**SPECIFICATIONS:**

- **INPUTS:**
  - XLR: pin 2 hot, pin 3 cold
  - RCA: tip = hot, ring = cold
- **OUTPUTS:**
  - XLR: pin 2 hot, pin 3 cold
  - RCA: tip = hot, ring = cold

- **FREQUENCY RESPONSE:**
  - 20Hz to 20kHz +0/-1 dB

- **DISTORTION:**
  - THD 0.015% Line in to mix out at 1kHz

- **CROSSOVER:**
  - Output mute better than 75 dB
  - L-R separation better than 65 dB

- **NOISE:**
  - 22Hz to 22kHz

- **METERING:**
  - Peak responding bargraph (OdB = +4dBu)

- **PEAK LEVELS:**
  - Line pre-amp at OdB: -88dBu
  - Mix noise: -80dB ref OdB

- **CONSTRUCTION:**
  - All metal chassis.
  - Single panel with individual removable circuit assemblies.
  - Removable base.
  - External power supply.

- **POWER REQUIREMENTS:**
  - 50Hz/60Hz 100W

- **PHANTOM POWER:**
  - +48V DC

- **DEALER:**
  - Allen & Heath, Kienick Industrial Estate, Penryn, Cornwall TR10 9LU
  - Tel: 01326 372010 Fax: 01326 377097

---

**CONSTRUCTION:**

- All metal chassis.
- Single panel with individual removable circuit assemblies. Removable base.
- External power supply.
- POWER REQUIREMENTS: 50/60Hz 100W
- Mains voltage set for local requirements.
- PHANTOM POWER: +48V DC
- Individually switched via 6.8kohms.
GL3-416
16-4-2-1 (16-6)
W 30.1" (765mm)
D 25.8" (657mm)
H 4.9" (125mm)
weight 43lbs (19.5kg)
packed 68lbs (31kg)

GL3-424
24-4-2-1 (24-6)
W 40.7" (1035mm)
D 25.8" (657mm)
H 4.9" (125mm)
weight 60lbs (27kg)
packed 90lbs (41kg)

GL3-X4
8 channel expander
W 10.6" (270mm)
D 25.8" (657mm)
H 4.9" (125mm)
weight 17lbs (7.5kg)
packed 24lbs (11kg)

MPS9G
External power supply
W 3.9" (700mm)
D 4.9" (725mm)
H 4.9" (125mm)
weight 77lbs (35kg)
packed 90lbs (41kg)

BLOCK DIAGRAM

GROUP
1 of 4

MASTERS

STEREO RETURN 1 of 4
SPIRIT FOLIO RAC PAC

SYSTEM BLOCK DIAGRAM

MONO INPUT CHANNELS (1-10)

STEREO INPUT CHANNELS (11-14)

TYPICAL STEREO RETURN (A-D)
**ELECTRONIC PERFORMANCE**

| 0dBv = 0.775 RMS 1kHz | Ovu = +4dBv = 1.23 Volts RMS |

**Gain**
- MIC in to GROUP OUT +82dB max
- MIC in to L/R OUT +72dB max
- LINE in to L/R OUT +50dB max
- LINE in to GROUP OUT +60dB max
- GROUP to L/R OUT +10dB max
- L/R to MONO OUT +6dB
- AUX RETURN to GROUP OUT +17dB max

Each model is shipped in protective packing with the power supply and one owner’s handbook which includes technical service data and schematics.

**Frequency Response**
Equaliser set to flat response or switched out - 20Hz-20kHz +0,-1dB

**Output**
- Max level +21dBv recommended load 2K ohms or more, with 600 ohms load max level +18dBm

**Distortion**
THD typically better than 0.05%

20Hz-20kHz at normal levels and gain settings.

**Equaliser**
- HF continuously variable ±12dB with shelving characteristic at 8kHz
- 3.5kHz continuously variable peak/ dip ±12dB centred at 3.5kHz, Q=0.6
- 250Hz continuously variable peak/ dip ±12dB centred at 250Hz
- LF continuously variable ±12dB with shelving characteristic at 80Hz

Microphone input equivalent noise -125dBm (2000hm source).

Line input pre-amp noise at 0dB gain: -68dB.

