

The G15 - super compact, lightweight and very loud.

The **Shermann** G15 is housed in a newly designed cabinet which does have similarities to the recently introduced G5.

G15 technology sees the use of two neodymium magnet structures housing three independent voice coils in a truly triaxial driver.

Each section in the G15 driver handles its own dedicated frequency bands with the Mid and HF sections exiting through a common horn assembly centrally mounted in the 15" driver.

Compact, lightweight and versatile are the requirements fulfilled by this superb Sherman cabinet.

For use in theatre touring systems, installed in theatres, larger churches and for outdoor events the G15 offers the owner or hirer a wide world of high quality sonic opportunities.

Return to the simple ways of successfully using a high technology G15 with the Sherman GS28 dual 18" sub per side.

This easily transported and rapidly rigged four cabinet system powered by any high quality three channel amplifier system per side offers substantial level with precise vocal and instrumental performance .

The 15" LF section.

The 15" driver is equipped with a 101mm voice coil operating within a powerful neodymium magnet structure housed in a cast aluminium chassis .

Eight mounting bolts secure the drive unit to the baffle board

The Mid section.

A 90mm voice coil drives a composite diaphragm for frequencies between 875Hz and 6.2Khz.

The midrange exits the driver from a dedicated horn assembly projecting through the centre of the 15" drive unit.

The HF section.

In the HF drive section the 44mm voice coil shares the neodymium magnet assembly with the midrange and operates above 6.2KHZ.

Perfectly time aligned the Mid and HF sections combine to provide a seamless response above 875Hz.

The G15 cabinet.

Built from Eastern European birch ply the G15 will produce exceptional quality sound for concerts and gigs in a wide variety of venues.

The G15 is equipped with GSTA2 flying track whilst a fitted K&M 35mm stand mount allows the G15 to be stand or pole mounted.

Two insert handles are fitted at the rear of the cabinet allowing quick and simple handling of this lightweight unit.

The heavy-duty mesh grille is securely supported on sturdy rubber retainers to avoid any possibility of vibration during performances.

The gigging version of the G15 is coated with a dense, heavy duty textured material we've named TPC.

This coating is extremely durable and it's been proved that TPC retains its ability to protect the cabinet far longer than conventional paint finishes.

The results.

The G15 is a high technology point source loudspeaker that's a pleasure to use and a greater pleasure to perform through.

The G15 is compact, durable and lightweight.

With or without subs the G15 allows the engineer greater freedom of set-up whilst it's crystal clear response allows audiences to hear every sonic detail, precisely and accurately.

The technicals.

Please see page 2 for mechanical and technical details.

Warning.

It should be remembered that the G15 is capable of high pressure levels therefore care should be taken in their positioning with regard to your audience or artists.

No responsibility will be accepted by the manufacturers, distributors or sellers for the incorrect or foolish use of **Shermann** loudspeaker systems.



