

**GSGC2 & 3** 

# COMMENTATORS SYSTEM

**PRODUCT DETAILS** 

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# GLENSOUND ELECTRONICS LTD

GSGC2&3 MULTIWIRE COMMENTATORS SYSTEM		HANDBOOK CONTENTS
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# MULTI-WIRE COMMENTATORS SYSTEM

Glensound CO-AXIAL commentators equipment is an industry standard for international events with a large number of commentators. We have now developed equipment for use with fewer commentators but where sound quality is of particular importance. The system consists of 1, 2 or 3 commentators boxes type GSGC2 along with a base station. There is a choice of base station. The first and simplest is a GSGC3 which is basically a power unit and break out box to handle up to 3 GSGC2s. A more comprehensive base station is our GSGC11 whose facilities include mixing and monitoring circuits.

### SYSTEM FEATURES

- ♦ Use with 1,2 or 3 Commentators / Producers
- ♦ Wide bandwidth and low noise
- ♦ High headphone levels possible
- ♦ Very flexible
- ♦ Interfaces with a standard audio mixer
- ♦ Compact and Robust

### **GSGC2 FEATURES**

- ♦ Separate 5 channel mixer provided for each ear
- **♦** TB switches cut programme output
- **♦** Massive Headroom
- Connected to base station with a single multi-pair cable
- ♦ Connectors fitted for Headset or separate Mic and Headphones

