GL 2400

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.

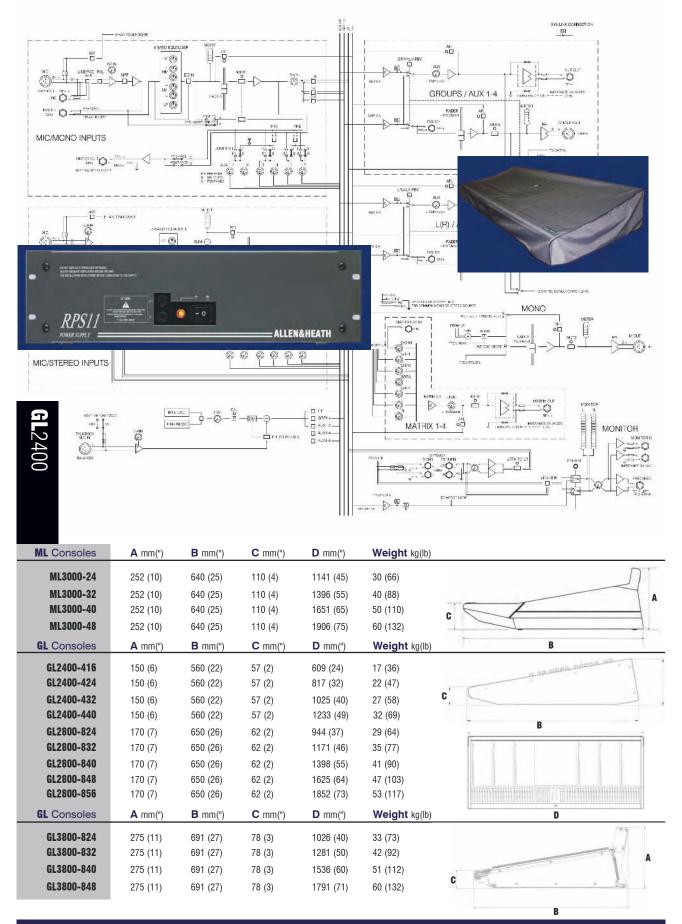


- > 2-track monitoring and replay to LR
- Headphones and local monitor outputs
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp 74dB range with +34dBu input capability for mic or line
- > Ultra low noise mix head amp design
- Internal power supply with socket for MPS12 backup 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







CONNECTIONS

XLR Inputs XLR Outputs	Female Male	Pin2 = +ve polarity Pin2 = +ve polarity	Pin3 = -ve polarity Pin3 = -ve polarity	Pin1 = ground Pin1 = ground	Chassis = chassis 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	

TECHNICAL SPECIFICATIONS

	ML3000	GL3800	GL2800	GL2400
OPERATING LEVELS				
Channels Mix Main Outputs Maximum output Mic Pre-Amp Sensitivity	OdBu, +21dB Headroom -2dBu, +23dB Headroom OdBu +23dBu -60 to +10dBu	OdBu, +20dB Headroom -2dBu, +22dB Headroom +4dBu +26dBu -60 to +14dBu	OdBu, +20dB Headroom -2dBu, +22dB Headroom +4dBu +26dBu -60 to +14dBu	OdBu, +20dB Headroom -2dBu, +22dB Headroom +4dBu +26dBu -60 to +14dBu
FREQUENCY RESPONSE (20Hz-30kHz)				
Mic to Main output (+40 dB) Line to Main output (0dB)	+0/-0.5dB +0/-0.5dB	+0/-0.5dB +0/-0.5dB	+0/-0.5dB +0/-0.5dB	+ 0/-0.5dB + 0/-0.5dB
DISTORTION at 1kHz +14dBu out	0.040	0.000%	0.000%	0.00.00/
THD + Noise (mic in +40dB gain) THD + Noise (line in 0dB gain)	<0.01% <0.01%	<0.003% <0.005%	<0.003% <0.005%	<0.004% <0.006%
COMMON MODE REJECTION @1kHz				
Mic Input +40dB gain Mic Input with Pad 0dB gain	>80dB >50dB	>85dB >55dB	>85dB >55dB	>80dB >55dB
CROSSTALK @1kHz				
Adjacent Channel Mute Shutoff Fader Shutoff	<-95dB <-90dB <-90dB	<-97dB <-88dB <-90dB	<-97dB <-88dB <-90dB	<-93dB <-94dB <-90dB
NOISE PERFORMANCE				
(22Hz-22kHz unweighted)				
Mic EIN with 150ohm source Residual output noise - main outputs Main Mix noise (nothing routed) Main Mix noise (24 channels routed)	-128dB <-98dBu <-94dBu <-82dBu (82dB S/N)	-128dB <-98dBu <-91dBu <-86dBu (90dB S/N)	-128dB <-98dBu <-91dBu <-86dBu (90dB S/N)	-128dB <-98dBu <-92dBu <-86dBu (90dB S/N)
CONNECTION IMPEDANCES				
Mic Inputs Line Inputs Outputs	22k ohms >10k ohms <75 ohms	2k ohms >10k ohms <75 ohms	2k ohms >10k ohms <75 ohms	2k ohms >10k ohms <75 ohms
EQUALISATION				
Gain (each band) Mono Channel Low Frequency Mono Channel Low Mid Frequency Mono Channel High Mid Frequency Mono Channel High Frequency Stereo Channel Frequencies Filter (mono input)	+/- 15dB Shelf 60Hz 35Hz - 1kHz Q=2 500Hz-15kHz Q=2 SShelf 12kHz 60Hz,250Hz,2.5kHz,12kHz Q=1.8 SSwept Off - 400Hz	+/- 15dB Shelf 80Hz 35Hz - 1kHz Q=1.8 500Hz-15kHz Q=1.8 Shelf 12kHz 60Hz,250Hz,2.5kHz,12kHz Q=1.8 Switch 100Hz	+/- 15dB Shelf 80Hz 35Hz - 1kHz Q=1.8 500Hz-15kHz Q=1.8 Shelf 12kHz 60Hz,250Hz,2.5kHz,12kHz Q=1.8 Switch 100Hz	+/- 15dB Shelf 80Hz 35Hz - 1kHz Q=1.8 500Hz-15kHz Q=1.8 Shelf 12kHz 60Hz,250Hz,2.5kHz,12kHz Q=1.8 Switch 100Hz
METERING		0\//1 4-10	0\/	
Reading referred to Main outputs Peak indication threshold	00VU = 0dBu 5dB before clipping	0VU = +4dBu 5dB before clipping	0VU = +4dBu 5dB before clipping	0VU = +4dBu 5dB before clipping
SYSTEM				
Lamp connectors Power supply	3 x 4pin XLR-F RPS11	2 x 4pin XLR-F RPS11	2 x 4pin XLR-F RPS11	up to 2 x 4pin XLR-F Internal (16, 24, 32)

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



SOFT WARE

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





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

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 exisiting 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