

R Series *by Shermann®*

R2M

The **Shermann® R2M**, designed by Ken Hughes, is a super-compact two way model supplied in passive drive format.

The smooth, responsive R2M may be used within a wide variety of applications including Theatre, Conference, AV and Places of Worship.

Used with Shermann LF units, the **R2M** may be successfully employed in FOH systems for music playback and live PA.

Flying or installing the R2M is simplicity itself as the cabinet is equipped with nut plates to accept the dedicated bracket which also facilitates stand mounting.

Designed with two wedge angles for maximum flexibility.

The steeper 55° angle allows the R2M 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
6.5" bass/mid driver; cast aluminium chassis
1" exit neodymium compression driver
Shermann PCN low-loss crossover assembly
Rotatable 90° x 60° horn
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 16 ohm
Works with all good quality amplifiers
Dedicated processing not required



A specially designed 6.5" bass/mid drive unit whose response characteristics are ideally suited for efficient operation within compact enclosures is utilised in the R2M.

A PCN3 low loss Shermann passive crossover provides a smooth transition to the 1" exit neodymium compression driver at 1.8KHz.

The 90° x 60° horn fitted to the R2M may be easily rotated through 90° whenever the cabinet is used in horizontal mode, as an under balcony fill, a front of stage fill or even as a low profile wedge monitor.

Installing or Touring the Shermann R2M

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 are standard fittings on this model.

The R2M 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 | 16 ohms |
| Hi-pass filter (-3dB point) | 70Hz / 4th order |
| Rec' amp power @ 16ohm | 100 - 150 watts rms |
| Continuous Programme | 250 watts |
| Short term peak | 500 watts |

Performance

| | |
|--------------------------|-------------------|
| Sensitivity @ 1w/1m | 93 dB |
| O/P level at rated power | 120 dB @ 1m |
| Frequency range | 85 Hz - 19.5 KHz |
| Dispersion > 2 KHz ** | 90° x 60° (H x V) |

Drive unit - LF

| | |
|---------------------|-----------------------|
| 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 | 44 mm / 1.73" |
| Magnet | neodymium |
| Diaphragm | titanium |
| Horn mounting | 5mm c/s socket bolts x 4 |

Dimensions

| | |
|-------------------------|-------------------|
| Height | 342 mm (13.44") |
| Depth | 238 mm (9.30") |
| Width | 210 mm (8.25") |
| Apex height (55° wedge) | 242 mm (9.50") |
| External volume | 17 lts (0.61 ft³) |
| Weight | 7.6 Kgs (17 lbs) |

Crossover frequencies

High pass (full range mode)
60Hz 4th/8th order Linkwitz-Riley
or Butterworth filtering

High pass (with Shermann LF systems)
115Hz 4th order Linkwitz-Riley

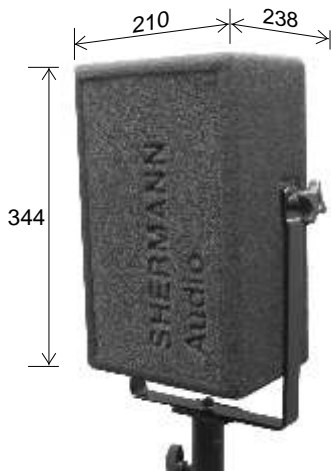
* Options must be requested at time of ordering.

** Horn unit may be rotated through 90°.

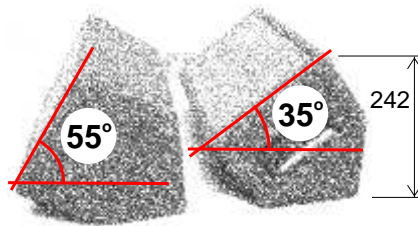
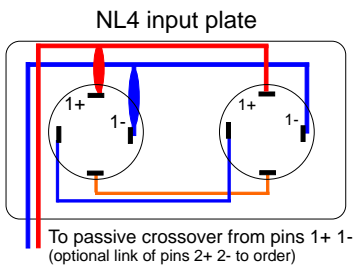
For optimum performance and protection we recommend the use of a digital loudspeaker management unit within systems incorporating the R2M.

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

R2M



R2M models shown on this page in our old carpet finish which is no longer available.



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 (4 x 16ohm R2M 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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Fax: +44 (0)1686 623 233 / Web: www.shermann.com

Exterior fittings

Finish

Textured Protective Coating / black as standard; colour options.

TRC for install

Grille

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

Skids / Feet

Option

Fly points / Stand Mount

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

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**

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

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



Shermann

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