

GL4000

true VERSATILITY

DUAL FUNCTIONALITY

PLUS RECORDING



*...you never have to
say no again*

WE FIRST INTRODUCED THE
AFFORDABLE DUAL FUNCTION CONSOLE
OVER SIX YEARS AGO.

SINCE THEN THE VERSATILITY TO USE
JUST ONE CONSOLE FOR BOTH FRONT-OF-HOUSE
SOUND AND ON-STAGE MONITOR SOUND RULES
EVERY DECISION. NOW WITH THE GL4000
WE HAVE ADDED LIVE RECORDING TO THE TOOL
SET. AN INDEPENDENT SUB FUNCTION THAT GETS
ON AND DOES ITS JOB WHILE YOU DO YOURS.

ENGINEERS GET A CONSOLE THAT IS SUPREME
ADAPTABLE TO EVERY LIVE APPLICATION WHILE
THE PA RENTAL COMPANIES GET A PRODUCT THAT
WORKS FOR ITS LIVING EVERY DAY OF THE WEEK.

ALLEN
&
HEATH

DUAL FUNCTION

- 8 Group Front-of-House console
- 12 Mix On-Stage Monitor console
- Simultaneous FOH and OSM console
- Independent MIDI Mute Automation System

LIVE RECORDING

- 'Hands Free' Multitrack Recording
- Video, Broadcast, Mono and 2 track Recording

EXPANDABILITY

- Electronically Expandable using SYS-LINK™
- Mechanically Expandable using Modules

- 4 Band Switched Q, Parametric EQ
- Extremely Low Residual Noise Floor (-98dBu)
- Ultra Quiet Precision Mic Pre-Amp (EIN - 128dB)

- Extruded Aluminium Beam Construction
- Lightweight Box Section Design
- Vertically Mounted PCBs

versatility

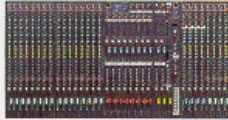
sound

strength

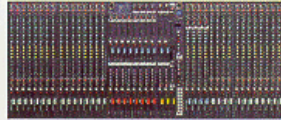
WHEN YOU'RE MIXING WITH PROFESSIONALS

specifications

GL4000



GL4000 - 824S - 24 Channel



GL4000 - 832S - 32 Channel



GL4000 - 840S - 40 Channel



GL4000 - 848S - 48 Channel

FEATURES SUMMARY

- Dual Function *plus* Recording capability :
- Dedicated Large venue Front-of-House
- Dedicated 12 buss (10 mix + LR) On-Stage Monitor
- Simultaneous Front-of-House and On-Stage Monitor
- Live Multitrack Recording, Mono and 2-track
- SYS-LINK™ expandability
- Bolt-on Module expandability
- 8 Subgroups with inserts
- 10 Auxiliary sends with inserts
- L,R,M mix outputs with inserts
- 12 x 4 Matrix with insert capability
- Matrix to aux Link Switch
- Channel Direct outputs with level trim
- Level Trim subgroup XLR outputs
- Stereo channel 4-point width control
- Secondary LR output
- Separate balanced send and return insert jacks
- Solo-in-place with A&H 'QuickSolo'
- 8 Independent Mute Groups
- MIDI mute system with 128 patches
- 2-track replay to LR and monitor
- Talkback to L-R, M, groups, matrix, and to each aux
- Full metering - channel, mix buss and outputs.
- Output source meter selector
- Stereo PFL monitoring
- Local speaker monitor output
- 2 Headphone outputs
- 12V 4 Pin XLR *Little* connections

OPTIONS

EXPANDER

- GL4000 - 8M - 8 Mono channels expander
- GL4000 - 4SM - 4 stereo, 4 mono expander

SYS-LINK

- GL4000 - SL - SYS-LINK expander option

POWER SUPPLY

- RPS 11 - 300W rack power unit with DC cable
- RPSD2 - Dual supply combiner/monitor

FLIGHT CASE

This industrial, hard wearing design will ensure your console will be protected from serious transit damage.

CONNECTIONS

INPUT CONNECTIONS

MIC/LINE INPUT	XLR BALANCED (1 GRD, 2 +, 3 -)
LINE INPUT	JACK BALANCED (TP +, RING -)
INSERT RETURN	JACK BALANCED (TP +, RING -)
2-TRACK RETURN	JACK UNBALANCED (TP +, RING GRD)

INPUT IMPEDANCE

MIC	> 2k ohm BALANCED
LINE INPUT	> 10k ohm BALANCED
STEREO LINE INPUT	> 10k ohm BALANCED
INSERT RETURN	> 10k ohm BALANCED
2-TRACK RETURN	> 7k ohm UNBALANCED

INPUT GAIN

MIC	+6dB TO +60dB VARIABLE
MIC/LINE + P40	+4dB TO +40dB VARIABLE
LINE INPUT	+4dB TO +40dB VARIABLE
STEREO LINE INPUT	OFF TO +10dB VARIABLE
INSERT RETURN	Sub
2-TRACK RETURN	OFF TO +10dB VARIABLE

