

## The Shermann G5

Ease of use in theatres, pubs, churches, village halls, for school plays, at college gigs or even outdoors the bi-amped G5 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 G5 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 G5 with two GS28 (or 4 x GS18C) is rigged in a few minutes and the excellent results will be both successful and impressive.

The G5 is more than a multi-use workhorse model, it's a real audio beast with the strongest of pedigrees.

The 15" bass/mid.

The G5 is equipped with a powerful, highly efficient 15" bass/mid driver.

It features a lightweight neodymium magnet assembly, 3" copper voice coil, medium weight cone and a cast aluminium chassis.

Using this 15" driver at its most efficient in the frequency bandwidth of 70 - 800hz the G5 is ideal for use either as a solo cabinet or with single or dual 18" bass systems - dependant of course on programme material.

The 2" coaxial upper mid/hf.

The G5 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 is attached to an aluminium horn whose dispersion pattern is a nominal 60° x 40°.

The horn may be rotated to offer a 40° x 60° pattern as a result, two or more G5 cabs may be placed side by side as each cab has sides built to 20° making wide rooms very easy to cover.

The G5 cabinet.

Built from Eastern European birch plywood the G5 is shaped in a very different fashion to most conventional cabinets.

With four panels on each side the resulting two cabinet baffle to baffle angle when two cabs are placed together is 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 G5 is equipped with three point track and may also be fitted with M10 inserts to enable use with its dedicated yoke bracket.

Two large insert handles are fitted the lower of which contains the deep recessed dual NL4 input plate.

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

Finally, the gigging version of the G5 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 G5 is a high technology loudspeaker that's easier to use than almost any other loudspeaker system.

The required DSP settings are minimal in fact, the G5 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.

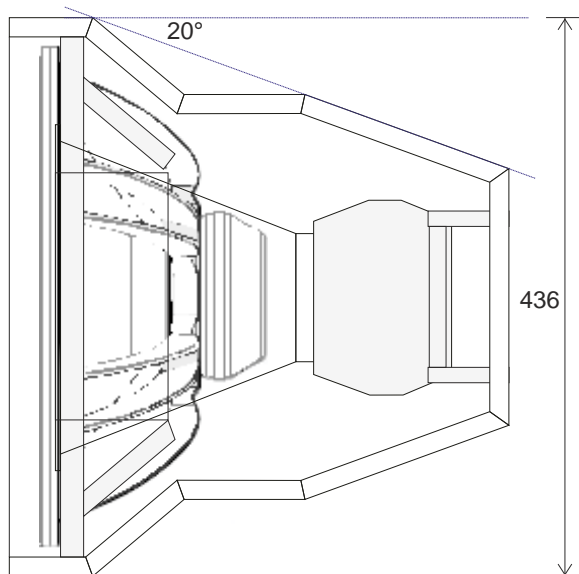
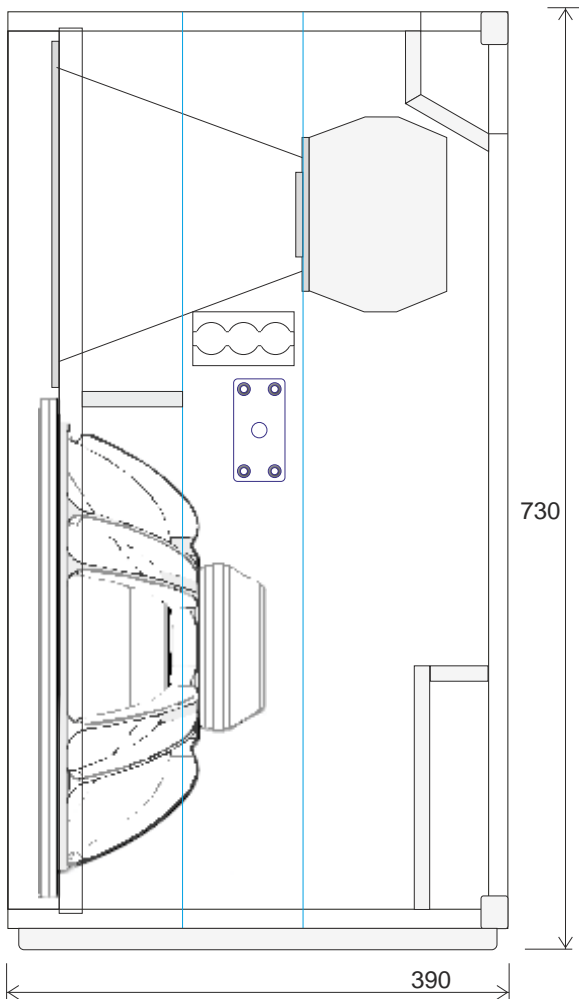
It should be remembered that the G5 is capable of high pressure levels therefore care should be taken in their positioning with regard to your audience.

