

ALLEN & HEATH

ALL RANGES

**LARGEFORMAT
LIVESOUND MIXERS**

**SMALLFORMAT
LIVESOUND MIXERS**

DJ PRODUCTS

**SOUNDMANAGEMENT
SYSTEMS**

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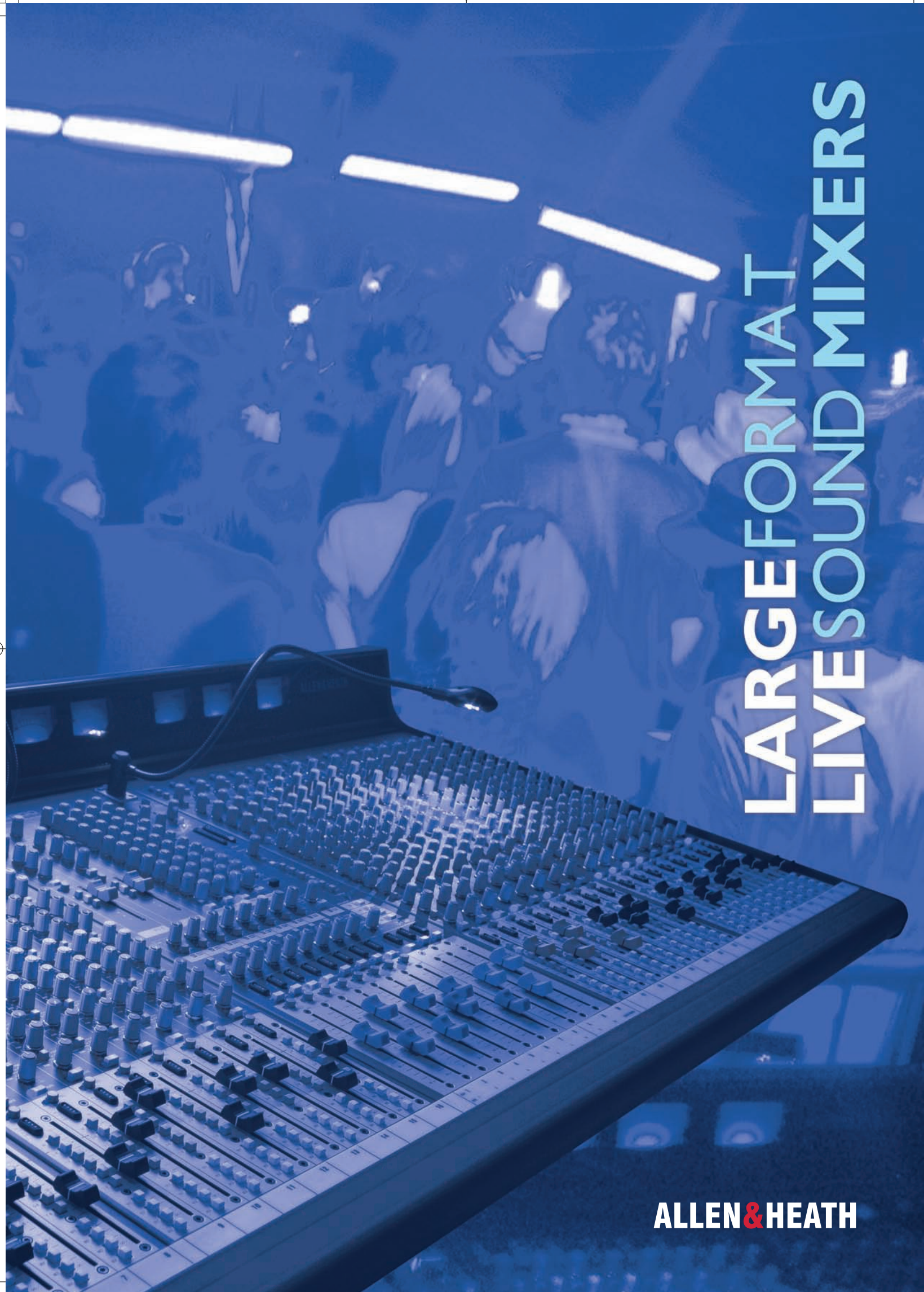
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LARGEFORMAT LIVE SOUND MIXERS

ALLEN & HEATH



ML3000

This compact VCA mixer is packed with all the tools you need for professional live sound mixing. The ML3000 offers an I/O capability and feature set that satisfies the latest trends in live sound engineering, in particular the growing number of inputs and outputs for multi-speaker house and monitor systems, demands of stereo in-ear monitoring, 3 speaker LCR imaging, advanced grouping and automation.



FEATURES

- 24+2, 32+2, 40+2, 48+2 channel frames
- 2 extra dual input stereo channels fitted as standard
- B option for 4 extra dual stereo in place of mono channels
- 8 VCA groups for level control
- Dual functionality for mixing front-of-house, stage monitors or both
- Monitor mode provides auxes with faders, inserts, mutes and meters
- LCRplus panning available from channels and groups
- 4 audio groups for inserting processors or feeding the matrix
- 8 aux sends plus aux 7-8 stereo mode for creating a true stereo mix
- 8x4 matrix with inserts and external inputs
- 8 mute groups
- 4 band EQ with swept mid range
- Swept 20-400Hz HPF
- Stereos can mix two balanced stereo sources into one channel
- 128 snapshot memories for MIDI/RS232 recall of VCA assignments and mutes
- **ALLEN & HEATH ML Archiver** software available for PC control of the memories
- Talkback to any of the fader masters and LCR outputs



ML3000

is a dual function, LCRplus, 4 group, 8 aux, 8x4 matrix, VCA console.

