

The Shermann G9

Ease of use in theatres, pubs, churches, village halls, for school plays, at college gigs and at even outdoor events the bi-amped G9 brings the words *successful* and *impressive* back in to professional audio.

Very low distortion in the all important mid/high section above 800Hz due to the use of a highly efficient coaxial compression driver.

Lightweight as the G9 uses neo components throughout.

Go back to using four main boxes for full range response with audiences of 100 - 750 people with perhaps a V8 per side for front row fill.

Two G9 with two R28V (or 4xGS18C) is rigged in a few minutes and the excellent results will be both successful and impressive.

The G9 is more than a multi-use workhorse model, it's a real audio beast with the strongest of pedigrees.

The 12" bass/mid.

The G9 is equipped with two powerful, highly efficient 12" bass/mid drivers.

These feature lightweight neodymium magnet assemblies, 3" copper voice coils, medium weight cones and cast aluminium chassis.

Operating these 12" drivers in their most efficient frequency bandwidth of 70 - 800hz the G9 is ideal for use either as a solo cabinet per side or in multiples - dependant of course on programme material.

The 2" coaxial upper mid/hf.

The G9 features a low distortion co-axial compression driver whose dual voice coils each handle specific frequency bands.

Operating from 800Hz the larger voice coil is then crossed at 6.5Khz to a smaller coil which handles all of the very high frequencies above.

This outstanding compression driver may be attached to three different composite horns to fer five different dispersion modes.

Please see the technical specifications on page 2.

The G9 cabinet.

Built from Eastern European birch plywood the G9 is shaped in a very different fashion to most conventional cabinets.

With three panels on each side the resulting two cabinet baffle to baffle angle when two cabs are placed together is either 30° or 40° making the use of two three or even four cabs wide a successful option especially within wider than deep rooms.

For flying purposes the G9 is equipped with three point track.

Four large insert handles are fitted to the two sides whilst top and bottom handles are also fitted.

A 35mm K&M stand mount is fitted as are plywood skids.

Finally, the giging version of the G9 is coated with a dense, heavy duty textured material we've named S-Coat.

The coating is extremely durable and it's been proved that S-Coat retains its ability to protect the cabinet much longer than conventional paint finishes.

The results.

The G9 is a high technology loudspeaker that's easier to use than almost any other loudspeaker system - and far more versatile.

The required DSP settings are minimal in fact, the G9 may be used with a completely flat crossover provided the filter points are correctly set.

These settings are easily obtainable from the factory.

The technicals.

Please see page 2 for mechanical and technical details.

Warning.

