

GL4000



The **GL4000** is a true thoroughbred. Flexible and multi-tasking, this mixer is equipped to deal with any number of live sound and recording tasks.

Taking dual functionality to the extreme, this is a truly multi-functional console, offering features such as group output trims for recording, extended auxiliaries using matrix sends, multiple main outputs and trimmable direct outputs from channels - to mention just a few. The **GL4000** is indeed a true workhorse: classic **ALLEN & HEATH** sound with solid construction, expandable frame design and an array of channel format options - the Swiss Army Knife of mixers!

TOP FEATURES

Multi-Function Mixing

The **GL4000** has LR and M mixes, 8 groups, 10 aux sends and extensive mode switches in the master section - enabling this console to perform FOH, monitor, live recording duties, or any combination of these simultaneously.

Front of House

As a FOH console, **GL4000** offers 8 audio subgroups and LR & Mono main mixes, complemented by 10 auxiliary sends and 4 matrix outputs. To manage the system, 8 MIDI mute groups and 128 snapshots are provided in a comprehensive control system, which includes 'safes' and Solo-In-Place. Frame choices allow up to 8 stereo channels to be fitted, each providing a mic input to provide extra flexibility. You can work with stereo microphones by simply cross-patching between channels, allowing use of dedicated stereo coincident X-Y, spaced or M-S techniques. Our innovative stereo 4-point width control on stereo channels lets you narrow, reverse, mono or enhance your stereo image beyond basic LR balancing.

Monitors

As a monitor console, **GL4000** provides 10 independent monitor mix outputs on long-throw faders, plus stereo side-fill mix, all with insert points, comprehensive metering and XLR outputs. No professional monitor console is complete without an engineer's wedge output: **GL4000** provides this by switching the AFL/PFL system to the mono fader, giving familiar control in the right place and including insert point and XLR output. In this mode, the group mix continues to feed the sub-grouping to LR and the matrix, allowing the user to create additional group-sourced monitor mixes for applications such as IEM and recording.

Recording

Recording a live show can be particularly challenging, but the **GL4000** has many options to make this job easier. You can use the direct output with level trim from each channel for multi-track recording. If recording grouped inputs, the pre/post switchable group output trim facility allows the record signal to be fed pre the group fader, so that changes to the mix don't affect the record levels - particularly useful when trying to record and mix noisy backlines. The LR2 outputs make provision of a stereo recording or broadcast feed at a constant level possible by switching these outputs to be pre the main faders. Of course, the matrix system provides an array of further recording options.

Matrix

The flexibility and benefits of a matrix cannot be underestimated in today's console applications. The **GL4000** matrix excels with 4 matrix outputs, which are fed from the group and L,R,M outputs with a mode switch to allow an insert and balanced XLR output to be swapped from an aux if processing is needed on the matrix. The matrix mix can also be added to an auxiliary mix if required; this is ideal for providing quick monitor mixes from groups or LRM and lifting key inputs using channel sends, or for adding FX to grouped signals and ensuring the balance between the fx and the 'dry' signal is maintained as the group fader is adjusted - just like a VCA console.

Engineer's Toolbox

In true Swiss Army Knife fashion, there are many flexible tools to help fix difficult situations. The **GL4000** master section is bristling with under-panel mode switches to help get the most from the console in every situation. The comprehensive monitoring system with PFL and AFL, PFL trim, Solo-in-Place, and 'solo safe', has local and headphone outputs. Talkback allows independent communication to pre-selected outputs. A dedicated 2-track input is available for background music playback. LED bar meters are provided on mix amps and main outputs, as well as VU meters on all main outputs. And just to complete the functionality on the main outputs, a blend to Mono control is provided on the L and R outputs to create a quick centre-fill mix.