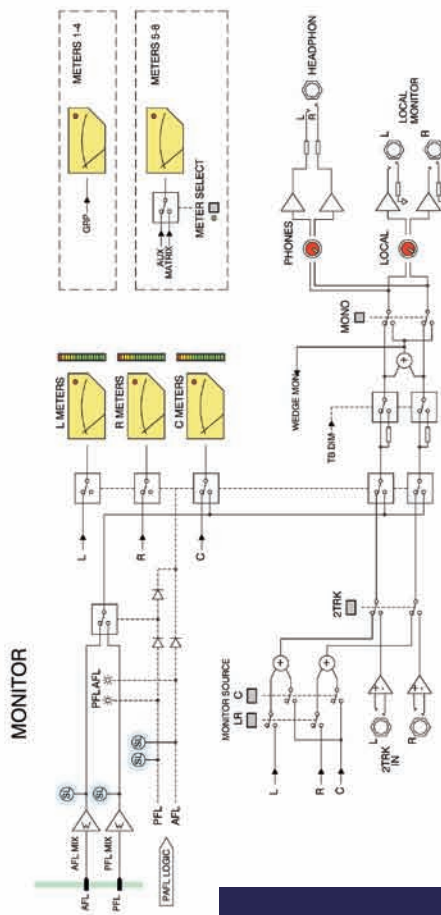
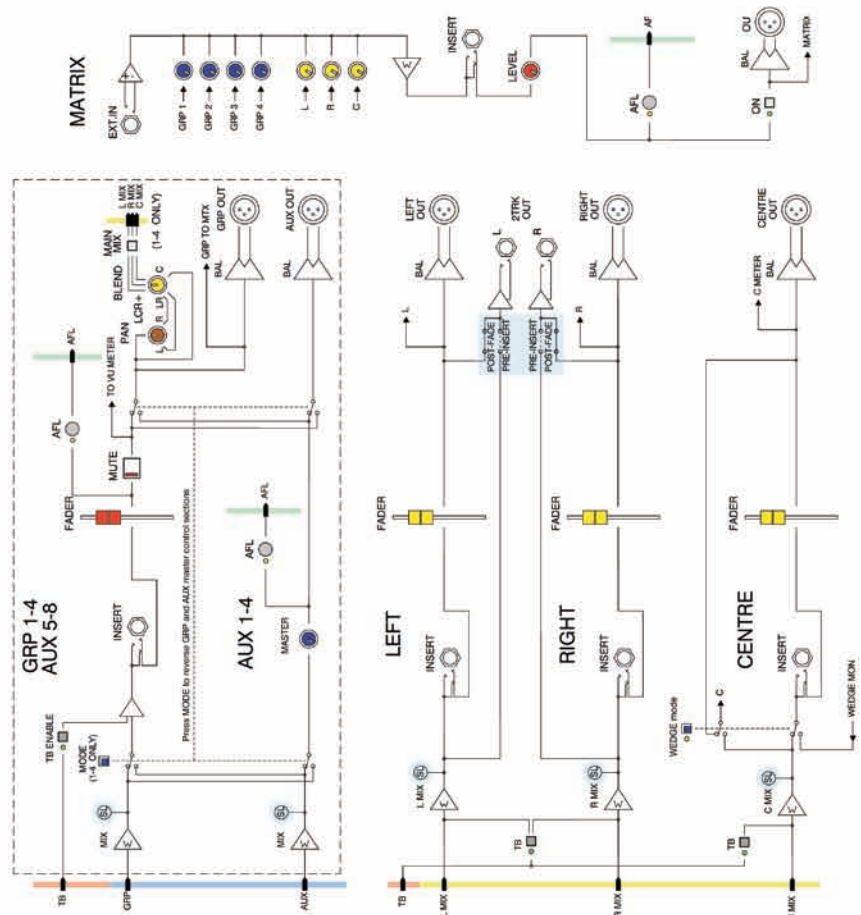
Frame sizes range from 24+2 to 48+2 channels, with B option for more stereo channels.



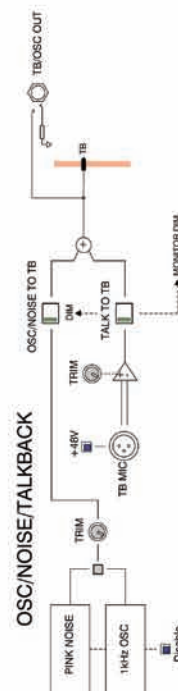
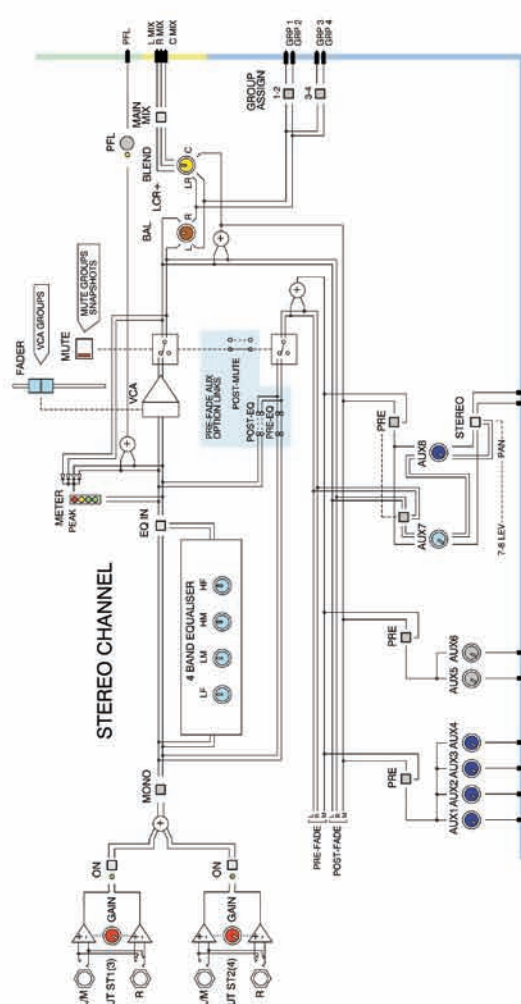
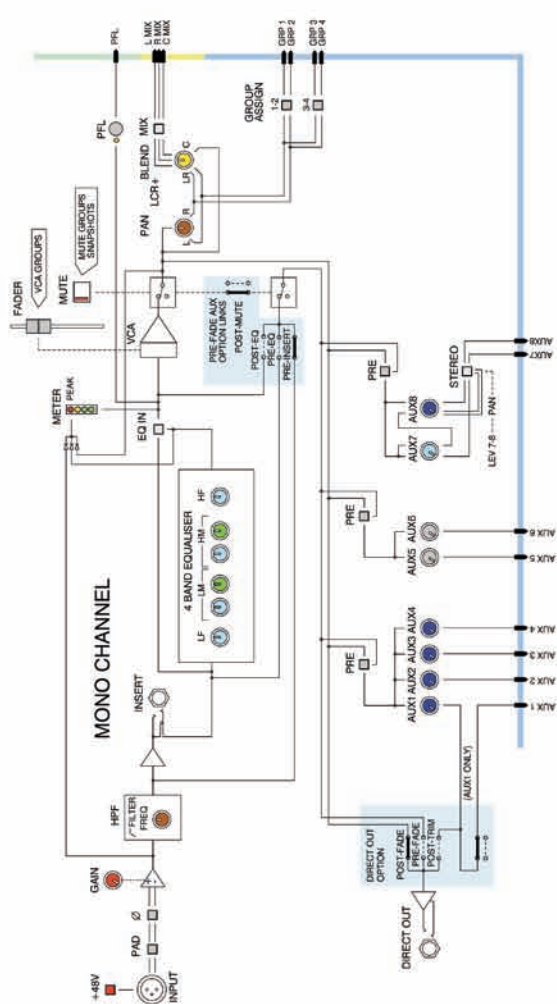
- PFL override AFL for quick input/output monitoring
- Fader driven engineers listen wedge feed with insert in monitor mode
- Simultaneous LED bar and moving coil VU metering of all main outputs and P/AFL
- Channel meters
- Separate stereo headphones and local monitor control
- LCR to stereo engineers monitor capability
- 1kHz oscillator / pink noise generator
- Preamp input capability for mic or line up to +30dBu
- Main, group, aux and matrix outputs on balanced XLR
- 4-pin XLR lamp sockets – **ALLEN & HEATH** LEDlamp available
- Uses RPS11 high performance external linear power supply
- Optional RPSD2 dual supply combiner to link another RPS11 for backup
- Optional Sys-Link V2 input/output option to link consoles for more channels
- Internal aux jumper options for pre-insert, pre/post-EQ, pre/post-mute settings
- Internal direct output jumper options for pre/post-fade or to use aux 1 level trim