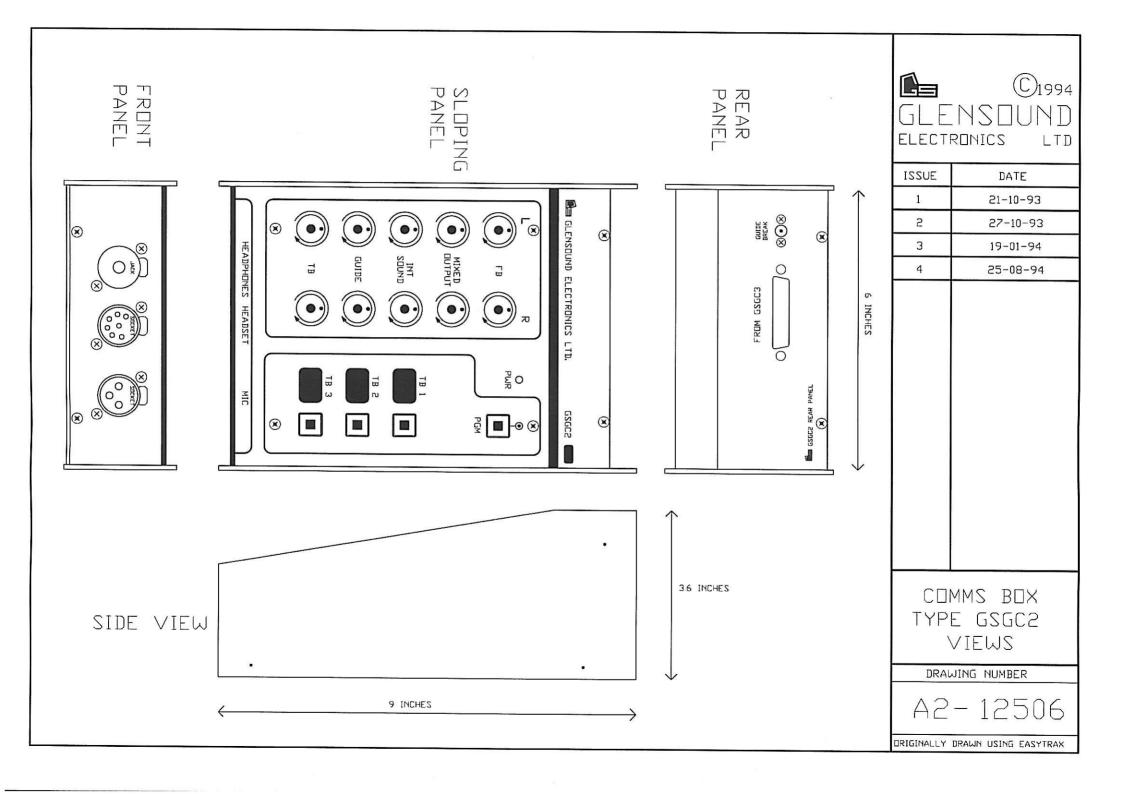
### GSGC3 FEATURES

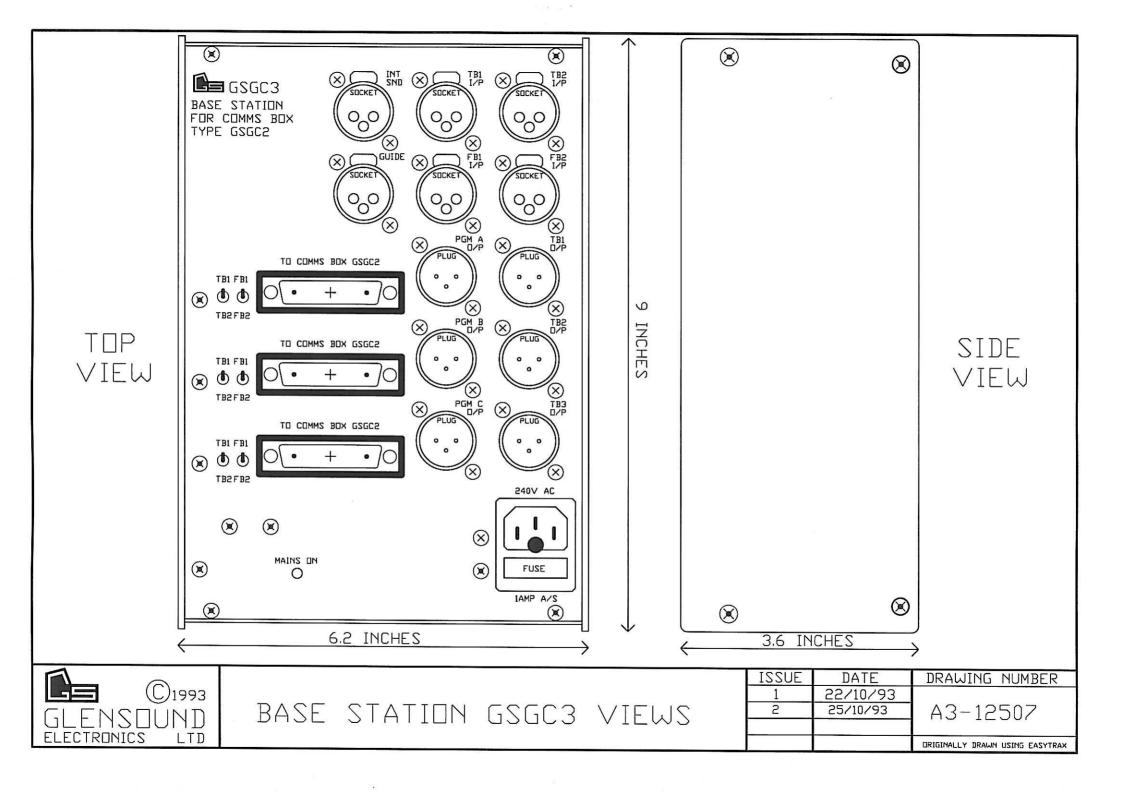
- ♦ 3 separate progamme outputs 1 for each GSGC2
- ♦ 3 separate TB outputs Each box can talk to any or all of the others
- All inputs and outputs balanced
- **♦** Each GSGC2 can be fed from 1 of 2 Talk Back inputs
- **♦** Each GSGC2 can be fed from 1 of 2 Feed Back inputs