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FEATURES at a glance

- MULTI FUNCTIONALITY** mode switching front of house and/or stage monitor mixing, and live recording capability
- FRAMES** 24, 32, 40 or 48 channels with a choice of stereo configurations and expanders
- DUAL STEREO CHANNELS** available in zero, 4 or 8 stereo channels in a choice of positions. Mono mic and stereo line inputs, 4 point width control, MS mic capable
- 8 AUDIO GROUPS** with panned subgrouping to LR, routing to M, XLR outputs and full LED and VU metering
- 10 AUXILIARY SENDS** fader masters, inserts and XLR outputs on all sends, aux 10 direct out trim mode
- 11x4 MATRIX** fed from the groups and LR & M busses. Aux link switches feed the matrix into the aux busses for expanded sends from console inputs, groups and main mixes
- LR2 OUTPUT** second LR output with pre/post fader selection and level trim. Can reverse its TRS output with aux 9-10 XLR and insert
- 8 MUTE GROUPS** easy to edit, single key press mute group
- EQ** 4 band, 4 sweep with switched Q on midrange; swept 20-400Hz HPF
- BALANCED XLR & INSERTS** gold plated XLR connectors and inserts on separate send and return jacks
- PAFL AND QUICK SOLO** PFL override AFL, PFL level trim, stereo input PFL, protected solo-in-place mode with safes and toggle last solo
- TRIM POTS** channel direct outputs and group outputs have pre/post and trim controls for recording
- 128 MUTE PATCHES** show automation of mute 'scenes' with MIDI interface and safes function
- TALKBACK** to any of groups, auxes, matrix, LR and M outputs
- 2-TRACK REPLAY** to LR and M
- ENGINEER'S TOOLBOX** 2 headphone outputs, wedge and local monitor controls, extensive VU and LED metering, 2-trk, LR & C monitor selection with mono check
- 2 LAMP SOCKETS** on XLR connectors, located in master section
- CONFIGURATION OPTIONS** internal jumper options to configure pre-fade auxes, direct output, pre-fade matrix sends and TB mic 48V to configure, pre/post direct out, pre/post EQ/pre-insert for the pre-fader source. Isolate pre-fade from channel mute

SYS-LINK option

The Sys-Link V1 option allows the GL4000 console to be easily linked to other Sys-Link capable 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



DUST COVER

A nylon cover that comes in various sizes, tailored to fit the GL4000's differing frame dimensions



POWER SUPPLY

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 the backup PSU to take over in the event of a fault occurring



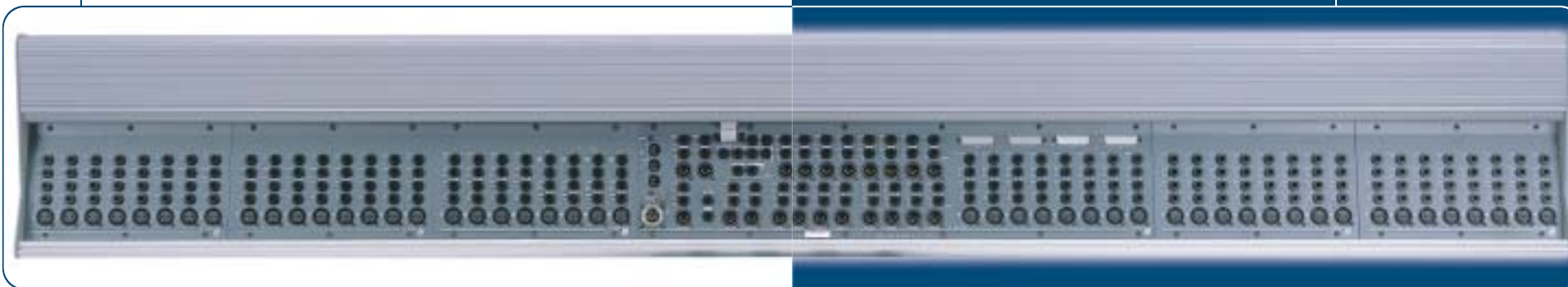
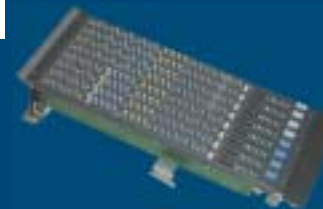
LED LAMP