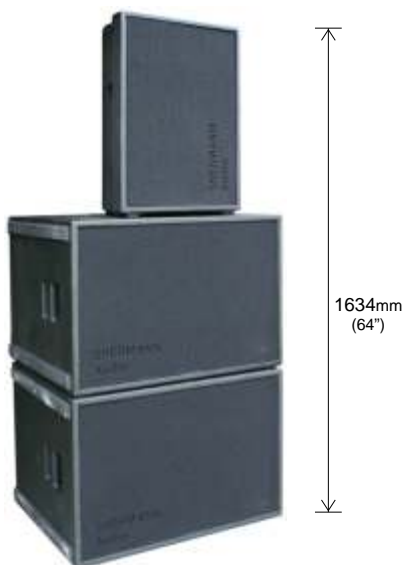
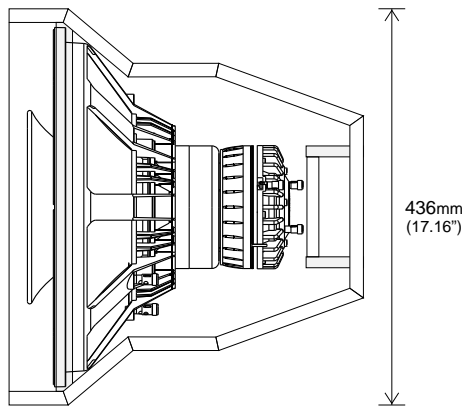
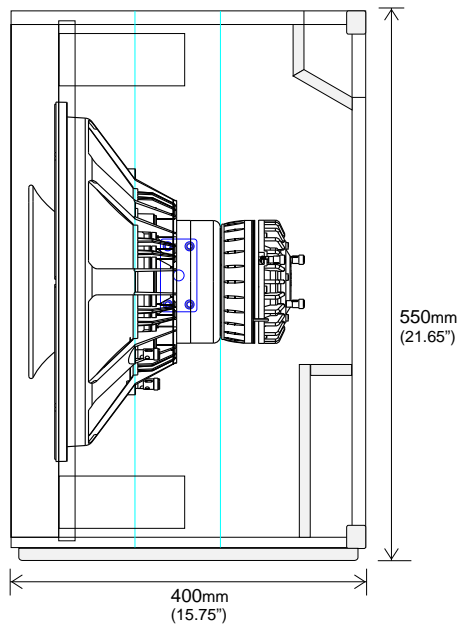
Shermann G15



G15 driver



G15 - grille removed



Built by S.P.A. Systems Ltd
 tel 1: 0845 644 2209
 tel 2: 01686 622 997
 fax: 01686 623 233
 email: info@shermann.com
 web: www.shermann.com

Shermann is a brand name used with the permission of the owners by S.P.A. Systems Ltd.
 Sherman is a trade mark used with the permission of the owners by S.P.A. Systems Ltd.
 Designs and copyright Blue Acoustic, 2009.
 G15 design used by Shermann with permission.
 All rights reserved.

System

Format	3 way bi-amplified
Crossover networks	PCN3 filtering
Nom' impedance	8 ohms LF / 8 ohms Mid/Hi
Hi-pass filter (-3dB)	60Hz / 4th/8th order
Hi-pass with sub	110Hz / 4th order LR
X/over between sections	875Hz / 4th order LR
Power @ 8ohm (AES)	1000w LF / 200w Mid/Hi

Performance

Sensitivity @ 1w/1m	99dB LF / 109dB Mid-Hi
O/P level at rated power	131dB @ 1m (111dB @ 10m)
Frequency range	68 Hz - 19.5 KHz (± 3dB)
Dispersion above 875Hz	60°

Drive unit - LF

Drive unit size	164 mm / 15"
Voice coil diameter	101 mm / 4"
Chassis	cast aluminium
Magnet	neodymium
Mounting	5mm caphead bolts x 8

Drive unit - Mid

Drive unit exit	35 mm / 1.4"
Voice coil	90 mm / 3.5"
Magnet	neodymium
Diaphragm	composite
Horn mounting	part of LF structure

Drive unit - HF

Drive unit exit	35 mm / 1.4"
Voice coil	44 mm / 1.75"
Magnet	neodymium
Diaphragm	composite
Horn mounting	part of LF structure

Dimensions

Height	565 mm - 22.25"
Depth	436 mm - 17.15"
Width	400 mm - 15.75"
External volume	98.25 lts - 3.47 ft ³
Weight	21.9 Kgs - 48.25bs

Cabinet

Panels	15 mm birch ply
Baffle	24 mm birch ply
Cabinet external	Textured Protective Coating
Handles	Top and bottom insert
Grille	Coated steel mesh
Skids	15mm plywood

Connections

Inputs (standard)	NLT4MP x 2
connection - 15" driver	Pins 1+ 1-
connection - Mid/Hi	Pins 2+ 2-
Inputs (option)	NL8MPR x 2
connection - 15" driver	Pins 2+ 2-
connection - Mid/Hi	Pins 3+ 3-

Flying & stand mount hardware

Stand mounts - fitted	35mm K&M
Flying points - fitted	GSTA2 track
Flying points - option	10mm side nutplates

* Please Note - digital crossover settings are available for Ashly, XTA, BSS, Klark-Teknik and Xilica models.
 The front foam used on this cabinet is not fire retardant.