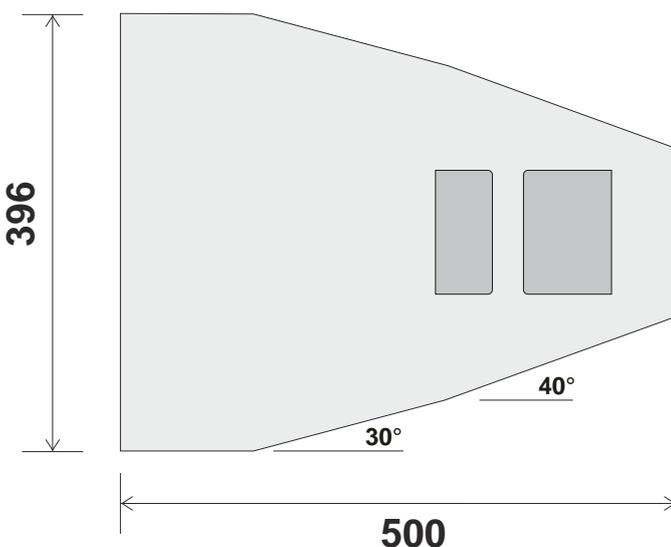
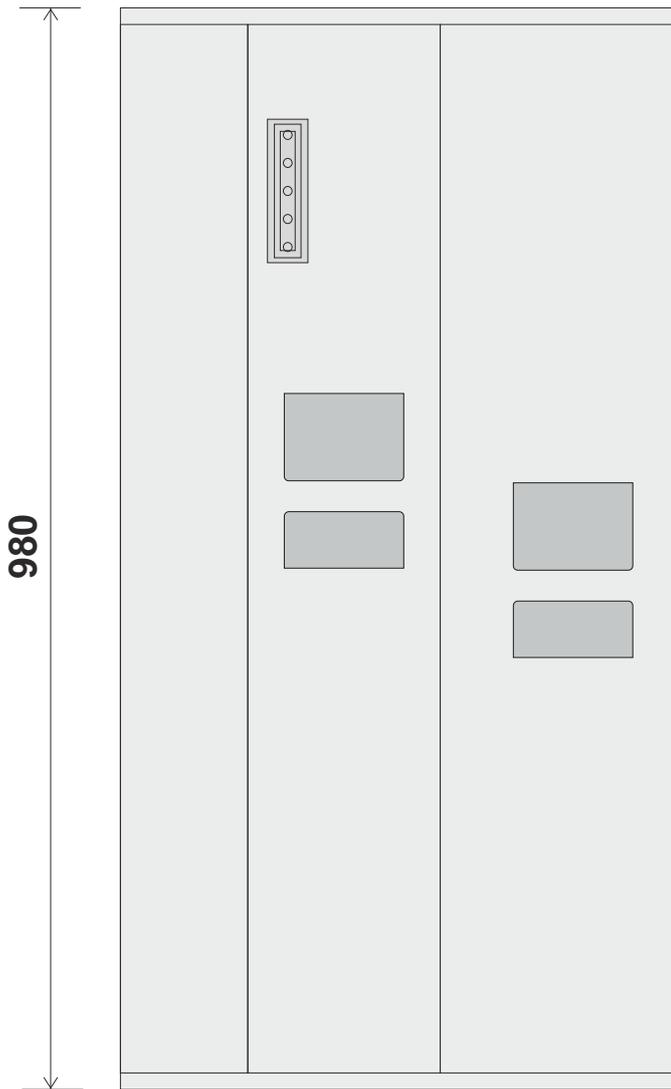
It should be remembered that the G9 is capable of high pressure levels therefore care should be taken in their positioning with regard to your audience.

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



G9





System

Format	3 way (bi-amped drive)
Passive Networks	PCN3i
Nom' impedance	4 ohms LF / 8 ohms HF
Hi-pass filter (full range)	50Hz / 4th/8th order
Hi-pass filter (with sub)	110Hz / 4th order L/R
Power LF	1400w @ 4 ohm
Power Mid/HFm	150w @ 8 ohm

Performance

Sensitivity @ 1w/1m	102dB 1w / 1m
O/P level at rated power	134 dB @ 1m
Frequency range	65 Hz - 19 KHz (\pm 3dB)
Dispersion - horn 1	40° x 30° / 30° x 40° (H x V)
Dispersion - horn 2	60° x 40° / 40° x 60° (H x V)
Dispersion - horn 3	90° x 40° (H x V)

Drive unit - LF

Drive unit size	305 mm / 12"
Voice coil diameter	76 mm / 3"
Chassis	cast aluminium
Magnet	neodymium
Mounting	6mm caphead bolts x 4

Drive unit - Mid/HF

Drive unit exit	51 mm / 2"
Voice coil (Mid)	89 mm / 3.5"
Voice coil (HF)	44 mm / 1.73"
Magnet	neodymium
Diaphragm (Mid)	composite
Diaphragm (HF)	composite
Horn mounting	6mm c/s socket bolts x 8

Dimensions

Height	996 mm - 39.21"
Depth	500 mm - 19.68"
Width	396 mm - 15.59"
External volume	180 lts - 6.36 ft ³
Weight	39 Kgs - 86lbs

Cabinet

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

Connections (NL8 to order)

Connector	NL4 x 2 (pins linked)
Input - LF	Pins 1+ 1-
Input - Mid/Hi	Pins 2+ 2-

Flying & stand mount hardware

Stand mounts - fitted	35mm K&M
Flying points - option	GS-TA3
Safety tie - with track	GS track