**Noise Performance**
RMS noise 20kHz bandwidth, ref 0VU

<table>
<thead>
<tr>
<th>Model</th>
<th>SR8</th>
<th>SR12</th>
<th>SR16</th>
<th>SR416</th>
<th>SR424</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stereo Output, all inputs routed and faders closed</td>
<td>-83dB</td>
<td>-87dB</td>
<td>-86dB</td>
<td>-85dB</td>
<td>-83dB</td>
</tr>
<tr>
<td>Group Output, all inputs routed and faders closed</td>
<td>-79dB</td>
<td>-76dB</td>
<td>-79dB</td>
<td>-79dB</td>
<td>-79dB</td>
</tr>
<tr>
<td>Aux Output</td>
<td>-89dB</td>
<td>-86dB</td>
<td>-82dB</td>
<td>-82dB</td>
<td>-79dB</td>
</tr>
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</table>

Microphone input equivalent noise -125dBm (2000hm source).

**Dimensions mm/in**

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<th>SR416</th>
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<tr>
<td>Width</td>
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<td>600 (24)</td>
<td>728 (29)</td>
<td>872 (35)</td>
<td>1128 (45)</td>
</tr>
<tr>
<td>Height</td>
<td>100 (4)</td>
<td>100 (4)</td>
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</tr>
<tr>
<td>Front-to-back</td>
<td>644 (26)</td>
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</tr>
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</table>

All models use power supply 48V MP38P

The supply voltage setting may be altered to suit local requirements if required.

Microphone input equivalent noise -125dBm (2000hm source).

Line input pre-amp noise at 0dB gain: -68dB.

**SR PLUS BLOCK SCHEMATIC**
SR SERIES BLOCK SCHEMATIC

CIRCUIT BOARD

SR SERIES

AUX SELECT

MONITOR SELECT

SUM AMP

AUX SELECT

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**ELECTRONIC PERFORMANCE**

<table>
<thead>
<tr>
<th>MIC IN to GROUP OUT</th>
<th>+62dB max</th>
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</thead>
<tbody>
<tr>
<td>MIC IN to L/R OUT</td>
<td>+72dB max</td>
</tr>
<tr>
<td>LINE IN to L/R OUT</td>
<td>+50dB max</td>
</tr>
<tr>
<td>LINE IN to GROUP OUT</td>
<td>+60dB max</td>
</tr>
<tr>
<td>GROUP to L/R OUT</td>
<td>+10dB max</td>
</tr>
<tr>
<td>AUX RETURN to GROUP OUT</td>
<td>+12dB max</td>
</tr>
<tr>
<td>FX RETURN to L/R OUT</td>
<td>+12dB max</td>
</tr>
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Microphone Input equivalent noise -125dBm (200ohm source)

**NOISE PERFORMANCE**

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**INPUT GAIN CONTROL RANGE**

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</table>

**FREQUENCY RESPONSE**

Equaliser set to flat response or switched out - 20Hz-20kHz +0, -1dB.

**OUTPUTS**

Max level +21dBv, recommended load 2k ohms or more. With 600 ohms load max level -16dBm.

**DISTORTION**

THD typically better than 0.05%, 20Hz-20kHz at normal levels and gain settings.

**CONSTRUCTION**

Steel control panel, stove enamel, epoxy silkscreen legend. Steel base, black finish with wood trims.

Channel circuit boards are individual, secured to control panel.

Internal busbar circuits employ removable harness.

IC op amp circuit design with discreet transistor input pre-amp.

**EQUALISER**

HF continuously variable ±12dB with shelving characteristic at 8kHz.

3.5kHz continuously variable peak/dip ±12dB centred at 3.5kHz, 0=0-6.

250Hz continuously variable peak/dip ±12dB centred at 250Hz.

LF continuously variable ±12dB with shelving characteristic at 89Hz.

Each model is shipped in protective packing with the power supply and one owner handbook which includes technical service data and schematics.

**DIMENSIONS mm(in)**

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</tr>
<tr>
<td>Packet weight</td>
<td>20 (44)</td>
<td>25 (55)</td>
<td>26 (58)</td>
<td>35 (77)</td>
<td></td>
</tr>
</tbody>
</table>

All models use power supply AHB MPS8P

The supply voltage setting may be altered to suit local requirements if required. BNC connector to suit lamps rated 12-15v, 50mA, A, D, C.

**SR PLUS BLOCK SCHEMATIC**
The AHB SR Series are a versatile range of sound mixing consoles designed for live sound usage and stereo or 4-track recording.

