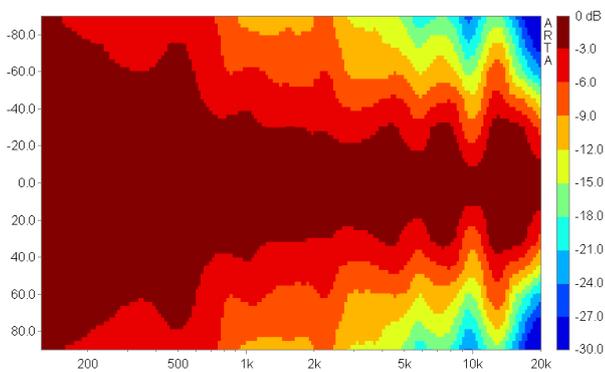
DIMENSIONS



COVERAGE PATTERNS

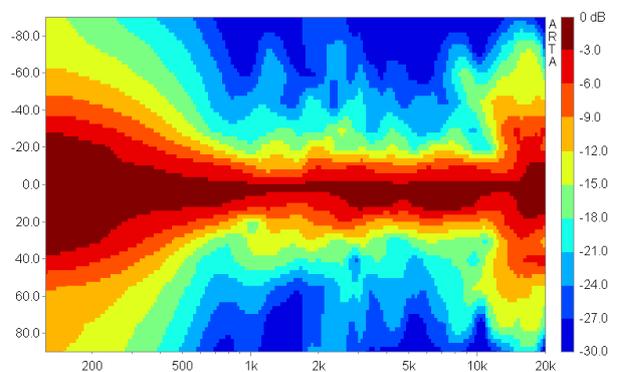
GL 24 horizontal - 2D Directivity Plot

100° horizontal dispersion for good performance in wide venues.

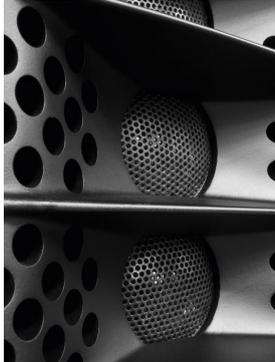


GL 24 vertical - 2D Directivity Plot

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



AMR® PRINCIPLE

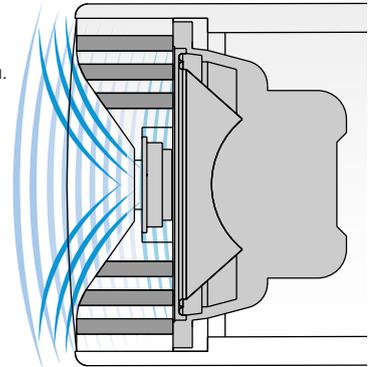


AMR® Principle.*

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

APPLICATIONS



Flying cradle.



Integrated 35 mm pole mount.



Flying bracket.



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



GL 16i dp 1000 / GL 24 dp / G Sub
For applications up to 40 m distance.



2 x GL 16i dp 1000 / GL 24 dp
For applications up to 80 m distance.

The GL 24 dp features integrated digital amplifier electronics with a DSP controller. Various factory-configured presets and volume settings can be selected.

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.

Presets

Flat
Standard setting with linear frequency response for stand-alone use.

Low (slight)
Slight reduction of low / mid range frequencies for combination with one GL 16 system.

Low (strong)
Strong reduction of low / mid range frequencies for combination with several GL 16 systems.

HP
120 Hz high pass filter for combination with subwoofers.

Level

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

Status

Mute LED
Red light when the system is muted or under technically critical conditions.

Limit LED
Yellow light when the limiter is restricting the level.

Signal LED
Green light when the input signal exceeds -20 dBu.

Power LED
Green light when the system is switched on.

XLR

Symmetrical analog input max. Input +25 dBu. Effective filter protection against HF interference and DC Voltages. Electronically balanced to prevent noise.

GL 24 dp

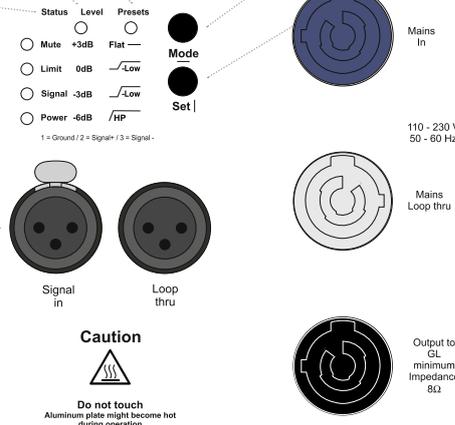
Cylindric Wave Radiator

Serial No.:

Power	2x 800 W AES biamped
Input Impedance	10 kΩ
Coverage	100° x 20°
Frequency Range	80 Hz - 20 kHz
Mains Supply	100 - 230 VAC
Weight	22kg



Made in Germany
www.seeburg.net



Mode - key

Switches between control modes Status, Level and Presets.

Set - key

Setting of various values and Mute on / off.

PowerCon (blue)

Power supply
~ 110-230 V / 16 A max.

PowerCon (grey)

~ 110-230 V / 16 A max.
loop through connector

Speakon NL4MP

Parallel output connection for a passive GL 24 system with an impedance of 8 Ω.

Flying Cradle



for one unit GL 24 or
for up to 6 units GL 16
Order No. **01354**

Flying Bracket



for GL 24
incl. accessories:
4 x M10 x 20 handle screws
Order No. **01352/GL24/set**

Handle Screw



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

Flange



balanced, 2 x M10, 35 mm Ø,
for up to 2 x GL speakers and
flying bracket
Order No. **08126/bal**

Flange



M20 x 35 mm– for flying bracket
G3, GL 16, GL 24, K 24
Order No. **08127/nut**

Connection Bar



GL 24 → GL 8c for downhill,
a pair, incl. accessories
Order No. **08159**

Doughty Trigger Clamp



for flying brackets,
SWL 200 kg
Order No. **01222**

Ring Screw



M10– DIN 580,
black zinced
Order No. **73700**

TV Spigot



10 mm internal thread,
28 mm Ø
Order No. **08128**

ACCESSORIES GL 24 dp

Wall Mount



for one single GL 16 / GL 24 /
A 2 / A 3 / L-Series
Order No. **03034**

Spacer



for wall mount (03034)
polyurea coated
Order No. **03034/spc**

Wall Mount



for U-brackets, 40 kg max., incl. screws
(M10 x 70 mm socket head screw,
M10 hex lock nut and flat washer)
for 15" speakers
Order No. **08130/F/400**

Speaker Stand



Incl. wind up, 50 kg max.,
height 129 to 204 cm, K&M
Order No. **03011**

50 kg max., K&M
Order No. **03010**

Hybrid Cable System



PowerCon-PowerCon / XLR-XLR
2,5 m Order No. **08462**
5 m Order No. **08464**
10 m Order No. **08466**
15 m Order No. **08468**

Bag



for one unit GL 24
Order No. **01233**

Rain Cover



for GL 24
Order No. **01233/outdoor**

Stretch Cover



for GL 24 / GL 24 j
Order No. **01233**

Flight Case



for 2 units GL 24 / GL 24 j,
inserts for accessories, compact size,
heavy duty version, PVC coated,
100 mm blue wheels
Order No. **16013/pro/T**