Recommended crossover points *

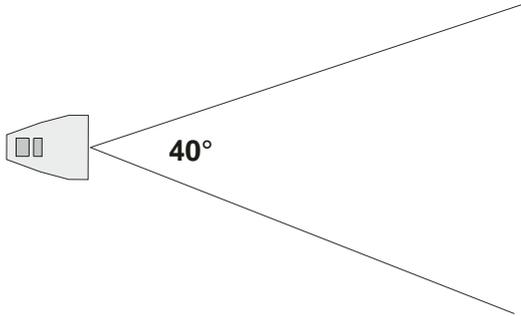
High pass filter - full range	50Hz - 4th order B'worth
High pass filter - with LF	110Hz - 4th order L/R

* 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.

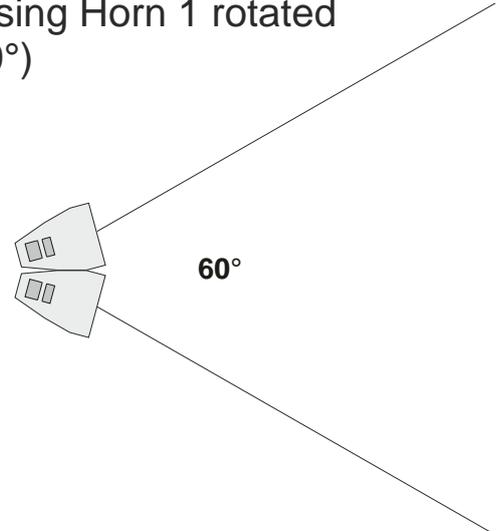
Built by Sherman Manufacturing Ltd
tel: Newtown 01 686 622368
tel: Glasgow 0141 766 0006
Mob: 07871 882663
email: info@shermann.com
web: www.shermann.com

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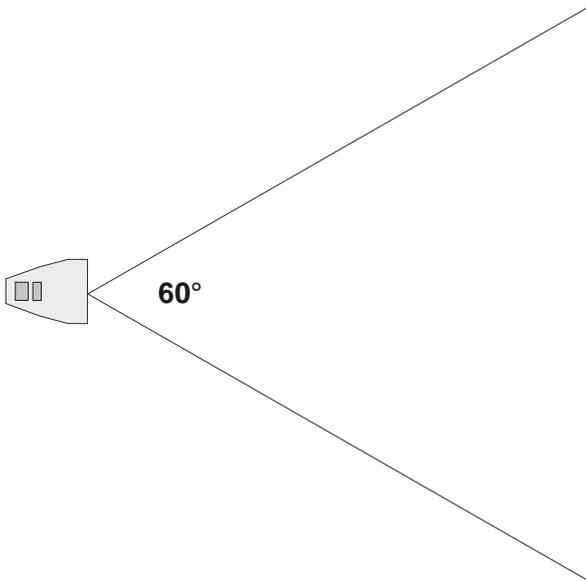
G9 using Horn 1 (40° x 30°)



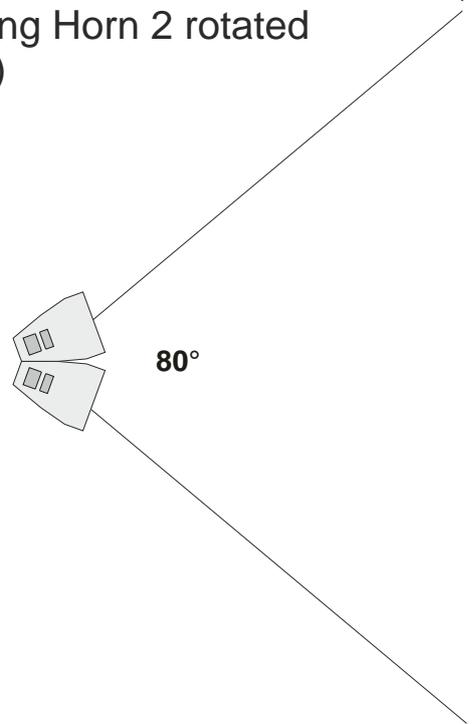
2 x G9 using Horn 1 rotated (60° x 40°)