Constructed of high quality durable materials, designed and matched with components that allow ease of use, they represent the ideal equipment for high quality sound reinforcement through fixed installations or touring PA systems.

The panel colouring is designed so that under poor lighting conditions the graphics are easily read, where circumstances prevail, a connector is provided for gooseneck lights.

The SR series includes the following models: SR8 stereo and mono outputs, 8 input channels.
SR12 stereo and mono outputs, 12 input channels.
SR16 stereo and mono outputs, 16 input channels.
SR24 stereo and mono outputs, 24 input channels.
SR416 four group, stereo and mono outputs, 16 input channels.
SR424 four group, stereo and mono outputs, 24 input channels.

All models use power supply AHB MPS8P.

**CONSTRUCTION:**
1. Steel control panel, stave enamel, epoxy silk screen legend.
2. Steel base, black finish with furniture trims.
3. Channel circuit boards are individual, secured to control panel.
4. Internal busbar circuits employ removable harnesses.
5. IC op amp circuit design with discrete transistor input pre amp.

**ELECTRONIC PERFORMANCE:**
- All inputs routed to... (details omitted for brevity)

**FIX RETURN to L/R OUT +17dB max**
**AUX RETURN to GROUP OUT +17dB max**

**Microphone input equivalent noise -125dBm 1200 ohm source.**
**OdBv = 0.775 RMS 1 kHz**
**OdBv = 1.23V RMS 100Hz**

**ALLEN AND HEATH BRENNELL LTD.**

In line with our policy of continuous product improvement, we reserve the right to amend the design and specification of equipment without notice.
### INPUT CHANNEL
- 1/4" line level input jack accepts balanced or unbalanced signals.
- XLR Microphone input electronically balanced.
- Pre-Equaliser Insertion Point allowing processing equipment to be patched into individual channels.
- Channel Gain control -10dB to 0dB range.
- 4 Band Fixed E.Q. High Frequency Shelving 8kHz
- High Mid Frequency Peaking 2kHz
- Low Mid Frequency Peaking 2kHz
- Low Frequency Shelving 80Hz
- E.Q. By-pass Switch
- 4 Auxiliary Sends 2 pre fader/pre E.Q. 2 post fader
- Configuration user Modifiable A & B used as effects sends C & D used as monitor sends
- Bus Assignment Direct to L/R or submaster 1/3 or 1/3
- Left Right Pan Control
- Channel PFL Switch
- Channel Mute Switch
- Channel 100mm long throw fader

### GROUPS
- Insertation point for aux effect returns or tape monitor
- Insert allowing processing equipment to be patched into individual groups.
- Group meter, monitors the output level of the group. Range -25 to +6 VU (0 VU = 0dBV).
- Aux tape level control.
- Controls the return level of the signal selected by Aux tape switch.
- Aux Switch. Selects the function of the group auxillary return circuit to act as an aux effect return to the group or a tape monitor to the stereo mix.
- Left Right Pan Control.
- Controls the position of the group signal in the stereo image.
- Group PFL Switch. Injects pre-fader group signal into PLF mix bus.
- Peak indicator LED warns of impending overload.
- Group 100mm long throw fader.

### OUTPUT CHANNELS
- L/R master outputs of Desk.
- Aux C&D source for FX devices.
- FX Returns I (GJ) Aux C, controls FX return to monitor mix C. Aux D, controls FX return to monitor mix D. Level controls amount of FX returned to L/R Outputs. Pan positions FX returns within the stereo mix.
- FX Return PFL select switch.
- L/R overload peak warning LED.
- L/R 100mm long throw faders. Master level of stereo output as well as summed mix for mono output.

### MASTER
- Monitor Output.
- Aux C&D outputs for feedback.
- Summed Mono output of desk.
- Power on indicator LED.
- Phantom Power on/off switch.
- FX Returns I (GJ) Aux C, controls FX return to monitor mix C. Aux D, controls FX return to monitor mix D. Level controls amount of FX returned to L/R Outputs. Pan positions FX returns within the stereo mix.
- FX Return PFL select switch.
- L/R overload peak warning LED.
- L/R 100mm long throw faders. Master level of stereo output as well as summed mix for mono output.

### MIXING ART WITH SCIENCE
The Allen & Heath SR plus series of sound reinforcement consoles is a development of their highly successful SR range.

