

# LM-Series by SHERMANN Audio

## LM501

(discontinued model - replacement parts normally in stock except 15"; recone only)

**Shermann's LM501** 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 15" 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-501 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-501** 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-501 is equipped with a powerful 15" bass/mid driver which incorporates a substantial magnet assembly and 4" voice coil.

Midrange response is handled by **Shermann's** GM17/50 cone mid unit whilst a GS25B1 compression driver / GHF-7 horn assembly 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-501 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**

### 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 W              |
| Hi-pass filter (-3dB point) | 35Hz / 4th order |
| Rec' amp' power @ 8 W       | 250 - 500 watts  |
| Maximum input power         | 600w rms         |

#### Performance

|                      |                  |
|----------------------|------------------|
| Sensitivity @ 1w/1m  | 99 dB            |
| Maximum output       | 127 dB @ 1m      |
| Frequency response   | 60 Hz - 18.5 KHz |
| Dispersion (>2.5KHz) | 40° x 70°        |

#### Components

|                 |                 |
|-----------------|-----------------|
| Drive unit (LF) | 380 mm (15")    |
| Drive unit (MF) | 6.5" cone mid   |
| Drive unit (HF) | 25 mm / CD Horn |

#### Dimensions

|                 |                                 |
|-----------------|---------------------------------|
| Height          | 438 mm (17.25")                 |
| Depth           | 343 mm (13.50")                 |
| Width           | 705 mm (27.75")                 |
| Apex height     | 378 mm (14.87")                 |
| External volume | 91.5 lts (3.2 ft <sup>3</sup> ) |
| Weight          | 34.2 Kgs (76 lbs)               |

#### Mechanical

|                                     |                   |
|-------------------------------------|-------------------|
| Connectors <sup>2</sup>             | "Speakon" NL4 x 2 |
| (Option)                            | "Speakon" NL2     |
| Flying points (option) <sup>2</sup> | n/a               |
| Stand mount (option) <sup>2</sup>   | GSA1/35           |
| Handle                              | 2 x large flip    |
| Finish <sup>2,3</sup>               | Black carpet      |

For optimum performance and system protection we recommend the use of a digital loudspeaker management unit within systems incorporating the LM3.

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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