

R Series by Shermann®

R8M

New R8M due for release mid 2014

The **Shermann® R8M**, designed by Ken Hughes, is a super-compact two way model supplied in passive drive format. The smooth, extended response of the R8M may be used within a wide variety of applications including theatre, concert front fills, conference, AV, fashion shows and places of worship.

Used with Shermann LF units such as the R3B & GL5B, the **R8M** may be successfully employed in FOH systems for live PA and music playback.

Flying or installing the R8M is simplicity itself as the cabinet is equipped with nut plates to accept an optional bracket which



also facilitates stand mounting.

A 35mm internal stand mount is fitted to the R8M. Designed with two wedge angles for maximum flexibility.

The steeper 55° angle allows the R8M to be placed in close proximity to the artist whilst the 35° angle permits even coverage for a variety of onstage applications.



Scandinavian birch plywood construction

8" bass/mid driver; cast aluminium chassis, neo' magnet

1" exit compression driver c/w mylar diaphragm

Shermann PCN low-loss crossover assembly

90° x 60° constant directivity horn - may be rotated

Two input plates each equipped with 2 x NL4 connectors

Combination flying/stand mount bracket available

Twin wedge angles - 55° and 35°

Roping eye/safety tie point

Cabinet impedance 8 ohm

Works with all good quality amplifiers

Dedicated processing not required

A specially designed 8" bass/mid drive unit whose response characteristics are ideally suited for efficient operation within compact enclosures is utilised in the R8M.

A PCN3 low loss Shermann passive crossover provides a smooth transition to the 1" exit neodymium compression driver at 1.7KHz.

The 90° x 60° horn fitted to the R8M provides optimum dispersion whether the cabinet is used in horizontal mode, as an under balcony fill, a front of stage fill or as a low profile wedge monitor.

Installing or Touring the Shermann R8M

A combination stand mount / flying bracket is available which should cover most touring requirements however, this bracket may also be used with Shermann's optional wall mount arm for permanent installation.

Side M8 nut plates and a 35mm stand mount are standard fittings on this model.

The R8M is supplied as standard in our durable **Textured Protective Coating** however, **TRC** paint finish may be specified for installation requirements.

Technical Specifications

System

Format	2 way Passive
Networks	PCN3
Nom' impedance	8 ohms
Hi-pass filter (-3dB point)	50Hz / 4th order
Rec' amp power @ 8ohm	250 watts rms

Performance

Sensitivity @ 1w/1m	96 dB
O/P level at rated power	123 dB @ 1m
Frequency range	65 Hz - 18.5 KHz
Dispersion > 2 KHz **	90° x 60° (H x V)

Drive unit - LF

Drive unit size	205 mm / 8"
Voice coil diameter	51 mm / 2"
Chassis	cast aluminium
Magnet	neodymium
Mounting	5mm caphead bolts x 8

Drive unit - HF

Drive unit exit	25 mm / 1"
Voice coil diameter	44 mm / 1.73"
Magnet	ferrite
Diaphragm	mylar
Horn mounting	5mm c/s socket bolts x 4

Dimensions

Height	417 mm (16.38") *
Depth	255 mm (10.04") *
Width	255 mm (10.04") *
Apex height (55° wedge)	280 mm (11.02") *
External volume	27 lts (0.95 ft³)
Weight	9.3 Kgs (20.5lbs)

Active crossover frequencies

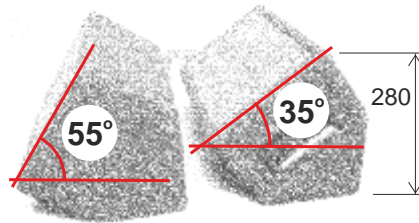
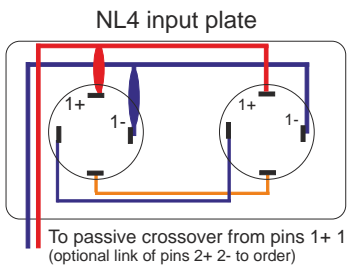
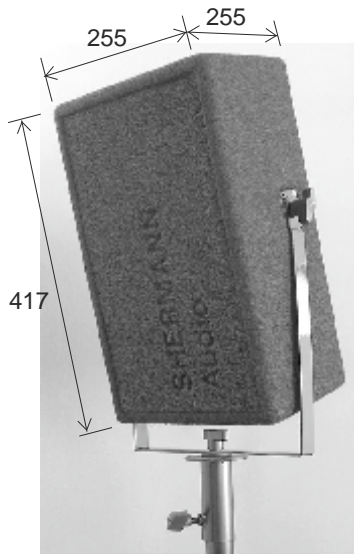
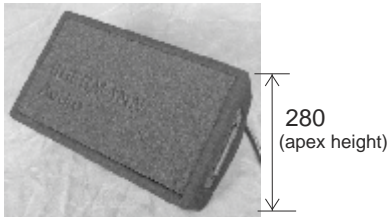
High pass (full range mode)
50Hz 4th/8th order Linkwitz-Riley
or Butterworth filtering

High pass (with Shermann LF systems)
110Hz 4th order Linkwitz-Riley

For optimum performance and protection we recommend the use of a digital loudspeaker management unit within systems incorporating the R8M.

Klark-Teknik, BSS, Alto, Ashly and XTA manufacture suitable models which may be loaded with preset configurations to operate with any Shermann system.

R8M



Speaker Cables

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

Wherever possible, cable lengths should not exceed 10 metres for 4 ohm loading (*2 x 8ohm R8M in parallel*); cabinet link cables should not exceed 5 metres.

Please call for details on Shermann 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 product please fax, call or email us - contact details are shown below.

Textured Protective Coating.

The coating currently applied to Shermann loudspeakers is an extremely hard wearing textured finish designed to protect the loudspeaker cabinet during normal use.

Damage may be caused through contact with sharp objects or if stacked against flight cases or any other item with metal fittings during transportation.

Whilst this style of coating is generally accepted as more durable than a paint finish it should be accepted that TPC is not armour plating and as such, may indeed be scratched or damaged.

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

It is recommended that all technical information is verified with the company before inclusion in quotations or tender documents as The Company will not be held responsible for losses or difficulties arising from errors, changes or omissions.

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Exterior fittings

Finish

Textured Protective Coating / black as standard; colour options)

TRC finish for install

Grille

Heavy duty mesh c/w acoustically transparent foam and engraved logo.

Skids / Feet

Option *

Fly points / Stand Mount

35mm stand mount, nut plates and safety roping eye fitted as standard. Optional combination bracket equipped with 35mm stand adaptor and flying coupler for use on 2" bar.

Construction

Cabinet shell

12mm multi-laminate Scandinavian birch plywood.

Baffle assembly

18mm multi-laminate Scandinavian birch plywood.

Connections

2 plates each equipped with 2 x NL4 connectors all parallel linked

Speakon NL4

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

* Options must be requested at time of ordering.

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

The front foam used on this cabinet is not fire retardent.



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