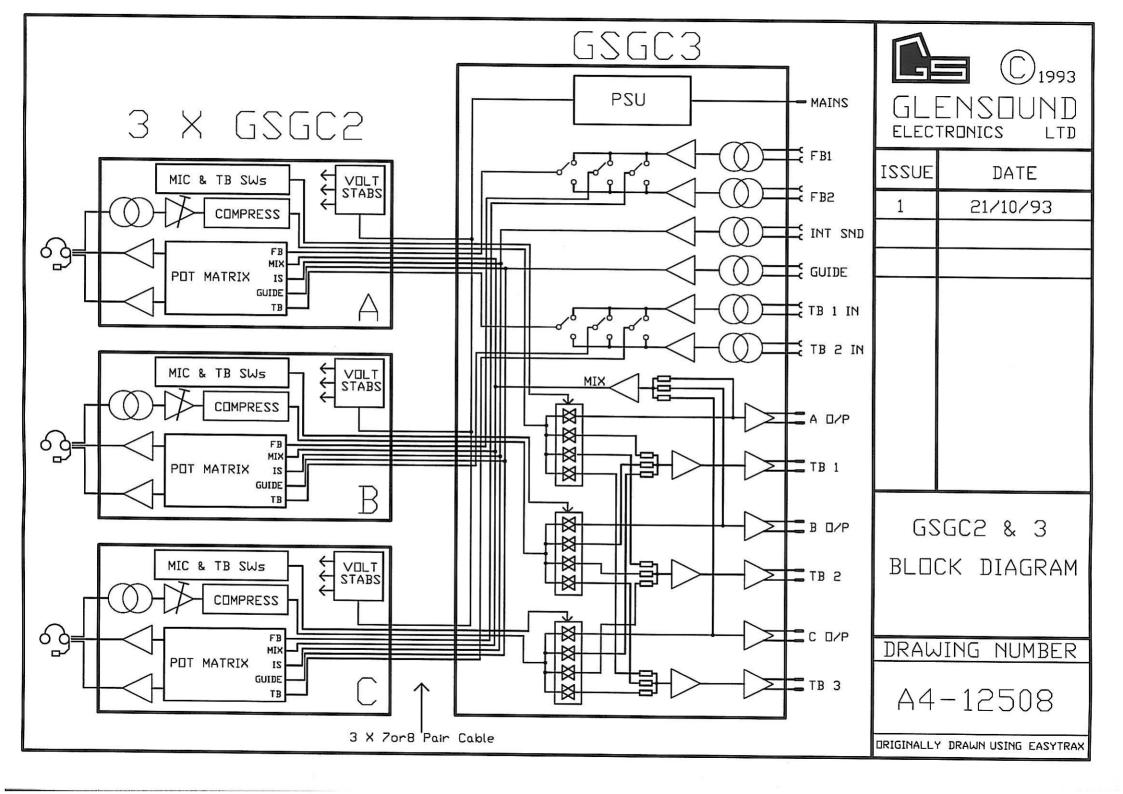
### GSGC11 FEATURES

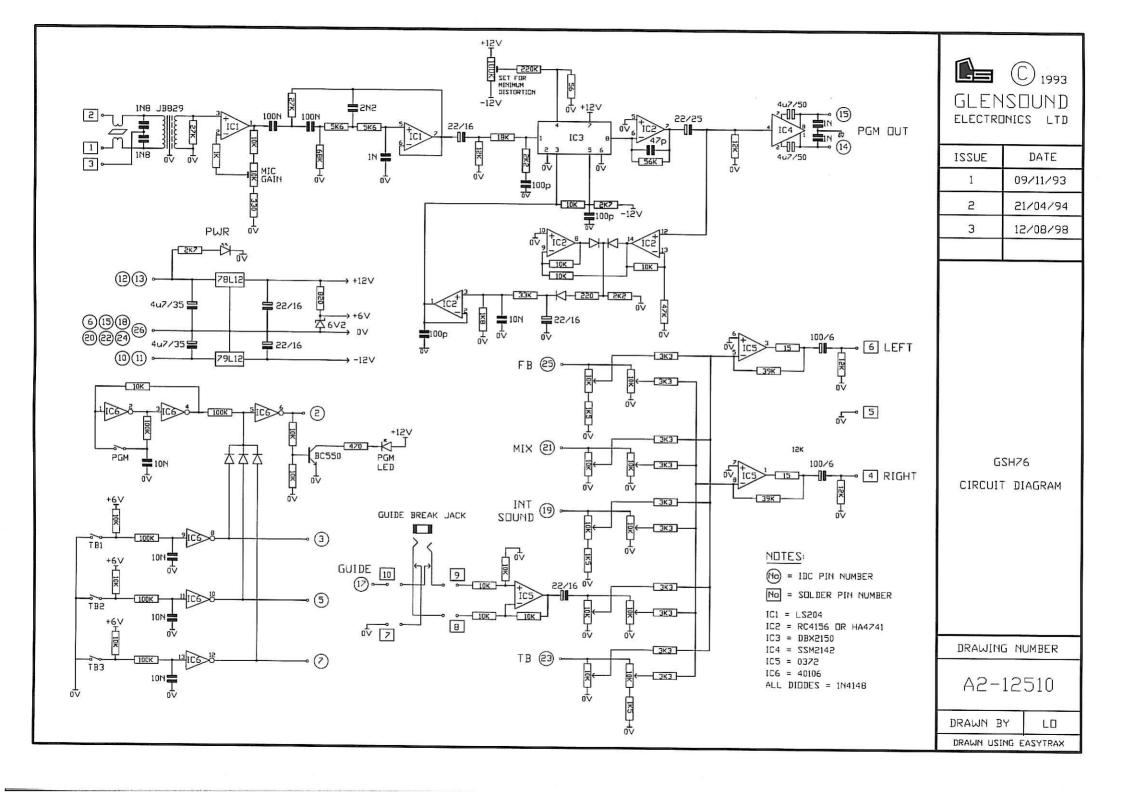
- ♦ All the features of the GSGC3
- ♦ Contains a 4 channel mixer to balance the 3 GSGC2s and international sound
- ♦ Contains a LED PPM and headphone amp to monitor all inputs and outputs
- **♦** Input level controls fitted for the two feedback inputs
- ♦ Constructed in a 1U subrack with rear panel varicons