SR mixers are installed in churches, leisure centres, theatres and concert halls around the world, including the Purcell Room at London's South Bank Centre.

SR consoles are frequently behind the quality sound demanded for today's professional product launches and commercial presentations.

SR Plus, like its predecessor, has been designed and built for the rugged life led by a touring board.

SR Plus now has an input pad switch operating on both microphone and line inputs for maximum flexibility on gain matching and XLR connectors are provided for left, right and mono outputs. These can be balanced with the Allen & Heath ground sensing electronic output balance amplifier.

SR Plus stands for Sound Reinforcement - now more than ever.

**PRODUCT RANGE**

**SR424**
- Four group, stereo and mono outputs
- 24 input channels

**SR416**
- Four group, stereo and mono outputs
- 16 input channels

**SR16**
- Stereo and mono outputs
- 16 input channels

**SR12**
- Stereo and mono outputs
- 12 input channels

**SR8**
- Stereo and mono outputs
- 8 input channels

**INPUT CHANNEL**

- **LIVE LEVEL INPUT JACK**
  - 1/4" Jack accepts balanced or unbalanced signals.

- **MICROPHONE INPUT XLR**
  - Electronically balanced input with phantom powering.

- **INSERT JACK**
  - Pre-distortion insert point.

- **INPUT GAIN**
  - Adjusts pre-amplifier to suit various input levels.

- **PAD SWITCH**
  - Reduces mic input by 18 dB or line input by 12 dB.

- **HF CONTROL**
  - Shelving characteristic with ±12 dB cut/boost at a corner frequency of 8 kHz.

- **HIGH MF CONTROL**
  - Peaking characteristic with ±12 dB cut/boost at a centre frequency of 3.5 kHz.

- **LOW MF CONTROL**
  - Peaking characteristic with ±12 dB cut/boost at a centre frequency of 250 Hz.

- **LF CONTROL**
  - Shelving characteristic with ±12 dB cut/boost at a corner frequency of 80 Hz.

- **EQ CUT SWITCH**
  - Bypass switch for the equaliser section allowing instant comparisons.

- **AUX SEND LEVELS A,B,C,D**
  - Allows up to four mixes of input sources for foldback, echo and cue mixes. A & B post fade, C & D pre eq. (internal links allow optional re eq, pre fade or post fade sends.)

- **ASSIGNMENT SWITCHES**
  - (SR Plus 416, SR Plus 424 ONLY)
  - Selects the channel to groups 1 - 4 or L - R outputs.

- **PAN CONTROL**
  - Used to position the input in the stereo mix or between a pair of groups.

- **PFL SWITCH**
  - Monitors pre-fader signal to allow cueing of input signal.

- **MUTE SWITCH**
  - (SR Plus 416, SR Plus 424 ONLY)
  - Selects the channel to groups 1 - 4 or L - R outputs.

- **PEAK INDICATOR**
  - LED warns of imminent overload (clipping).

- **CHANNEL FADE**
  - With 10 dB boost available.
GROUP OUTPUT
- GROUP OUTPUT JACK
  - With optional electronically balanced output.
- AUX INPUT JACK
- TAPE INPUT JACK
- GROUP INSERT JACK
  - Pre fade insertion point.
- GROUP METER
  - 10 segment VU characteristic display giving visual indication of group output signal level.

AUX/TAPE SWITCH AND LEVEL CONTROL
- With switch in aux position, signals from an external source can be mixed into the group with the level control. With switch in the tape position, group output no longer feeds the pan control and the tape input is fed to the L - R outputs via the level and pan controls. The group fader always feeds the group output jack.

PAN CONTROL
- Used to position the signal in the stereo mix.

GROUP PFL SWITCH
- Monitors pre-fader signal to allow cueing of group signal.

PEAK INDICATOR
- LED warns of imminent overload (clipping).

GROUP FADER
- With 10 dB boost available.

STEREO OUTPUT
- R (L) MASTER OUTPUT XLRs
  - With optional electronically balanced output.
- AUX B (A) OUTPUT JACK
- FX RETURN 2 (1) INPUT JACK
  - Dual level input connector
- R (L) INSERT JACK
  - Pre fade insertion point
- R (L) MONITOR METER
  - 10 segment VU characteristic display giving visual indication of the selected monitor source.

FX RETURN 2 (1)
- Line input signal can be added to the stereo mix and to aux mixes C and D. A level control, 3 Aux send controls and a pan control are provided, along with a PFL switch.