MAXIMUM INPUT LEVEL

MIC/LINE INPUT	+15dBu
MIC/LINE + P40	+35dBu
LINE INPUT	+35dBu
STEREO LINE INPUT	+21dBu
2-TRACK RETURN	+35dBu

OUTPUT CONNECTIONS

MAIN OUTPUTS	XLR BALANCED (1 GRD, 2 +, 3 -)
DIRECT OUTPUTS	JACK IMPEDANCE BALANCED (TP +, RING -)
INSERT SEND	JACK IMPEDANCE BALANCED (TP +, RING -)
MATRIX OUTPUT	JACK IMPEDANCE BALANCED (TP +, RING -)
LR2 OUTPUT	JACK IMPEDANCE BALANCED (TP +, RING -)
LOCAL MONITOR	JACK IMPEDANCE BALANCED (TP +, RING -)
HEADPHONES MONITOR	JACK UNBALANCED (TP L, RING R)

OUTPUT IMPEDANCE

MAIN OUTPUTS	< 75 ohm
DIRECT OUTPUTS	< 50 ohm
HEADPHONE OUTPUT	TO EARNE > 8 ohm
INSERT SEND	< 50 ohm

MAXIMUM OUTPUT LEVEL

MAIN OUTPUTS	+27dBu INTO BALANCED LOAD OF >500 ohm
JACK OUTPUTS	+21dBu INTO LOAD OF >2k ohm

OPERATING LEVELS

MAIN OUTPUTS	+4dBu
JACK OUTPUTS	0dBu
INTERNAL OPERATING LEVEL	+28dBu
INTERNAL HEADROOM	+23dB
CHANNEL INSERTS	0dBu
OUTPUT INSERTS	+28dBu

PERFORMANCE

DISTORTION THD - NOISE MEASURED @ 1kHz +20dBu

MIC TO MIX (+40dB)	0.005%
LINE TO MIX (+0dB)	0.005%

CROSSTALK REFERRED TO DRIVEN CHANNEL @ 1kHz

CHANNEL TO CHANNEL	>100dB
MUTE SHUTOFF	>50dB
FASTER SHUTOFF	>50dB

C.N.R. DOWNWARD NOISE REJECTION @ 1kHz

MIC (+40dB)	>80dB
LINE (+0dB)	>56dB

NOISE PERFORMANCE MEASURED rms 22Hz to 22kHz BANDWIDTH

MIC IN	-128dB 150ohm SOURCE
LINE PRE-AMP (40dB)	< 92dBu
FEEDBACK OUTPUT NOISE	< 95dBu (40dB S/N)
MIX NOISE, NOTHING ROUTED	< 87dBu (10dB S/N)
MIX NOISE, 24 CHANNELS ROUTED	< 80dBu (10dB S/N)

METERING

INPUT METERS	4 SEGMENT LED (SIGNAL, 0, +6, PEAK)
MIX METERS	4 SEGMENT LED (SIGNAL, 0, +6, PEAK)
OUTPUT METERS	12 SEGMENT LED
LED METER RESPONSE	PEAK HOLDING
PEAK INDICATORS	ON, 5dB BEFORE CLIPPING
SIGNAL INDICATORS	ON, 25dBu
OPTIONAL VU METERBRIDGE	ILLUMINATED VU MOVING COIL METERS

MECHANICAL

UNPACKED

	WIDTH	DEPTH	HEIGHT	WT
GL4000-824	1156	748	197	43 KG
GL4000-832	1421	748	197	52 KG
GL4000-840	1676	748	197	61 KG
GL4000-848	1931	748	197	70 KG
GL4000-8M	255	748	197	9 KG
METERBRIDGE	1156-1664	+56	+106	6 KG
RPS11	483 (19")	232	135 (5.3")	10 KG
RPSD2	483 (19")	180	45 (1.8")	4.5 KG

PACKED

	WIDTH	DEPTH	HEIGHT	WT
GL4000-824	1702	900	330	76 KG
GL4000-832	1702	900	330	84 KG
GL4000-840	1957	900	330	92 KG
GL4000-848	2212	900	330	122 KG
GL4000-8M	480	830	260	12 KG
METERBRIDGE	1290-1630	130	230	6.8 KG
RPS11	575	270	170	11 KG
RPSD2	520	260	115	6 KG



ALLEN & HEATH
Kemick Industrial Estate,
Penryn, Cornwall TR10 9LU.
Tel: (+44) 01326 372070
Fax: (+44) 01326 377097
http://www.allen-heath.com



AP2862

Allen & Heath reserve the right to improve or otherwise alter any information supplied in this document or any other documentation supplied hereafter



The GL4000 complies with the European Directives for Electromagnetic Compatibility 89/336/EEC & 92/31/EEC



A Division of Harman International Industries Limited