ML3000



GL3800

The GL3800 features an enhanced capability for the latest in live sound mixing, and is truly dual-function with all 10 auxes configurable to fader control with insert point and XLR drive. Available in frame sizes up to 48 channels, with the choice of all mono, 4 or 8 stereo channels, the mixer also includes a meterpod with illuminated VU's, and front and rear ident strips.



FEATURES

- 24, 32, 40, and 48 channel frames
- A,B,C,D mono/stereo channel options
- LR and M main mixes
- 8 Audio groups with pan and routing to LR and M
- 10 Auxes including a dedicated stereo send with level and pan controls
- 2 multi-function stereo channels each with mic and stereo line inputs
- 2 extra dual stereos provide 4 summed or independent stereo returns
- Fully featured 12x4 Matrix
- Proper dual functionality for front-of-house, monitor mixing, or both
- Recording capable with channel direct outputs
- M can be used for centre/sub mix, LR mono sum, or engineers wedge
- Matrix external inputs with level trims and common input capability
- Stereo channel mic inputs can cross patch into matrix for ambience feed
- Responsive 4 band, 2 sweep EQ
- 100Hz channel high pass filters
- Individual phantom power and polarity switching
- Integral meterpod with 11 LED-illuminated, moving coil VU meters
- Wide angle LED channel and master meters
- Dedicated stereo monitor meters
- Per channel pre/post fader aux switching for full flexibility
- Front panel pre/post-EQ switches for user preference
- Mutes on all fader masters
- 100mm premium grade dual rail faders as used on the top-of-the-range ML Series

GL3800 is a large format, dual function, LR, M, 8 group, 10 aux, 12x4 matrix console. Frame sizes range from 24 to 48 channels, with A,B,C,D options for more stereo channels.

This great sounding, well featured console has a familiar, walk-up-and-go layout and responsive feel, giving the engineer the very best of analogue console engineering.

A = all mono channels
B = 4 stereos to right of masters
C = 4 stereos on far right side
D = 8 stereos on far right side



- Assignable talkback to all outputs, includes a talk switch latch mode
- 1kHz oscillator / pink noise generator with patchable external output
- 2-track monitoring and replay to LR
- 3 headphones/earpiece sockets and local monitor outputs
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp 74dB range with +34dBu input capability for mic or line
- Ultra low noise mix head amp design
- Uses RPS11 high performance, external linear power supply
- Built-in combiner for redundant backup supply
- Individual circuit card assembly with nutted pots
- Sys-Link V2 console input/output linking option
- 4-pin XLR lamp sockets – **ALLEN & HEATH** LEDlamp available