PEAK INDICATOR
- LED warns of imminent overload (clipping).

MASTER R (L) OUTPUT FADER
- Controls the level to the stereo output and mono summing amplifier.

MASTER SECTION
- MONO OUTPUT XLR
  - With optional electronically balanced output.
- AUX D OUTPUT JACK
- AUX C OUTPUT JACK
- MONITOR OUTPUT JACK
  - Unbalanced stereo monitor output.

PHANTOM POWER LED AND SWITCH
- Switches the 48 volt phantom power for the microphones on and off.

AUX B (A) LEVEL CONTROL
- Auxiliary mix master output level control.

AUX C LEVEL CONTROL
- Master output level control.

AUX D LEVEL CONTROL
- Master output level control.

MONO LEVEL CONTROL
- Master control of summed L-R mix (MONO) output.

MONITOR SOURCE SELECT SWITCHES
- Selects the signal for headphone or control room monitoring and monitor meters.

MONITOR LEVEL CONTROL
- Sets listening level for both monitor and headphone output.

HEADPHONE JACK
**NOISE PERFORMANCE**

RMS noise 20kHz bandwidth, ref 0VU

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<td>Group Out, all inputs routed and faders closed</td>
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Microphone Input equivalent noise -125dBm (2000 ohm source).

Line input pre-amp noise at 0dB gain -38dB.

**DIMENSIONS mm(in)**

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<td>100 (4)</td>
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</tr>
<tr>
<td>Front-to-back</td>
<td>644 (26)</td>
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</tbody>
</table>

All models use power supply AHB MPS 8P

UK
69 Ship Street
Brighton BN1 1AE
Tel: 0273 245950
Fax: 0273 627767
Tel: 01223 561146

USA
5 Curnall Rd
Orange, Connecticut 06477
Tel: (203) 736 8594
Fax: (203) 736 8714

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**ELECTRONIC PERFORMANCE**

0dBv = 0.775 RMS 1kHz

0VU = +4dBv = 1.23 Volts RMS

**GAIN**

MIC IN to GROUP OUT +82dB max
LINE IN to L/R OUT +72dB max
LINE IN to GROUP OUT +50dB max
GROUP to L/R OUT +10dB max
L/R to MONO OUT +6dB
FX RETURN to L/R OUT +12dB max
AUX RETURN to GROUP OUT +16dB max

**FREQUENCY RESPONSE**

Equaliser set to flat response or switched out – 20Hz-20kHz +0, -1dB

**OUTPUTS**

Max level +21dB, recommended load 2K ohms or more. With 600 ohms load max level +18dBm.

**DISTORTION**

THD typically better than 0.05% 20Hz-20kHz at normal levels and gain settings.

**EQUALISER**

HF continuously variable ±12dB with shelving characteristic at 6kHz.

3.5kHz continuously variable peak/dip ±12dB centred at 3.5kHz, Q = 0.6

250Hz continuously variable peak/dip ±12dB centred at 250Hz.

LF continuously variable ±12dB with shelving characteristic at 80Hz.

Each model is shipped in protective packing with the power supply and one owner handbook which includes technical service data and schematics.

**CONSTRUCTION**

Steel control panel, stove enamel, epoxy silkscreen legend.
Steel base, black finish with wood trims.
Channel circuit boards are individual, secured to control panel.
Internal busbar circuits employ removable harness.
IC op amp circuit design with discreet transistor input pre amp.

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In line with our policy of continuous product improvement, we reserve the right to amend the design and specification of equipment without prior notice.

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**SR PLUS BLOCK SCHEMATIC**
**WHY MIX WITH ANYONE ELSE?**

All the features and functions you'll ever need in a live sound environment... whether for conference sound, in a club, theatre or church... for touring, concert hire... or simply recording. Yet the simplest and cheapest button of all means that you can switch GL3 from a Front-Of-House console to a Monitor console, or use a combination of both functions simultaneously. A powerful advantage when the versatility of your equipment can be the key to success.

**FLEXIBLE FRONT-OF-HOUSE AND STAGE MONITOR CONSOLE**

**GROUP**

F.O.H. or Stage Monitor?

The front-of-house mix can switch determines the way in which OFF-ON switch is set. If the group is used for F.O.H. stereo mix, then the group is set for monitoring. The monitor engineer then can control the signal path to each of the monitor channels.