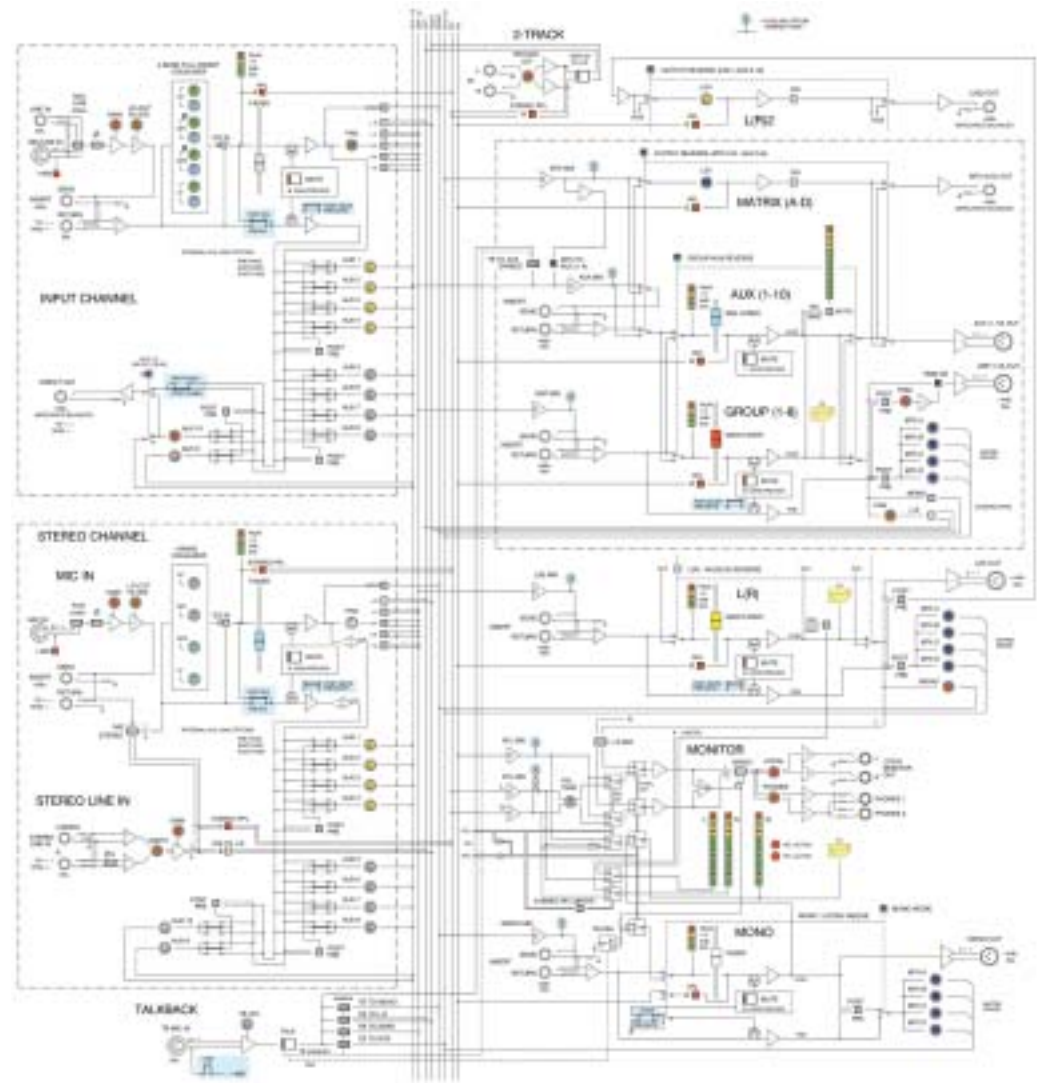
ALLEN HEATH also manufactures LEDlamp, an 18" 4 pin XLR gooseneck console lamp containing a built-in thumbwheel dimmer. The stylish lamp replaces traditional filament console lamps with more user friendly cool white light, and has the additional advantages of lower heat discharge and longer life



EXPANDER

GL4000 expander options are designed to attach to either side of the GL4000 console depending on console format. The expander modules allow a GL4000 console to be expanded up to a maximum of 48 channels and are available with 8 mono, 4 stereo/4 mono or 8 stereo channels





GL4000
System Block Diagram