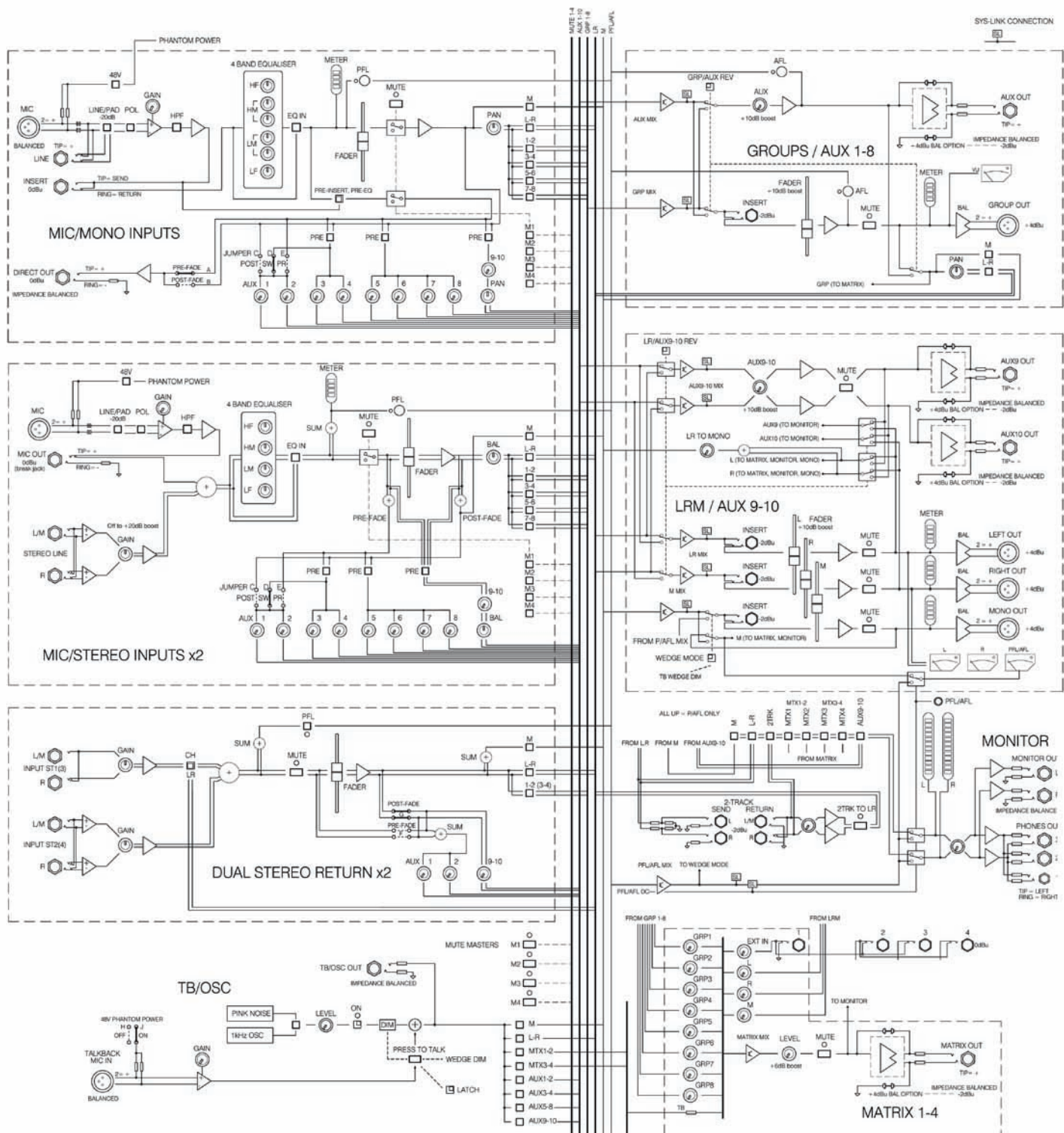




15 16

8

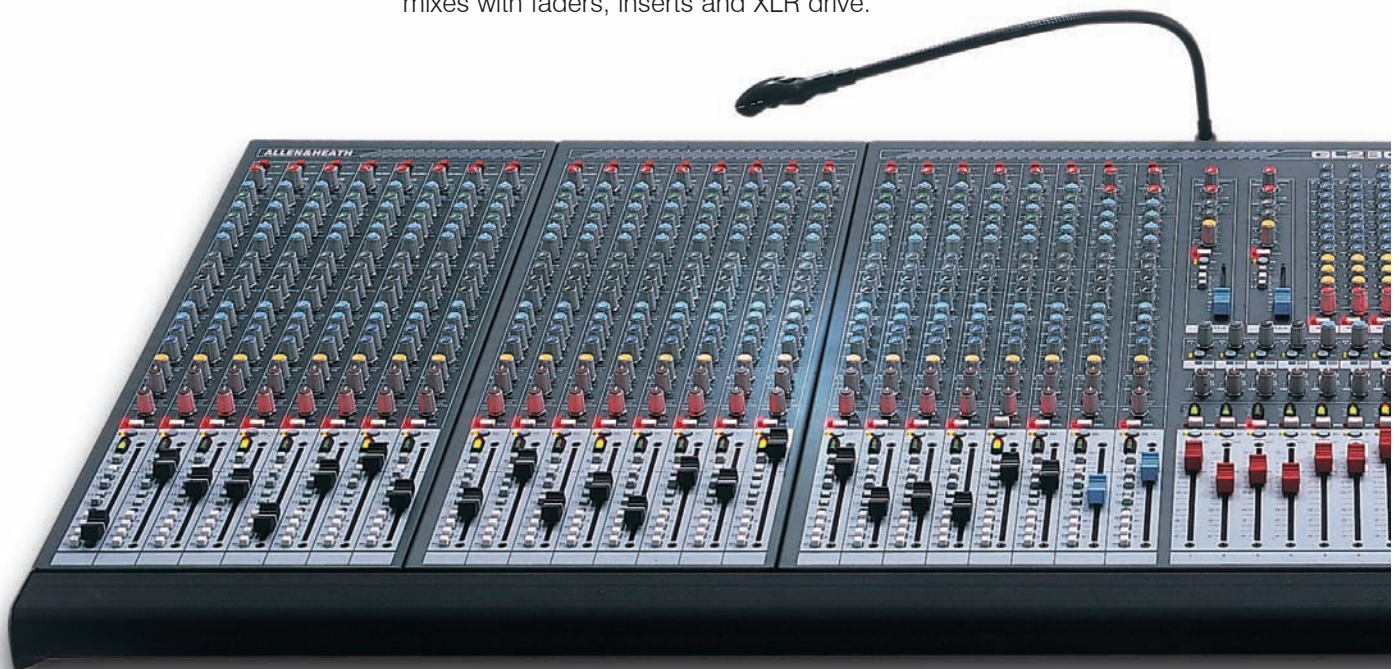
GRP 1	2	3	4	5	6	7	8	L	R	M	17	18
AUX 1	2	3	4	5	6	7	8	9	10	LISTEN WEDGE		



GL3800

GL2800

This classic dual function mixer offers a well thought out feature set built into a rugged, small footprint chassis ideal for flight casing and venue installation where space is tight. Uniquely at this level, the GL2800 is equipped with 10 auxiliary sends - including a dedicated stereo aux - and using the 12x4 matrix, provides the ideal solution for IEM and stereo recording. 8 audio groups and L,R and M busses are also provided, allowing for full dual functionality with 10 mixes with faders, inserts and XLR drive.



FEATURES

- 24, 32, 40, 48 and 56 channel frames
- LR and M main mixes
- 8 Audio groups with pan and routing to LR and M
- 10 Auxes including a dedicated stereo send
- 2 multifunction stereo channels each with mic and stereo line inputs
- 2 extra dual stereos provide 4 summed or independent stereo returns
- Fully featured 12x4 Matrix
- Proper dual functionality for FOH/Monitor mixing
- Recording capable with channel direct outputs
- M can be used for centre/sub mix, LR mono sum, or engineers wedge
- Matrix external inputs with level trims and common input capability
- Stereo channel mic inputs can cross patch into matrix for ambience feed
- Responsive 4 band, 2 sweep EQ
- 100Hz channel high pass filters
- Individual phantom power and polarity switching
- Wide angle channel and master meters
- Dedicated stereo monitor meters
- Per channel pre/post fader aux switching for full flexibility
- Internal jumper plugs for pre/post-EQ aux, direct out and other options
- Mutes on all fader masters