**MASTER**

Monitoring System

The group can operate in a number of ways:

- Group can operate in a number of ways:
  - Stereo (L+R) or mono.
  - Individually for each monitor channel.
  - Individually for each monitor channel.

**TWO INTO ONE WILL GO**

Stage Monitor Console

- Stereo mix for F.O.H. and stereo mix for stage monitor.
- Individually for each monitor channel.
- Individually for each monitor channel.

**MULTIPOINT Operation**

- Stereo mix for F.O.H. and stereo mix for stage monitor.
- Individually for each monitor channel.
- Individually for each monitor channel.

**Other Features**

- Dual 2-way monitoring output.
- Two monitor mix outputs.
- Stereo mix for F.O.H. and stereo mix for stage monitor.
- Individually for each monitor channel.
- Individually for each monitor channel.

**INPUT**

A wide range of inputs must be handled by the F.O.H. stereo mix. The GL3 has a total of 12 inputs, including 8 microphone inputs and 4 auxiliary inputs. These inputs can be connected to a variety of sources, such as microphones, line level inputs, and auxiliary inputs from other equipment.

- Mic inputs
- Line inputs
- Aux inputs

**OUTPUT**

The outputs of the GL3 are designed to handle a variety of loading conditions. The outputs include:

- Main outputs
- Submix outputs
- Monitor outputs

**Aux Sends**

- 8 aux send channels with level control and assignable mix outputs.
- 8 aux send channels with level control and assignable mix outputs.
- 8 aux send channels with level control and assignable mix outputs.

**Routing**

- 16 aux send channels
- 8 aux return channels
- 8 aux return channels

**Checks**

- 8 aux send channels
- 8 aux return channels
- 8 aux return channels

**Mix Fill or Wedge Mix**

- 8 aux send channels
- 8 aux return channels
- 8 aux return channels

**Subgrowing**

- 8 aux send channels
- 8 aux return channels
- 8 aux return channels

**Talkback to Mix**

- 8 aux send channels
- 8 aux return channels
- 8 aux return channels
**INTERNAL HEADROOM:** +23dBu

**MAX OUTPUTS:** balanced +27dBu into 600 ohms

**SIG LEDs:** dynamic responding, on at +20dBu

**PEAK LEOs:** on 5dB before clipping

**FREQUENCY RESPONSE:** 20Hz to 20kHz +0/-1 dB

**DISTORTION:** THD 0.015% Line in to mix out at 14kHz

**CROSSTALK:** output mute better than 1000dB at 1kHz

**L-R separation better than 65 dB

**NOISE:** 2kHz to 22kHz MFC DEN -128 dB into 150 ohms

**LINE pre-amp at 0dB**

**MIX noise (16 routed)**

**POWER REQUIREMENTS:** 100/60Hz 100W

**CONSTRUCTION:** All metal chassis.

Single panel with individual removable circuit assemblies. Removable base.

External power supply.

**PHANTOM POWER:** +48V DC

Individually switched via 6.8 kohms.

**MANUFACTURER:** Allen & Heath, Kentish Industrial Estate, Penryn, Cornwall TR11 9LU

Tel: 01326 372007 Fax: 01326 371097

A Harman International Company

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**GROUP 3 of 4**

**STÉREO RETURN 1 of 4**

**OUTPUTS:**

- **L R:** XLR
- **R MONO OUT:** XLR
- **GROUP OUT:** XLR
- **AUX OUT:** 1/4 in jack
- **2-TRACK SEND:** 1/4 in jack
- **MONITOR OUT:** 1/4 in jack
- **PHONES OUT:** 1/4 in jack

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**INPUT**

1 of 16, 24 or 32

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**MP59G**

External power supply

- **V:** 3.9" (100mm)
- **D:** 4.3" (110mm)
- **H:** 1.8" (49mm)

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**Packed:** 90ibs (41kg)
Flexible Front-of-House and Stage Monitor Console

Why Mix with Anyone Else?
All the features and functions you'll ever need in a live sound environment - whether for conference sound, a club, theater, or church - for tuning, contract hire, or stereo recording. Yet the simplest and clearest button of all means that you can switch GL3 from a Front-of-House console to a Monitor console, or use a combination of both functions simultaneously. A powerful advantage when the versatility of your equipment can be the key to success.