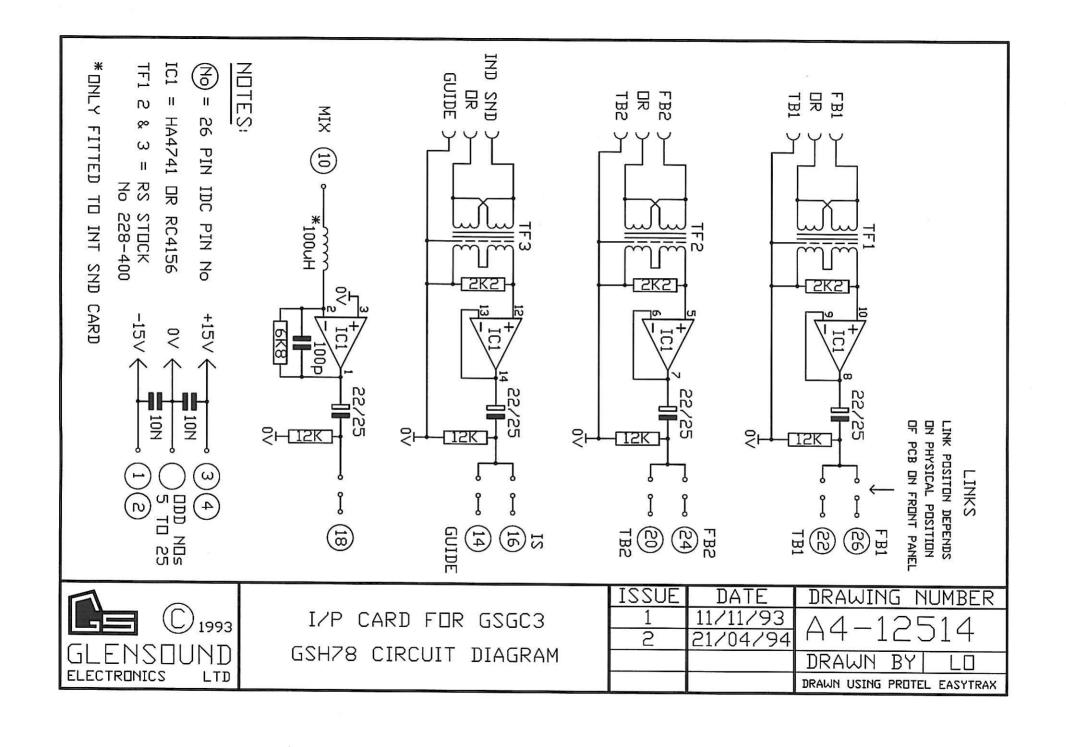


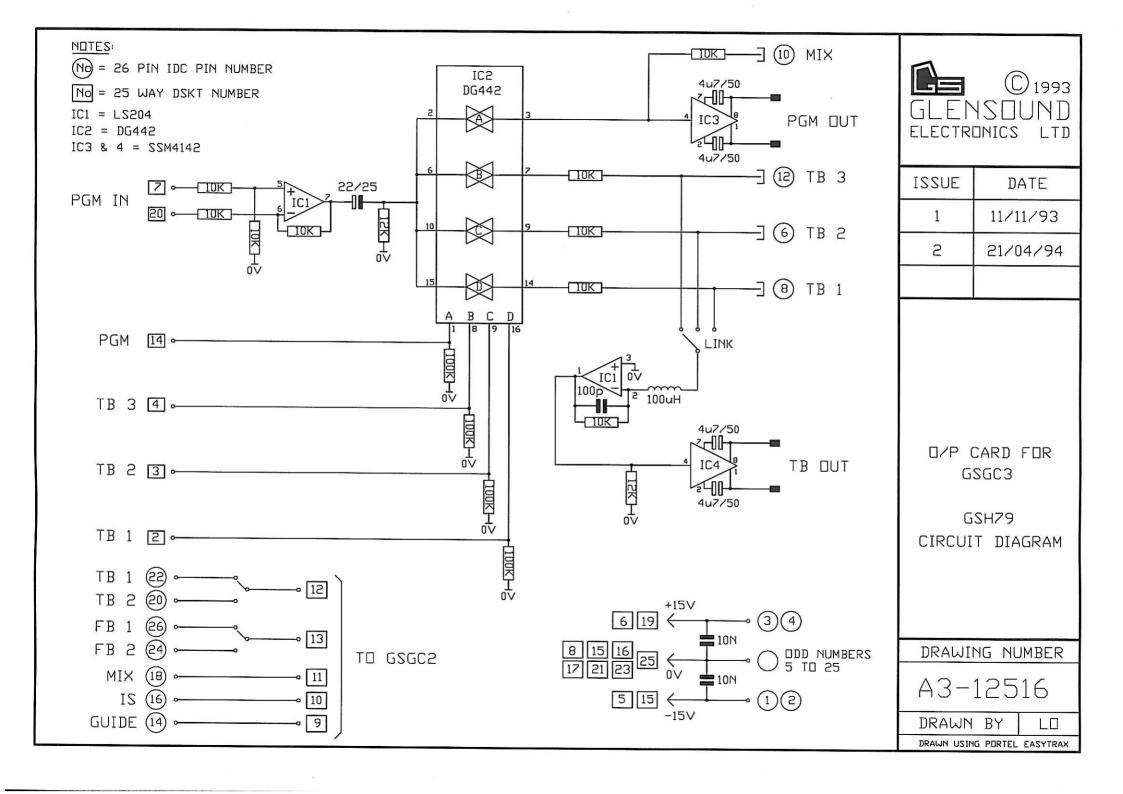


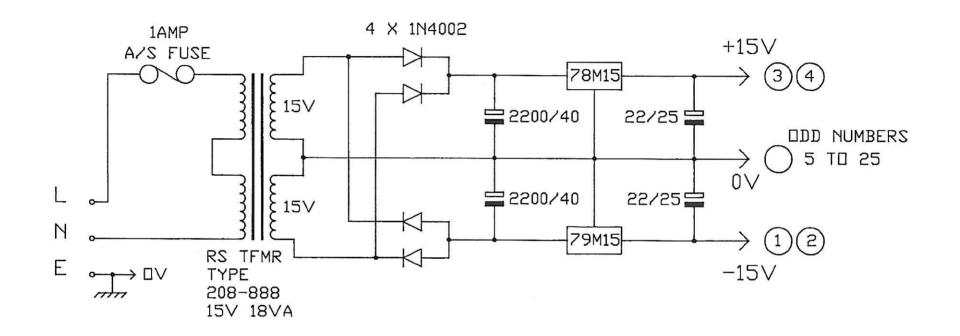