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



# G5





## System

Format	3 way (bi-amped drive)
Passive Networks	PCN3
Nom' impedance	8 / 16 ohms
Hi-pass filter (full range)	50Hz / 4th/8th order
Hi-pass filter (with sub)	110Hz / 4th order L/R
Cab power @ 8ohm	700w / 150w aes

## Performance

Sensitivity @ 1w/1m	99dB 1w / 1m
O/P level at rated power	130 dB @ 1m
Frequency range	65 Hz - 19 KHz (± 3dB)
Dispersion above 850 Hz	60° x 40° (H x V)
Optional dispersion	40° x 60° (H x V)

## Drive unit - LF

Drive unit size	380 mm / 15"
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	730 mm - 28.74"
Depth	390 mm - 15.35"
Width	436 mm - 17.16"
External volume	128 lts - 4.31 ft <sup>3</sup>
Weight	29.1 Kgs - 64.3lbs

## Cabinet

Panels	15 mm birch ply
Baffle	18 mm birch ply
Cabinet external	Textured Protective Coating
Handles	Top and bottom insert
Grille	Coated steel mesh
Skids	15mm plywood

## Connections

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 - fitted	GS-TA3
Safety tie - fitted	GS track
Yoke bracket fittings - opt'	10mm nut plates

## Recommended crossover points \*

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

Built by S.P.A. Systems Ltd  
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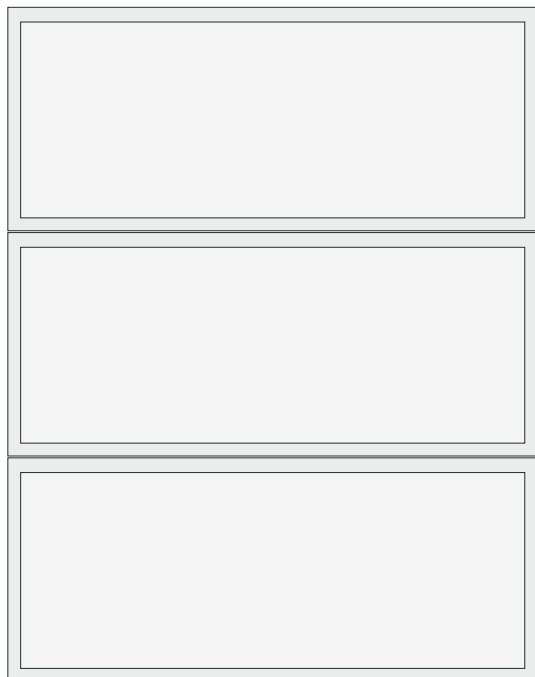
Shermann is a brand name used with the permission of the owners by S.P.A. Systems Ltd.  
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\* Please Note - digital crossover settings are available for Ashly, XTA, BSS, Klark-Teknik and Xilica models.  
 The front foam used on this cabinet is not fire retardant.

# Shermann G5 medium weight 3 way front of house box - V - 3 box mini line-array

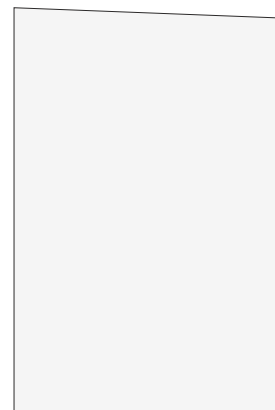
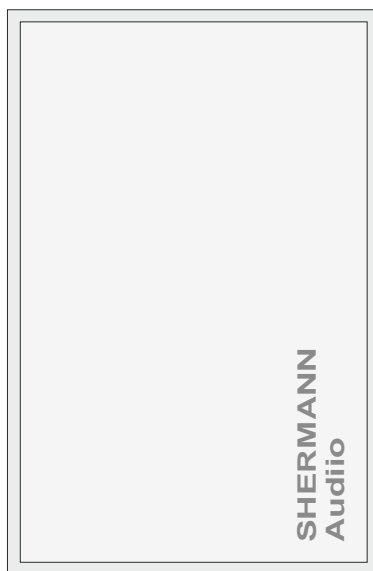
Front face area;

3 box line array 0.45sq m / 4.90 sq ft  
Shermann G5 0.32sq m / 3.40 sq ft

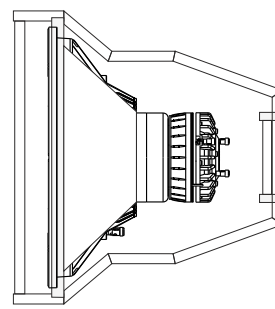


Foot print (shown right)

3 box line array 0.25sq m / 2.66 sq ft  
Shermann G5 0.17sq m / 1.87 sq ft



Top of line array box



Top of Sherman G5x

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)  
Ability to link further cabs to amp channels  
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**  
**3**  
**86kgs**  
**128B / 114dB / 108dB**  
**6.85cu ft / 194 lts**  
**100°** (note: more likely from 1.8KHz upwards)  
**18°** (note: more likely from 1.8KHz upwards)  
**Not available**  
**1,600w @ 3ohm**  
**240w @ 3ohm**  
**One cab'** (increases output to 110dB@10m)  
**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 G5** (with coaxial comp' driver)  
**1**  
**29kgs**  
**130dB / 116dB / 110dB**  
**4.31cu ft / 128 lts**  
**60°** (optional 40° using same horn)  
**40°** (optional 60° using same horn)  
**90° x 40°**  
**700w @ 8ohm**  
**150w @ 8ohm**  
**One cab'** (increases output to 114dB@10m)  
**Yes** (simple K&M pole mount or stand)  
**30 seconds**  
**1.5 minutes**  
**20 seconds**  
**20°** (when fitted with M10 nutplates)  
**70°**  
**360°**  
**Ideal** (superior vertical dispersion)  
**Ideal** (narrower horizontal dispersion)  
**Ideal** (light enough to sit safely on pole)  
**Superb wide band response**  
**15" driver offers a warm sound**  
**Fast transient delivery** (800Hz - 3.5KHz)

## Conclusion

Whilst this 3 box line array has fashionable advantages, in the final analysis it's over 1.6 times larger, 2.9 times heavier and 3.5 times more expensive than the compact, point source Sherman G5

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 G5 cannot be used in all situations however, it's our argument that the G5 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 G5 is simply streets ahead of the line array in two of the more important areas - sound quality and defined coverage.