And at the heart of this design is the gain structure allowing a whopping 34dBu maximum input capability and a new ultra-quiet mix head amp section, delivering excellent audio performance.-

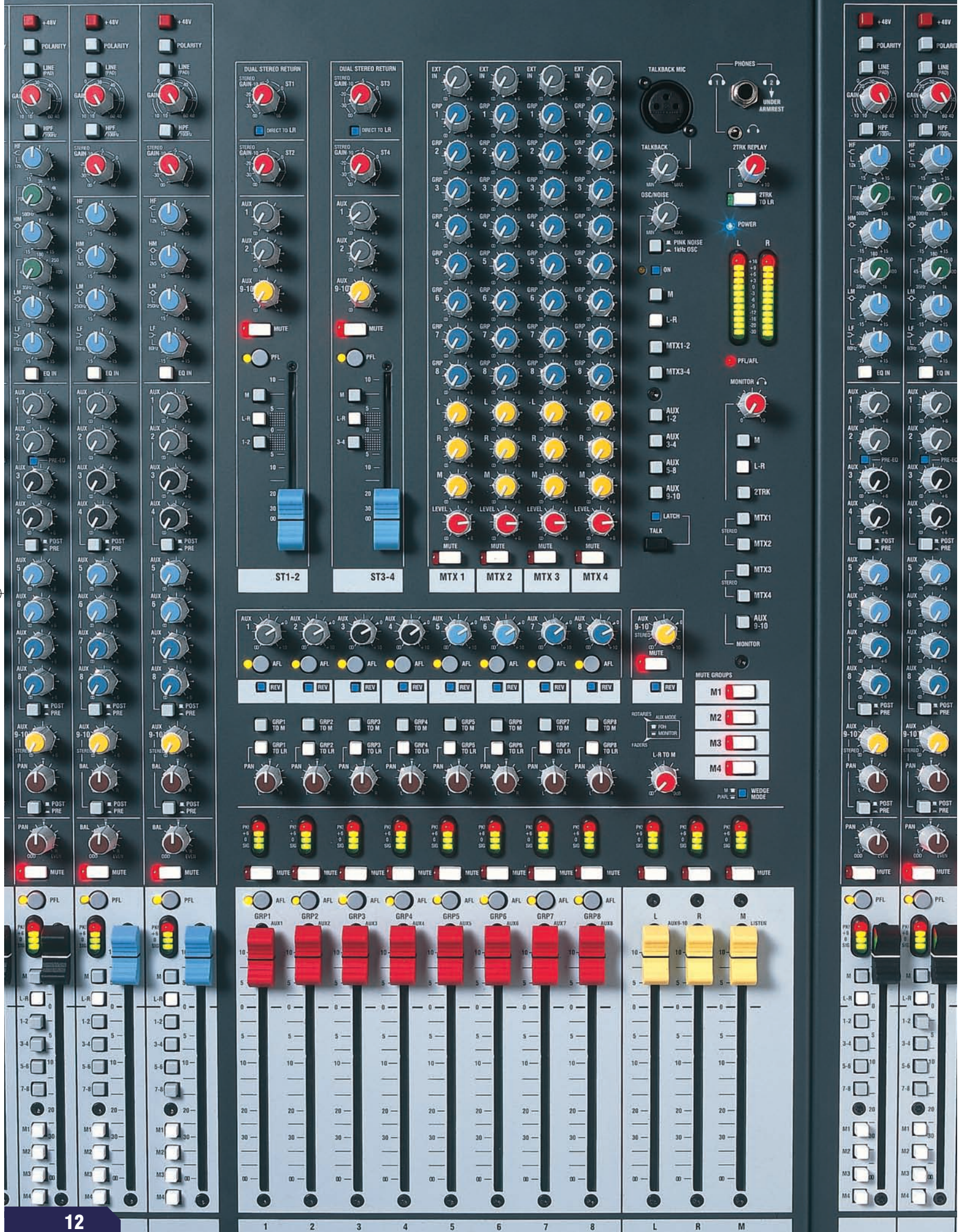
GL2800 is a compact, dual function, LR, M, 8 group, 10 aux, 12x4 matrix console. Frame sizes ranges from 24 to 56 channels including 2 stereo channels.