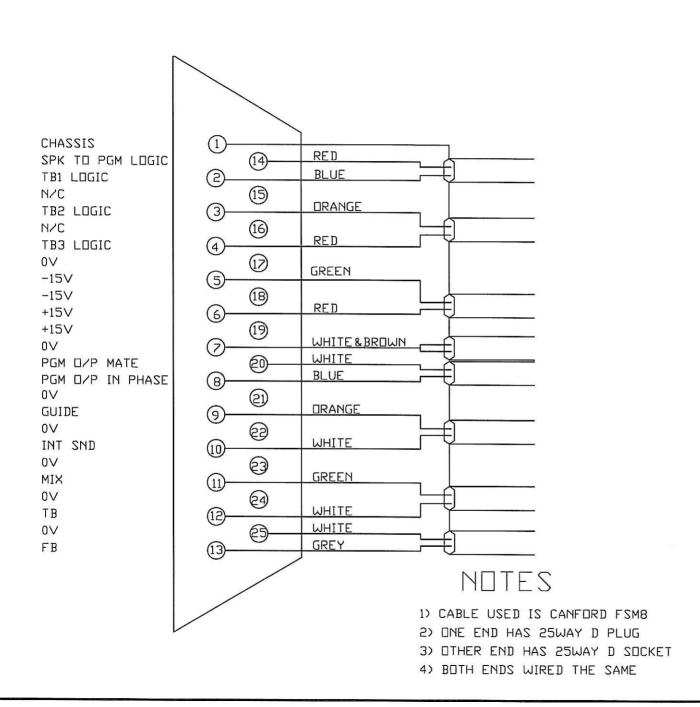




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PSU FOR GSGC3 GSH77 CIRCUIT DIAGRAM

