

# LM-Series by SHERMANN Audio

## LM301

*(discontinued model - replacement parts normally in stock except 12"; recone only)*

**Shermann's LM301** is a powerful, low profile dedicated stage wedge supplied in three-way passive drive format and a non-reflective black finish.

It features an efficient 12" bass driver plus a co-axially mounted 1" HF compression driver and a 6.5" midrange unit.

With superior vocal projection qualities and advantageous high gain before feedback the LM-301 represents excellent value in a truly compact package.



The LM-Series has been designed for use in the widest possible range of applications offering very high performance in a rugged but unobtrusive package.

**Shermann's LM-301** combines a low apex height with high sonic quality making it ideal for vocal and music foldback for use in Theatres, TV Studios, Concert stages and Places of Worship.

The **LM-301** is equipped with a powerful 12" bass/mid driver which incorporates a substantial magnet assembly and 2.5" voice coil.

Midrange response is handled by **Shermann's** GM17/50 cone mid unit whilst a GS25BC1 co-axially mounted compression driver handles the high frequencies.

An advanced ferro-fluid installed within the magnetic gap of all **Shermann** compression drivers improves long-term reliability by reducing heat build-up within the voice coil assembly.

**Shermann's** LM-301 is built to the highest standards and incorporates sustainable or recyclable materials wherever possible.

High grade 15mm baltic birch plywood is utilised for the outer shell whilst the loudspeaker baffle thickness is 25mm for ultimate rigidity.

### Connections

**Speakon NL4** pin 1+ **hot** / pin 1- **cold** (2+ 2- to order)

### Crossover frequencies

**Internal:** not applicable; passive drive

**External:** 4th order 110Hz (with **Shermann** bass systems)

### Technical Specifications

#### System

Format	3 way Passive
Network	PCN-4
Nom' impedance	8 ohm
Hi-pass filter (-3dB point)	40Hz / 4th order
Rec' amp' power @ 8ohm	175 - 300 watts rms
Maximum input power	350 watts

#### Performance

Sensitivity @ 1w/1m	100 dB
Maximum output	125 dB @ 1m
Frequency response	65 Hz - 18.5 KHz
Dispersion (>2.5kHz)	70° x 70°

#### Components

Drive unit (LF/MF)	305 mm (12")
Drive unit (HF)	6.5" cone mid
Horn unit	25 mm / Co-ax

#### Dimensions

Height	362 mm (14.25")
Depth	318 mm (12.50")
Width	575 mm (22.63")
Apex height	344 mm (13.56")
External volume	58.2 lts (2.10ft <sup>3</sup> )

#### Mechanical

Connectors *	"Speakon" NL4 x
Flying points (option) *	2GS-TA3
Stand mount (option) *	GSA1/35
Handle	2 x large flip
Finish*	Black carpet

For optimum performance and system protection we recommend the use of a digital loudspeaker management unit within systems incorporating the LM301.

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

The foam front used in this cabinet is not fire retardant.



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