

# LM-Series by SHERMANN Audio

## LM750

*(discontinued model - replacement parts normally available)*

**Shermann's LM-750** is a powerful, two-way low profile stage wedge supplied in switched active or passive drive format.

This compact monitor features an efficient 15" bass/mid driver and a 2" HF compression driver on a **Shermann** horn unit.

The **LM-750** features superior vocal projection qualities, advantageous high gain before feedback and a sturdy, non-reflective black finish.

Active or passive drive is safely selected by a single switch with no additional connector or wiring changes required - yet another operational benefit from the **Shermann** design team.

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

**Shermann's LM-750** combines a low apex height with high sonic quality and very high output levels making it ideal for use in Theatres, TV Studios, Cabaret, Concert stages and Rock venues.



The LM-750 is equipped with a very powerful, efficient 15" bass/mid driver which incorporates an enormous magnet assembly and 4" voice coil.

Upper midrange & HF response is handled by **Shermann's** GS50BC2 / GHF-5 compression driver / horn assembly.

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-750 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		
<b>Speakon NL4</b> (Active mode) (Active mode)	<b>Passive</b>	pin 1+ <b>hot</b> / pin 1- <b>cold</b>
	Mid/ High	pin 2+ <b>hot</b> / pin 2- <b>cold</b>
	Low	pin 1+ <b>hot</b> / pin 1- <b>cold</b>
<b>Speakon NL8</b> (Active mode) (Active mode)	<b>Passive</b>	pin 2+ <b>hot</b> / pin 2- <b>cold</b>
	Mid/ High	pin 3+ <b>hot</b> / pin 3- <b>cold</b>
	Low	pin 2+ <b>hot</b> / pin 2- <b>cold</b>
Crossover/Filter frequencies		
High Pass Filter:	4th order	35Hz
Internal:	4th order L-R slopes	1.5KHz (low to high - active mode)
External:	4th order	110Hz (with <b>Shermann</b> bass systems)
Switches		
Silver toggle:	Passive - UP position / Active - DOWN position	
Black toggle:	HF roll-off in UP position ( <i>active &amp; passive modes</i> )	

### Technical Specifications

#### System

Format	2 way Passive / Active
Network	PCN-4X
Nom' impedance	8ohm / 16ohm
Active Crossover point	1-25Khz (4th Order)
Hi-pass filter (-3dB point)	40Hz / 4th order
Rec' amp' power @ 8ohm	400-650 watts (LF) 100-200 watts (HF)
Maximum input power	750 watts (LF) 300 watts (HF)

#### Performance

Sensitivity @ 1w/1m	100 dB ( LF ) 109 dB ( HF )
Maximum output (passive)	130 dB @ 1m
Maximum output (active)	132 dB @ 1m
Frequency response	60 Hz - 17.5 KHz
Dispersion (>1.25Khz)	50° x 30°

#### Components

Drive unit (LF)	380 mm (15")
Drive unit (HF)	50mm comp' driver
Horn unit	<b>Shermann</b> GHF-5

#### Dimensions

Height	438 mm (17.25")
Depth	356 mm (14.00")
Width	629 mm (24.75")
Apex height	393 mm (15.5")
External volume	86 lts ( 3.0 ft <sup>3</sup> )
Weight	38.9 Kgs ( 87 lbs)

#### Mechanical

Connectors	"Speakon" NL4 x 2
Connectors (Option) *	Speakon NL8 x 2
Flying points (option)	GS-TA3
Stand mount (option)	GSA1/35
Handles (sides)	Large steel Flip
Finish	Black carpet

For optimum performance and system protection we recommend the use of a digital loudspeaker management unit within systems incorporating the LM750.

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

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



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