ISSUE	DATE	DRAWING NUMBER
1	08/11/93	A4-12512
2	26/05/94	HA ICOIC
3	19/08/98	DRAWN BY LO
		DRAWN USING PROTEL EASYTRAX



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ISSUE	DATE		
1	22/04/94		
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WIRING DETAILS			
FOR GSGC2 & 3			
INTERCONNECTING			
LEADS			
	DRAWING NUMBER A3-12517		
l A3	H3-1501/		

DRAWN BY

AMD

ORIGINALLY DRAWN USING EASYTRAX

# **GLENSOUND ELECTRONICS LTD**

## WIRING INFORMATION FOR GSGC2 COMMENTATORS BOX

# CONN TYPE FUNCTION No

1 XLR7 Headset Socket

Pin 1 = Ground

Pin 2 = MIC in Phase

Pin 3 = MIC Mate

Pin 4 = L Ear in Phase

Pin 5 = L Ear Mate

Pin 6 = R Ear in Phase

Pin 7 =R Ear Mate



# GSGC2&3 MULTI WIRE COMMENTATORS SYSTEM SPECIFICATION

### GSGC2 MIC INPUT (MEASURED at GSGC3 OUTPUT)

Input Impedance

1k-1k5 ohms transformer balanced

Frequency Response

40Hz-15kHz +/- 1dB

Pre-set Gain Range

-45dBu to -70dBu for 0dBu output

THD with 0dBu out

< 0.1% (Any freq. 100Hz-10kHz)

Noise at max.. gain Noise at min gain < -47dBu Quasi peak (20Hz-20kHz) (i/p = 300 ohms)

Max.. i/p at max.. gain

< -66dBu Quasi peak (20Hz-20kHz) (i/p = 300 ohms)

Max.. i/p at max.. gair

-30dBu 0dBu

Connector

XLR 3pin fixed socket

### **GSGC2 GUIDE BREAK JACK INPUT**

Input Impedance

> 20k ohms electronically balanced

Level

0dbu

Connector

Bantam Jack socket

### **ALL GSGC3 OUTPUTS**

Output Impedance

nominal 50 ohms electronically balanced

Level

0dBu at line up +8dBu programme peaks

Compressor Threshold

+3dBu

Compression Ratio

Starts gently and increases to 4:1 max..

Connectors

XLR 3pin fixed plugs

### ALL GSGC3 INPUTS (MEASURED at HEADPHONE OUTPUT)

Input Impedance

> 15k ohms transformer balanced

Frequency Response

20Hz-15kHz +/- 1dB

Nominal Input Level

0dBu

Connectors

XLR 3pin fixed sockets

### **GSGC2 HEADPHONE OUTPUTS**

This equipment is designed to be used with medium to high impedance headphones in the range of 200 ohms to 2K ohms

Output Impedance

< 10 ohms

Max. Output

+20dBu into bridging load +17dBu into 300 ohms

Connector

B gauge Tip Ring Sleeve Jack socket

### MAINS POWER

Mains Voltage

230 volts AC +/- 10%

Frequency

45 to 60 Hz

Consumption

< 20VA

The GSGC3 uses a mains transformer with two primary windings connected in series. It is possible, by the use of tools and a soldering iron to reconnect these primary windings in parallel. Then the input voltage would be 115volts +/- 10%

### DIMENSIONS

GSGC2

Height = 92mmWidth = 153mmDepth = 229mm

Weight = 1.2 Kilos

GSGC3

Height = 92mmWidth = 158mmDepth = 229mm

Weight = 2.4 Kilos

### ACCESSORIES INCLUDED

One x 3M long multiway D lead is supplied with each GSGC2 For UK sales only - One IEC mains lead is supplied with each GSGC3 Other mating connectors are not included.

### **ACCESSORIES AVAILABLE**

Glensound can supply polycarbonate or aluminium cases to house various combinations of units with or without the cables.

Interconnecting D leads can be supplied up to 50M long.

Suitable closed or open ear broadcast quality headsets.

The GSGC2 front panel is punched for a multipin XLR connector for a headset. Because there are no fixed standards for the number of pins or the pin outs of headset connectors, this connector is not normally fitted. It is possible for us to fit any XLR connector as an extra, wired to your specification.