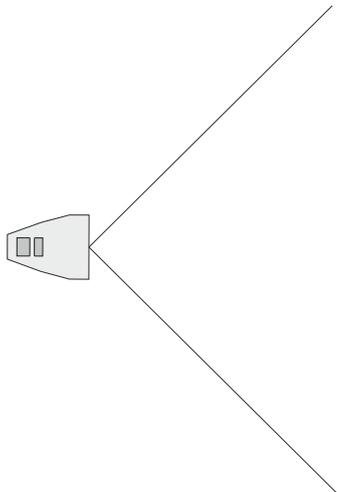
G9 using Horn 2 (60° x 40°)



2 x G9 using Horn 2 rotated (80° x 60°)



G9 using Horn 3 (90° x 40°)



It should be remembered that horn dispersion is not a thoroughly defined art and variations do occur.

Horn dispersion is generally perceived as the operational -6dB point although other factors such as wall reflections and, when used outdoors, the strength and direction of the wind will all tend to alter many parameters.

We feel that the accuracy of dispersion and as a consequence, the overall vocal and instrumental capability of Shermann G Series models is regarded as superior to possibly all competitive products.

Shermann G9 medium weight 3 way front of house box - v - 4 box mini line-array



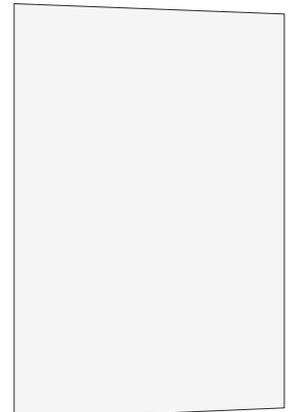
Front face area;

4 box line array 0.60sq m / 6.50 sq ft
Shermann G9 0.39sq m / 4.17 sq ft

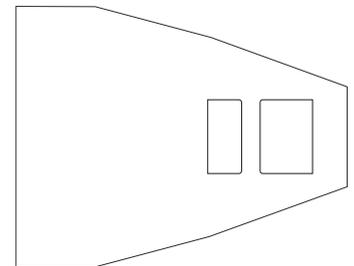


Foot print

4 box line array 0.25sq m / 2.66 sq ft
Shermann G9 0.198sq m / 2.11 sq ft



Top of line array box



Top of Sherman G9

Cabinets shown to scale.

Cabinet

Number of cabinets
Total weight excl' external flying hardware
Nominal sound pressure level @ 1m / 5m / 10m
Transport size excl' flight cases
Horizontal dispersion above 800Hz (-6dB)
Vertical dispersion above 800Hz (-6dB)
Optional dispersion
Power requirement AES (LF)
Power requirement AES (Mid/HF)
Pole mountable
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
130B / 116dB / 110dB
9.66cu ft / 273 lts
100° (note: more likely from 1.8KHz upwards)
24° (note: more likely from 1.8KHz upwards)
Not available
1,100w @ 4ohm x 2
160w @ 4ohm x 2
Not offered
N/A
7 minutes
1.5 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 G9 (with coaxial comp' driver)

1
39kgs
134dB / 120dB / 114dB
6.36cu ft / 180 lts
30°, 40°, 60° & 90° (options)
30°, 40°, 60° (options)
90° x 40°
1400w @ 8ohm
150w @ 8ohm
Yes (simple K&M pole mount or stand)
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 response
12" drivers offer superior response
Fast transient delivery (800Hz - 3.5KHz)

Conclusion

Whilst this 4 box line array has fashionable advantages, in the final analysis it's over 1.5 times larger, 2.9 times heavier and 3.7 times more expensive than the compact, point source Sherman G9

When you consider its limitations of use the line array is a very efficient waste of money for the majority of UK gigs.

The line array supporters club will argue that the Sherman G9 cannot be used in all situations however, it's our argument that the G9 will produce superior results far more often throughout the year for UK gigs and tours than the line array system as shown.

There is another equally important argument - sound quality.

The Sherman G9 is simply streets ahead of the line array in two of the more important areas - sound quality and defined coverage.