Input
A wide ranging public address pre-amplifier for mono or stereo.

Equalization
A twelve band parametric equalizer, with high and low shelving sections, in addition to a 12 band equalizer in the middle frequencies. This 12 band bellows can be switched on or off as required.

Group
GL3 has four groups, each with an independent input, unique level, delay, and EQ settings. A group can be assigned any source to be an input, with or without a source selection switch to the group. The group input can also be assigned as a sub-group of any other group. Each source can be pre-emphasized, switched on or off, and delayed to any desired amount.

Low cost without compromise, GL3 has 4 band mid-suspend EQ, 6 Aux sends with 2 preset switches and a unique switching facility for Front-of-House or Monitor configuration, or a combination of both.

Master
Two independent master sections, each with a four band EQ, a high-pass filter, a six band parametric equalizer, a delay and a separate monitor switch. The master can be switched to either a mono or stereo output. A sub-group can be assigned to any of the groups, with or without an input selection switch to the group. The sub-group can also be assigned as a sub-group of any other sub-group. Each source can be pre-emphasized, switched on or off, and delayed to any desired amount.

Master Monitoring System
A versatile and powerful system which includes a four-band EQ, a high-pass filter, a six band parametric equalizer, a delay, and a separate monitor switch. The master can be switched to either a mono or stereo output. A sub-group can be assigned to any of the groups, with or without an input selection switch to the group. The sub-group can also be assigned as a sub-group of any other sub-group. Each source can be pre-emphasized, switched on or off, and delayed to any desired amount.

Two into One
Monitor Console
A versatile monitor setup which can handle mono, stereo, and quadraphonic sound. The monitor console includes a four-band EQ, a high-pass filter, a six band parametric equalizer, a delay, and a separate monitor switch. The monitor console can be switched to either a mono or stereo output. A sub-group can be assigned to any of the groups, with or without an input selection switch to the group. The sub-group can also be assigned as a sub-group of any other sub-group. Each source can be pre-emphasized, switched on or off, and delayed to any desired amount.

Multifunctional Operation
Flexibility to handle all possible situations in a live sound environment, from simple stereo to complex multichannel systems, using either analog or digital inputs. The multifunctional operation includes a four-band EQ, a high-pass filter, a six band parametric equalizer, a delay, and a separate monitor switch. The multifunctional operation can be switched to either a mono or stereo output. A sub-group can be assigned to any of the groups, with or without an input selection switch to the group. The sub-group can also be assigned as a sub-group of any other sub-group. Each source can be pre-emphasized, switched on or off, and delayed to any desired amount.
**SPECIFICATIONS**

**Dimensions / Power**

- **Width**: 453
- **Packaged Width**: 605
- **Depth**: 483
- **Packaged Depth**: 230
- **Height**: 488
- **Packaged Height**: 620
- **Weight**: 10.5
- **Packaged Weight**: 13

**(Dimensions / mm - Weight / kg)**

- **Units**: mm
- **Weight**: kg

**Construction**

- All metal chassis 1112 Rack Mount. Single panel with removable circuit assemblies. Removable face plate.

**Power Requirements**

50-60 Hz mains supply for local requirements.

**Phantom Power**

- +48 V DC individually switched via 6.8 kohms

**Internal Operating**

- Level: +4 dBu

**Maximum Outputs**

50/60 Hz Mains voltage selector local requirements.

**Internal Power Supply**

10.5 VDC individually switched via 6.8 kohms

**Internal Operating Level**

-2 dBu

**Internal Headroom**

+23 dB

**Maximum Outputs**

- Bal 27 dBu into 600 ohms
- Un-bal 21 dBu into 2k ohms

**Meters**

- Peak response bargraph
- On @-20 dBu

**Frequency Response**

20 Hz – 20 kHz ±1/2 dB

**Impedance**

- Line into mixer out @ 1 kHz
- Channel balancing better than 90 dB at 1 kHz

**Cross-talk**

- >110 dB at kHz

**Channel Balance**

- >100 dB @ 1 kHz

**Noise**

- 22 Hz – 22 kHz (MIC EIN)
- -128 dBu, -88 dBu (LINE pre-amp)
- -85 dBu, -10 dBV (MIX)

**Manufacturer**

Allen & Heath, Kernick Industrial Estate, Penryn, Cornwall TR11 9LU

Tel: 01326 372070 Fax: 01326 377097

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