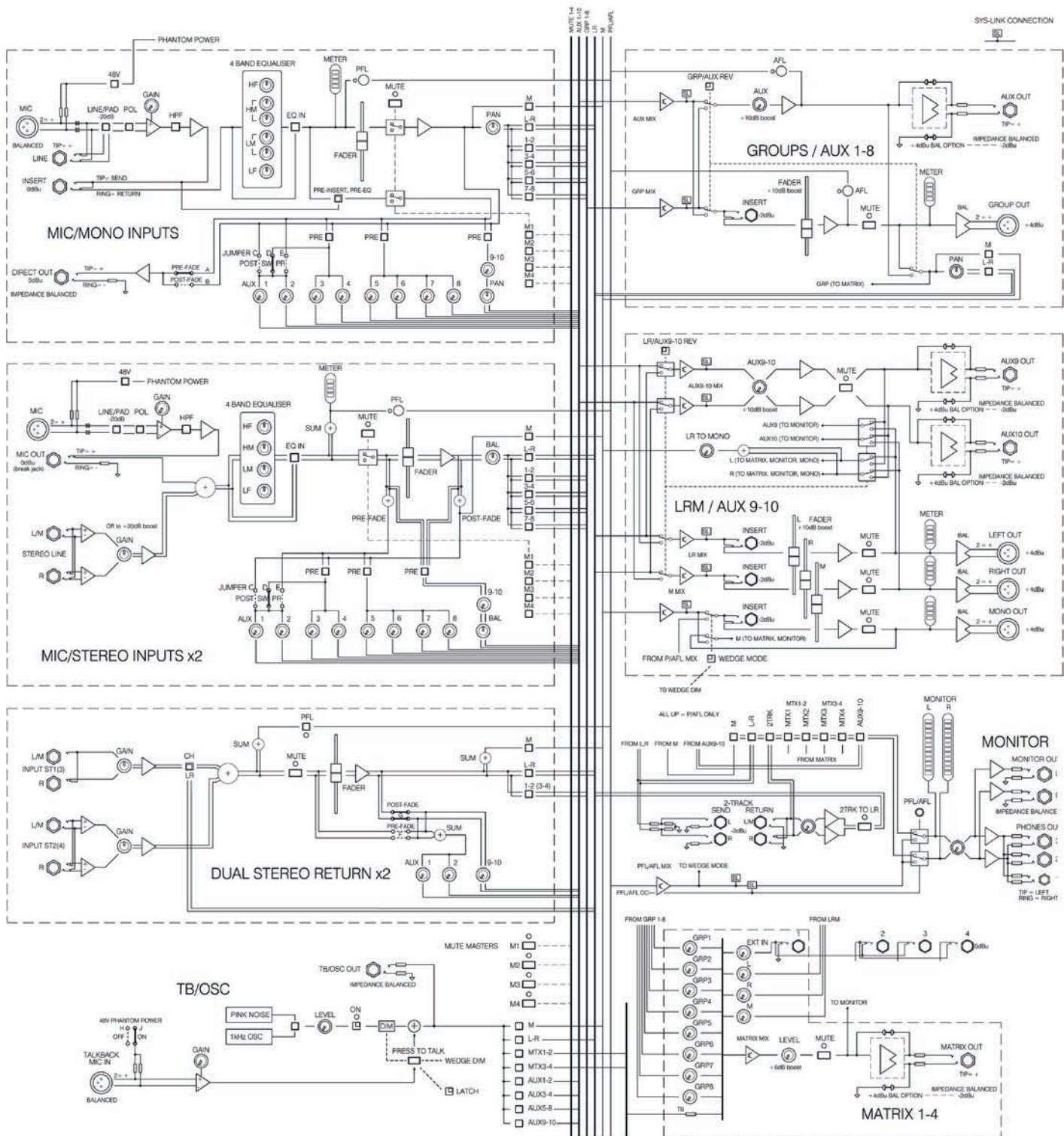


- Assignable talkback to all outputs, includes a talk switch latch mode
- 1kHz oscillator / pink noise generator with patchable external output
- 2-track monitoring and replay to LR
- 3 headphones/earpiece sockets and local monitor outputs
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp 74dB range with +34dBu input capability for mic or line
- Ultra low noise mix head amp design
- Uses RPS11 high performance external linear power supply
- Built-in combiner for redundant backup supply
- Individual circuit card assembly with nutted pots
- Sys-Link V2 console input/output linking option
- 4-pin XLR lamp sockets – **ALLEN & HEATH** LED lamp available



GL2800





GL2800

GL2400

The GL2400 is a mixing classic, industry standard in venues and hire stocklists across the globe. The ultimate 4 group dual-function mixer, the GL2400 is designed for the latest in modern engineering techniques, and every detail in this uniquely capable small footprint mixer has been carefully thought out to provide the very best mixing experience.



FEATURES

- 16, 24, 32, 40 channel frames
- LR and M main outputs
- 4 Audio groups with pan control
- 6 Auxiliary sends with per-channel pre/post fader switching
- 2 stereo channels each with mic and dual stereo line inputs
- 7x4 Matrix
- Proper dual functionality for FOH and/or Monitor mixing
- M can be configured as LR sum, wedge, or aux-fed sub or C master
- Recording capable with channel direct outputs
- Matrix external inputs with level trims and common input capability
- Stereo channel line inputs can be independently routed to LR
- Stereo channel mic input breakpoints for cross patching into matrix
- Responsive 4 band, 2 sweep EQ
- 100Hz high pass filters
- Individual phantom power and polarity switching
- Dedicated channel, master and stereo monitor meters
- Internal jumper plugs for pre/post-EQ aux, direct out and other options
- Mutes, meters and AFL on all fader masters
- Assignable talkback
- 1kHz oscillator and pink noise generator



Whether mixing FOH, monitors, or both, recording live or in the studio, installed in a busy or house of worship, out on the road touring or earning its keep in rental stock, the GL2400 provides the perfect solution.

GL2400 is a compact, dual function, LR, Mono sum, 4 group, 6 aux, 7x4 matrix console. Frame sizes range from 16 to 40 channels including 2 dual stereo channels.



- 2-track monitoring and replay to LR
- Headphones and local monitor outputs
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp 74dB range with +34dBu input capability for mic or line
- Ultra low noise mix head amp design
- Internal power supply with socket for MPS12 backup supply (16 to 32 channel models)
- External RPS11 power supply and socket for another RPS11 as backup (40 channel model)
- 100mm dust protected faders
- Individual circuit card assembly with nutted pots
- Sys-Link V2 console input/output linking option
- 4-pin XLR lamp sockets – **ALLEN & HEATH** LEDlamp available



GL2400

Channel 15 controls:

- 48V, POLARITY, LINE (PAD), GAIN, ST1, ST2, ST3, ST4, HF, HM, LM, LF, EQ IN, AUX 1-6, POST, PRE, PAN, BAL, MUTE, PFL, L-R, 1-2, 3-4, 10, 20, 30, 00.

Central GL2400 controls:

