

A Series by SHERMANN Audio

GL401^{v2}

The lightweight SHERMANN Audio GL401 is a compact three way model supplied in passive drive format.

Standard hardware includes a GS-TA3 flying track & safety tie set for use with SHERMANN Audio GS-F3 flying brackets or GS-W3 wall brackets.

Also supplied is a GSA1/35 stand mount adaptor to enable use with any good quality tripod stand or bass cabinet mounted extension pole.



The superb GL401 follows the extremely successful GX-model which is still available and in widespread use throughout the UK in theatres, churches and the audio visual community.

The GL401 maintains a high standard of speech and music clarity throughout the audio range with the added advantages of smaller size and a significant weight reduction over the original model.

A smooth, highly efficient 12" bass drive unit features a neodymium magnet assembly whilst a superb 1" neodymium compression driver offers subtle, accurate detail in the upper response band - both are British built.

Linking these two drive units is our European sourced GM17/50 6.5" midrange - this driver is used in most of our 3 way models. The GL401 offers premium performance as a Front Of House PA box and may be flown, stand mounted or stacked.

Touring the GL401

Versatility is the keyword with all SHERMANN Audioproducts and the GL401 has been designed to maximise use within a wide variety of system combinations.

This compact, lightweight multi role workhorse is supplied with two strategically placed handles to assist loading or stacking.

A fully recessed, heavy duty 35mm pole mount is supplied as standard along with a GS-TA3 flying track set for use with a GS-F3 flying bracket.

Installing the GL401

The numerous advantages of fully equipped SHERMANN Audio touring boxes are also available to the installer.

From a fully equipped instal model to a totally basic version with no handles, stand mount or flying fittings the GL401 may also be specified in a variety of painted finishes.

Our expertise in the installation market allows us to offer superb sounding systems which are highly efficient, cost-effective and fully compatible with our customer's requirements.

Technical Specifications

System

Format	3 way Passive
Network	PCN-4
Nom' impedance	8 ohms
Hi-pass filter (-3dB point)	40Hz / 4th order
Rec' amp' power @ 8 ohm	200 - 350 watts rms
Continuous Programme	500 watts
Short term peak	800 watts

Performance

Sensitivity @ 1w/1m	99 dB
Maximum output	127 dB @ 1m
Frequency response	55 Hz - 18.5 KHz
Dispersion > 0.6 KHz	70° x 40°

Drive unit - LF

Drive unit size	304 mm / 12"
Voice coil diameter	76 mm / 3"
Chassis	Cast aluminium
Magnet	Neodymium
Mounting	5mm caphead bolts x 4

Drive unit - MF

Drive unit size	165 mm / 6.5"
Voice coil diameter	38 mm / 1.5"
Chassis	cast aluminium
Magnet	Ferrite
Mounting	5mm caphead bolts x 4

Drive unit - HF

Drive unit exit	25 mm / 1"
Voice coil diameter	51 mm / 2"
Magnet	Neodymium
Diaphragm	titanium
Horn mounting	5mm c/s socket bolts x 4

Dimensions

Height	648 mm (25.50")
Depth	307 mm (12.10")
Width	367 mm (14.45")
External volume	57 lts (2.00 ft ³)
Weight	24.1 Kgs (53 lbs)

Connections

Speakon NL4
pin 1+ **hot** / pin 1- **cold**

Speakon NL4 (option) *
pin 2+ **hot** / pin 2- **cold**

*Sockets are parallel linked on all pins
eg. 1+ to 1+ (see diagram)*

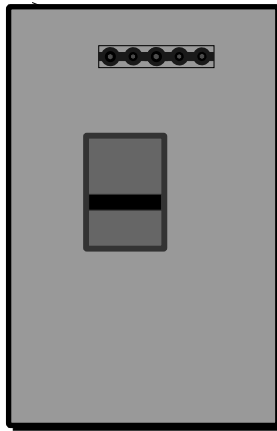
Crossover frequencies

High pass (full range mode)
45Hz 4th/8th order Linkwitz-Riley or
Butterworth filtering

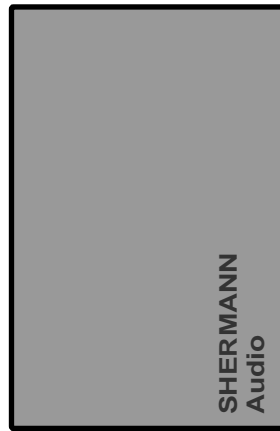
High pass (with SHERMANN Audio LF
systems)
100 - 120Hz 4th order Linkwitz-Riley

* Options must be requested at time of ordering.

GL401

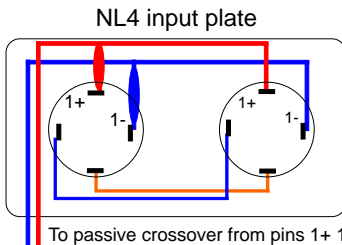


307mm

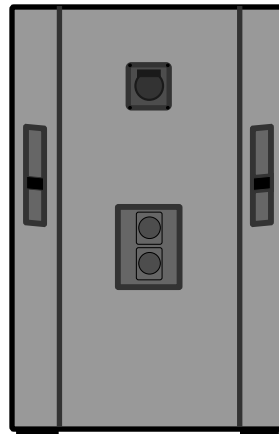


367mm

648mm



To passive crossover from pins 1+ 1-



Speaker Cables

We recommend the use of **2.5mm²** or **4mm²** OFC cabling with all SHERMANN Audio full range cabinets.

Wherever possible, cable lengths should not exceed **5 metres** for 4 ohm loading (*2 x 8ohm GL401 in parallel*); cabinet link cables should not exceed 1 metre.

Please call for details on SHERMANN Audio cables - contact info' shown below.

Please note

We would like to draw your attention to the likelihood of hearing damage from prolonged exposure to high sound pressure levels.

Care should be taken when using cabinets in close proximity to the audience, musicians or artists.

For further information on the safe operation of any SHERMANN Audio product please fax, call or email us - contact details are shown below.

The information within this data sheet is accurate and correct at the time of publication.

It is recommend that all technical information is verified with the company before inclusion in quotations or tender documents.

The company will not be held responsible for losses or difficulties arising from errors, changes or omissions.

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Exterior fittings

Handle (top)

Steel recessed steel flip type

Handles (side)

Steel recessed steel bar type

Finish

Heavy duty black carpet or optional textured paint finish - any colour *

Grille

Heavy duty welded mesh on steel frame c/w acoustically transparent foam and engraved logo.

Skids

Bottom mounted easily replaced 15mm plywood skids

Flying Points (supplied)

1) GS-TA3 top and rear mounted track

Construction

Cabinet shell

15mm multi-laminate Scandinavian birch plywood.

Baffle assembly

25mm multi-laminate Scandinavian birch plywood.

For optimum performance and system protection we recommend the use of a digital loudspeaker management unit within systems incorporating the GL401.

BSS, DBX, Klark-Teknik, and XTA offer suitable models which may be loaded with preset configurations to enable successful operation within any SHERMANN Audio system.



SHERMANN Audio

The A Series