Shermann G15 lightweight 3 way FOH box - v - 4 box mini line-array

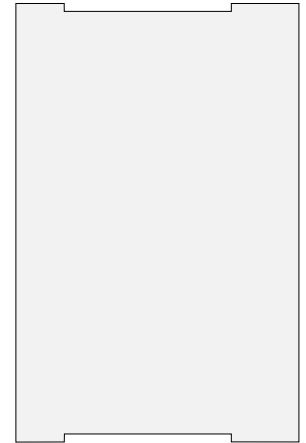


Front face area (excl' flying hardware);

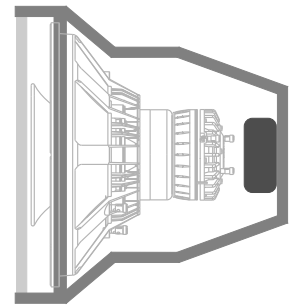
4 box line array 0.60sq m / 6.54 sq ft
Shermann G15 0.24sq m / 2.58 sq ft

Foot print (shown right);

4 box line array 0.25sq m / 2.66 sq ft
Shermann G15 0.17sq m / 1.87 sq ft



Top of line array box



Top of Sherman G15

Cabinets shown to scale.

Cabinet
 Number of cabinets per side
 Total weight excl' external flying hardware
 Nominal sound pressure level @ 1m / 5m / 10m
 Transport size excl' flight cases
 Horizontal dispersion (-6dB)
 Vertical dispersion (-6dB)
 Power requirement AES (LF)
 Power requirement AES (Mid/HF)
 Ability to link further cabs to amp channels
 Pole mountable
 Stacked height on subs
 Approx pole mount rigging time
 Approx' flying time
 Approx' connection time
 Flying tilt upwards
 Flying tilt downwards
 Flying rotation
 Use in theatre with raked seating >600 capacity
 Use in many multi-purpose venues - flat floor
 Use outdoors
 Overall vocal delivery
 Lower instrument response
 Upper instrument response

2 x 8" + HF line array
4
114kgs
131B / 117dB / 111dB
9.12 cu ft / 258 lts
100°
24°
1,600w @ 3ohm
300w @ 3ohm
No
Not offered
1,775mm (69.85")
N/A
8 minutes
2 minutes
Parameter not offered
Parameter not offered
Parameter not offered
Reflection off side walls - limited vertical dispersion
Reflection off side walls - reduced vocal definition
OK - but not easily flown without truss frame
Average (midrange driver is a relatively slow 8")
Reduced (due to the use of 1 x 8" driver per cab)
Not perfect (response speed difference between 8" & 1")

Shermann G15 (with triaxial 15" driver)
1
22kgs
131dB / 117dB / 111dB
3.47 cu ft / 98 lts
60°
60°
1,000w @ 8ohm
200w @ 8ohm
One cab (increases output to 114dB@10m)
Yes (K&M 35mm stand adaptor)
2,860mm (112.2") using K&M distance rod
30 seconds
1.5 minutes
20 seconds
20°
70°
360°
Ideal (superior vertical dispersion)
Ideal (narrower horizontal dispersion)
Ideal (light enough to sit safely on pole)
Superb wide band vocal delivery
15" driver offers a warmer response
Fast transient delivery (800Hz - 18.5KHz)

Conclusion

Whilst 4 box line arrays have fashionable advantages in the final analysis they can use 2-6 times the shipping space, be 5-1 times heavier and over 3-6 times more expensive than our compact, point source Sherman G15.

When you consider their limitations of use, mini line arrays are a very efficient waste of money for the majority of UK gigs.

The line array supporters club will argue that the Sherman G15 cannot be used in all situations however, it's our argument that the G15 will produce superior results far more often throughout a year for UK gigs and tours than a line array system as shown.

Apart from the G15 being far more versatile there is another equally important argument - sound quality.

Shermann's G15 is simply streets ahead of most mini line arrays in two very important areas - clarity and coverage.