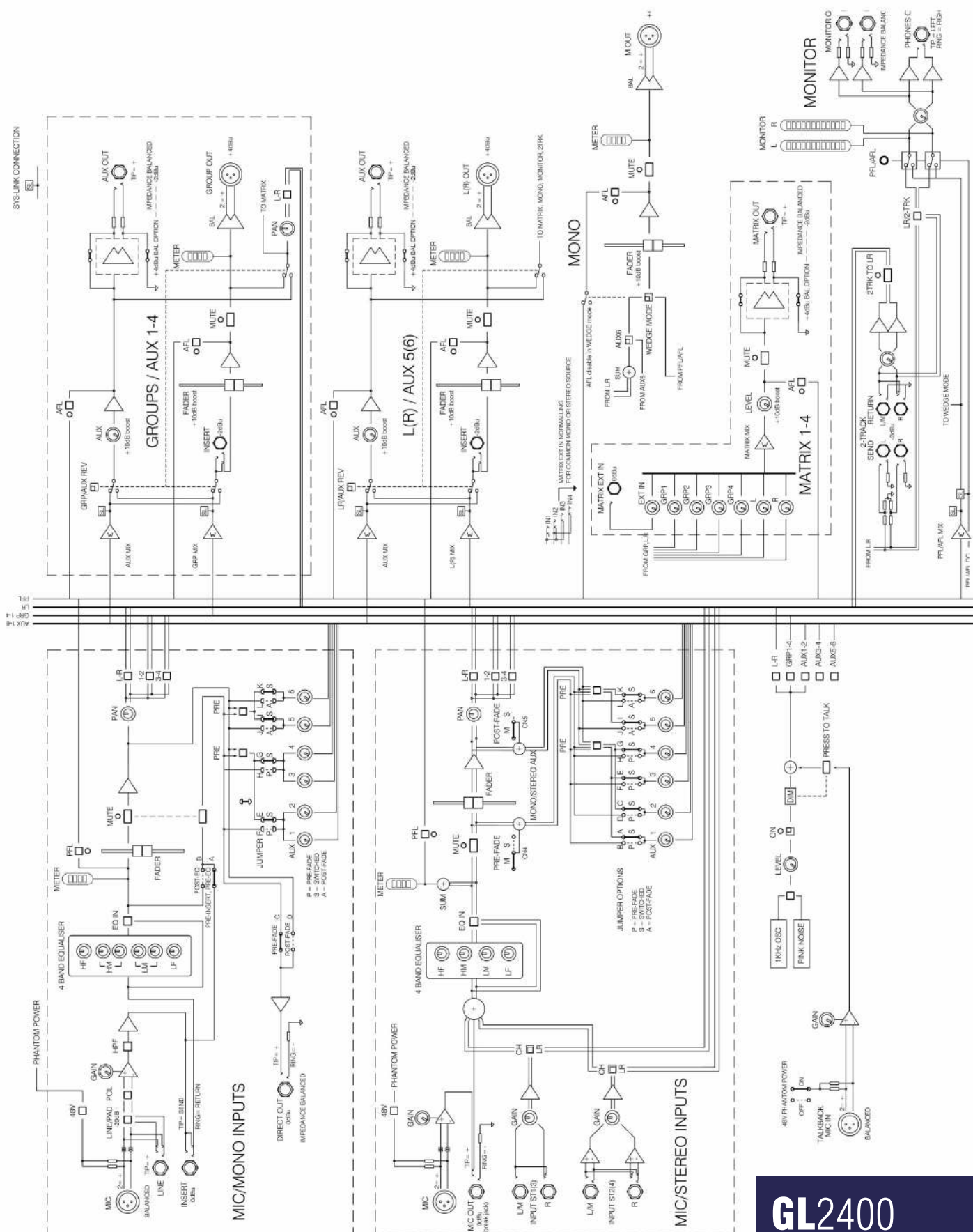
- EXT IN, GRP 1-4, LEVEL, MUTE, MTX 1-4, AFL, REV, GRP TO LR, PAN, PKI, SIG, M SOURCE, LISTEN WEDGE, MONO (L+R), AUX 6 (AUX FEO SUB).

Channel 16 controls:

- GRP1, GRP2, GRP3, GRP4, L, R, M, LISTEN, AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, PKI, SIG, 10, 5, 0, 5, 10, 20, 30, 00.

Channel 17 controls:

- Channel 17 controls: 48V, POLARITY, LINE (PAD), GAIN, HF, HM, LM, LF, EQ IN, AUX 1-6, POST, PRE, PAN, BAL, MUTE, PFL, L-R, 1-2, 3-4, 10, 20, 30, 00.

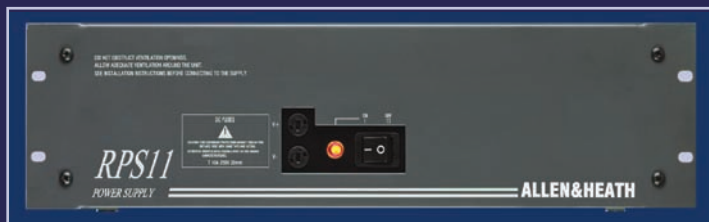


GL2400

Accessories

PSU FOR ML3000, GL3800, GL2800, GL2400, GL2400-40

The RPS11 is a rugged linear 300W 3U rack-mount power supply with DC cable. A second RPS11 can be connected through the RPSD2 Auto-Switching PSU, which monitors the console's power supply and allows silent switching between the two supplies



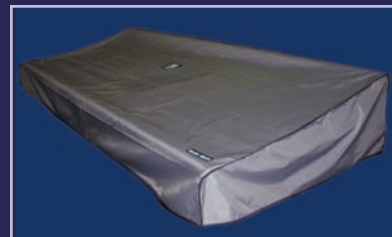
SOFTWARE

ML Archiver software is a Windows application that runs on a PC connected to your console.

It lets you access the 128 onboard snapshots, save the console settings and snapshot memories to a disk file, and is used to archive settings as a backup or for future recall

DUST COVER

A nylon cover that comes in various sizes, tailored to fit the **ML**'s differing frame dimensions



SYS-LINK - ML3000

The SYS-LINK V2 option allows the **ML3000** console to be easily linked to other **ALLEN & HEATH** consoles to expand the number of channels in the mix. Fitting requires the removal of connector blanking plates and the installation of two internal circuit cards

MECHANICAL SPECIFICATIONS

ML Consoles	A mm(")	B mm(")	C mm(")	D mm(")	Weight kg(lb)	
ML3000-24	252 (10)	640 (25)	110 (4)	1141 (45)	30 (66)	
ML3000-32	252 (10)	640 (25)	110 (4)	1396 (55)	40 (88)	
ML3000-40	252 (10)	640 (25)	110 (4)	1651 (65)	50 (110)	
ML3000-48	252 (10)	640 (25)	110 (4)	1906 (75)	60 (132)	
GL Consoles	A mm(")	B mm(")	C mm(")	D mm(")	Weight kg(lb)	
GL2400-416	150 (6)	560 (22)	57 (2)	609 (24)	17 (36)	
GL2400-424	150 (6)	560 (22)	57 (2)	817 (32)	22 (47)	
GL2400-432	150 (6)	560 (22)	57 (2)	1025 (40)	27 (58)	
GL2400-440	150 (6)	560 (22)	57 (2)	1233 (49)	32 (69)	
GL2800-824	170 (7)	650 (26)	62 (2)	944 (37)	29 (64)	
GL2800-832	170 (7)	650 (26)	62 (2)	1171 (46)	35 (77)	
GL2800-840	170 (7)	650 (26)	62 (2)	1398 (55)	41 (90)	
GL2800-848	170 (7)	650 (26)	62 (2)	1625 (64)	47 (103)	
GL2800-856	170 (7)	650 (26)	62 (2)	1852 (73)	53 (117)	
GL Consoles	A mm(")	B mm(")	C mm(")	D mm(")	Weight kg(lb)	
GL3800-824	275 (11)	691 (27)	78 (3)	1026 (40)	33 (73)	
GL3800-832	275 (11)	691 (27)	78 (3)	1281 (50)	42 (92)	
GL3800-840	275 (11)	691 (27)	78 (3)	1536 (60)	51 (112)	
GL3800-848	275 (11)	691 (27)	78 (3)	1791 (71)	60 (132)	

