

# R Series *by ShermannAudio*

## R3W

The **Shermann R3W** designed by Ken Hughes is a lightweight, low profile three way stage wedge supplied in passive drive format.

With a low apex height of just 405mm the R3W may be used in a wide variety of demanding applications including theatres and TV studios where sight line problems are often experienced.

The addition of a GS-TA3 flying track set allows this superb model operate as a FOH box in low ceiling areas using Shermann flying brackets.



Whilst the R3W was primarily designed as a low profile stage wedge it's smooth, peak free response makes this model suitable for use in flown or stacked systems.

The R3W maintains a high standard of speech and music clarity throughout the audio range with the added advantages of smaller size and a significant weight reduction over comparable models..

A lightweight, responsive, highly efficient 15" bass drive unit features a neodymium magnet assembly and 4" voice coil whilst an efficient 1" compression driver offers subtle, accurate detail in the upper response band - both are British built.

Linking these two drive units is the Shermann European sourced, high power GM17/50, 6.5" midrange.

### Touring the R3W

Versatility is the keyword with all Shermann products and the R3W has been designed to maximise use within a wide variety of system combinations.

This compact, lightweight multi role workhorse is supplied with two strategically placed handles to assist loading or stacking.

A GS-TA3 flying track set allows the R3W to be suspended from trussing using a GS-RF3 flying bracket.

### Installing the R3w

The numerous advantages of fully equipped Shermann touring boxes are also available to the installer.

From a fully fitted instal model to a totally basic version with no handles, stand mount or flying fittings the R3w may also be specified in a variety of painted finishes.

The designer's expertise in the installation market allows Shermann to offer superb sounding systems which are highly efficient, cost-effective and fully compatible with our customer's requirements.

### Technical Specifications

#### System

Format	3 way Passive
Network	PCN-4
Nom' impedance	8 ohms
Hi-pass filter (-3dB point)	40Hz / 4th order
Rec' amp' power @ 8 ohm	300 - 550 watts rms
Continuous Programme	750 watts
Short term peak	1000 watts

#### Performance

Sensitivity @ 1w/1m	99 dB
Maximum output	127 dB @ 1m
Frequency response	55 Hz - 18.5 KHz
Dispersion > .5 KHz	80° x 60°

#### Drive unit - LF

Drive unit size	387 mm / 15"
Voice coil diameter	101 mm / 4"
Chassis	cast aluminium
Magnet	Neodymium
Mounting	6mm caphead bolts x 6

#### Drive unit - MF

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	51 mm / 2"
Magnet	Neodymium
Diaphragm	titanium
Horn mounting	5mm c/s socket bolts x 4

#### Dimensions

Height	451 mm (17.75")
Depth	362 mm (14.25")
Width	606 mm (23.88")
External volume	87 lts ( 3.07 ft <sup>3</sup> )
Weight	35.9 Kgs ( 79 lbs)
Apex height	405 mm (15.96")

#### Crossover frequencies

High pass (full range mode)  
40Hz 4th/8th order Linkwitz-Riley  
or Butterworth filtering

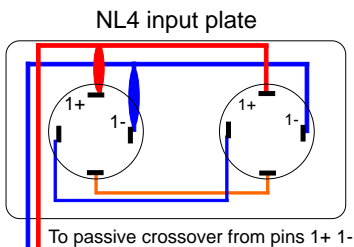
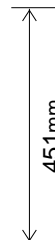
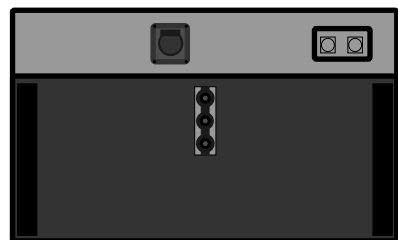
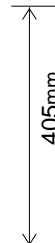
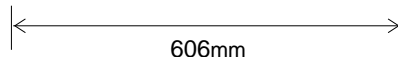
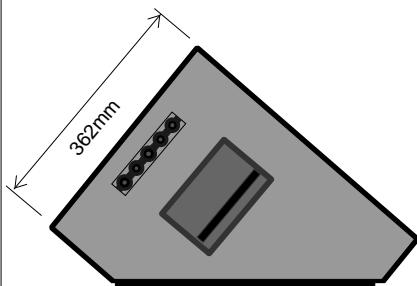
High pass (with Shermann LF systems)  
100 - 120Hz 4th order Linkwitz-Riley

\* Options must be requested at time of ordering.

For optimum performance and protection we recommend the use of a digital loudspeaker management unit within systems incorporating the R3w.

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

## R3w



### Speaker Cables

We recommend the use of **2.5mm<sup>2</sup>** or **4mm<sup>2</sup>** OFC cabling with all Shermann full range cabinets.

Wherever possible, cable lengths should not exceed 10 metres for 4 ohm loading (2 x 8ohm R3w in parallel); cabinet link cables should not exceed 2 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.

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.

The company will not be held responsible for losses or difficulties arising from errors, changes or omissions.

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### Exterior fittings

#### Handle (sides)

Large steel recessed steel flip type

#### Finish

Heavy duty black carpet or optional textured paint finish - any colour \*

#### Grille

Heavy duty welded mesh on steel frame c/w acoustically transparent foam and engraved logo.

#### Skids

Bottom mounted easily replaced 15mm plywood skids

#### Flying Points (supplied)

GS-TA3 side and rear mounted track

### Construction

#### Cabinet shell

15mm multi-laminate Scandinavian birch plywood.

#### Baffle assembly

25mm multi-laminate Scandinavian birch plywood.

### Connections

#### Speakon NL4

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

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



**ShermannAudio**

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