CONNECTIONS

XLR Inputs	Female	Pin2 = +ve polarity	Pin3 = -ve polarity	Pin1 = ground	Chassis = chassis
XLR Outputs	Male	Pin2 = +ve polarity	Pin3 = -ve polarity	Pin1 = ground	Chassis = chassis
1/4" TRS Jacks					
Balanced Input, Insert Return	TRS	Tip = +ve polarity	Ring = -ve polarity	sleeve = ground/chassis	
Balanced Output, Insert Send	TRS	Tip = +ve polarity	Ring = -ve polarity	sleeve = ground/chassis	
Insert (unbalanced)	TRS	Tip = send signal	Ring = return signal	sleeve = ground/chassis	
Unbalanced Input	TRS	Tip = signal	Ring = ground	sleeve = ground/chassis	
RCA Phono	Socket	Tip = signal		Outer = ground/chassis	

LED LAMP

ALLEN & HEATH also manufactures LEDlamp, an 18" 4 pin XLR gooseneck console lamp containing a built-in thumbwheel dimmer. The stylish lamp replaces traditional filament console lamps with more user friendly cool white light, and has the additional advantages of lower heat discharge and longer life



Accessories

PSU (back-up) FOR GL2400-16, 24 & 32

The MPS12 is a back-up power supply which connects via an internal socket to the existing built-in power supply. An optional rack mount face plate is provided



SYS-LINK - (all GL Series)

The Sys-Link V2 option allows **GL** mixers to be easily linked to other **ALLEN & HEATH** consoles to expand the number of channels in the mix. Fitting requires the removal of connector blanking plates and the installation of internal circuit cards

DUST COVER - all GL Series

A nylon cover that comes in various sizes, tailored to fit the **GL**'s various frame dimensions

TECHNICAL SPECIFICATIONS

	ML3000	GL3800	GL2800	GL2400
OPERATING LEVELS				
Channels	0dBu, +21dB Headroom	0dBu, +20dB Headroom	0dBu, +20dB Headroom	0dBu, +20dB Headroom
Mix	-2dBu, +23dB Headroom	-2dBu, +22dB Headroom	-2dBu, +22dB Headroom	-2dBu, +22dB Headroom
Main Outputs	0dBu	+4dBu	+4dBu	+4dBu
Maximum output	+23dBu	+26dBu	+26dBu	+26dBu
Mic Pre-Amp Sensitivity	-60 to +10dBu	-60 to +14dBu	-60 to +14dBu	-60 to +14dBu
FREQUENCY RESPONSE (20Hz-30kHz)				
Mic to Main output (+40 dB)	+0/-0.5dB	+0/-0.5dB	+0/-0.5dB	+0/-0.5dB
Line to Main output (0dB)	+0/-0.5dB	+0/-0.5dB	+0/-0.5dB	+0/-0.5dB
DISTORTION at 1kHz +14dBu out				
THD + Noise (mic in +40dB gain)	<0.01%	<0.003%	<0.003%	<0.004%
THD + Noise (line in 0dB gain)	<0.01%	<0.005%	<0.005%	<0.006%
COMMON MODE REJECTION @1kHz				
Mic Input +40dB gain	>80dB	>85dB	>85dB	>80dB
Mic Input with Pad 0dB gain	>50dB	>55dB	>55dB	>55dB
CROSSTALK @1kHz				
Adjacent Channel	<-95dB	<-97dB	<-97dB	<-93dB
Mute Shutoff	<-90dB	<-88dB	<-88dB	<-94dB
Fader Shutoff	<-90dB	<-90dB	<-90dB	<-90dB
NOISE PERFORMANCE				
Mic EIN with 150ohm source (22Hz-22kHz unweighted)	-128dB	-128dB	-128dB	-128dB
Residual output noise - main outputs	<-98dBu	<-98dBu	<-98dBu	<-98dBu
Main Mix noise (nothing routed)	<-94dBu	<-91dBu	<-91dBu	<-92dBu
Main Mix noise (24 channels routed)	<-82dBu (82dB S/N)	<-86dBu (90dB S/N)	<-86dBu (90dB S/N)	<-86dBu (90dB S/N)
CONNECTION IMPEDANCES				
Mic Inputs	22k ohms	2k ohms	2k ohms	2k ohms
Line Inputs	>10k ohms	>10k ohms	>10k ohms	>10k ohms
Outputs	<75 ohms	<75 ohms	<75 ohms	<75 ohms
EQUALISATION				
Gain (each band)	+/- 15dB	+/- 15dB	+/- 15dB	+/- 15dB
Mono Channel Low Frequency	Shelf 60Hz	Shelf 80Hz	Shelf 80Hz	Shelf 80Hz
Mono Channel Low Mid Frequency	35Hz - 1kHz Q=2	35Hz - 1kHz Q=1.8	35Hz - 1kHz Q=1.8	35Hz - 1kHz Q=1.8
Mono Channel High Mid Frequency	500Hz-15kHz Q=2	500Hz-15kHz Q=1.8	500Hz-15kHz Q=1.8	500Hz-15kHz Q=1.8
Mono Channel High Frequency	SShelf 12kHz	SShelf 12kHz	SShelf 12kHz	SShelf 12kHz
Stereo Channel Frequencies	60Hz-250Hz 2.5kHz 12kHz Q=1.8	60Hz-250Hz 2.5kHz 12kHz Q=1.8	60Hz-250Hz 2.5kHz 12kHz Q=1.8	60Hz-250Hz 2.5kHz 12kHz Q=1.8
Filter (mono input)	SSwept Off - 400Hz	Switch 100Hz	Switch 100Hz	Switch 100Hz
METERING				
Reading referred to Main outputs	00VU = 0dBu	00VU = +4dBu	00VU = +4dBu	00VU = +4dBu
Peak indication threshold	5dB before clipping	5dB before clipping	5dB before clipping	5dB before clipping
SYSTEM				
Lamp connectors	3 x 4pin XLR-F	2 x 4pin XLR-F	2 x 4pin XLR-F	up to 2 x 4pin XLR-F
Power supply	RPS11	RPS11	RPS11	Internal (16, 24, 32)