

# GL3000

WHEN YOU'RE  
MIXING WITH  
PROFESSIONALS



ALLEN  
&  
HEATH

8 Groups  
8 Auxiliaries  
Front-of-House  
and Monitor Console

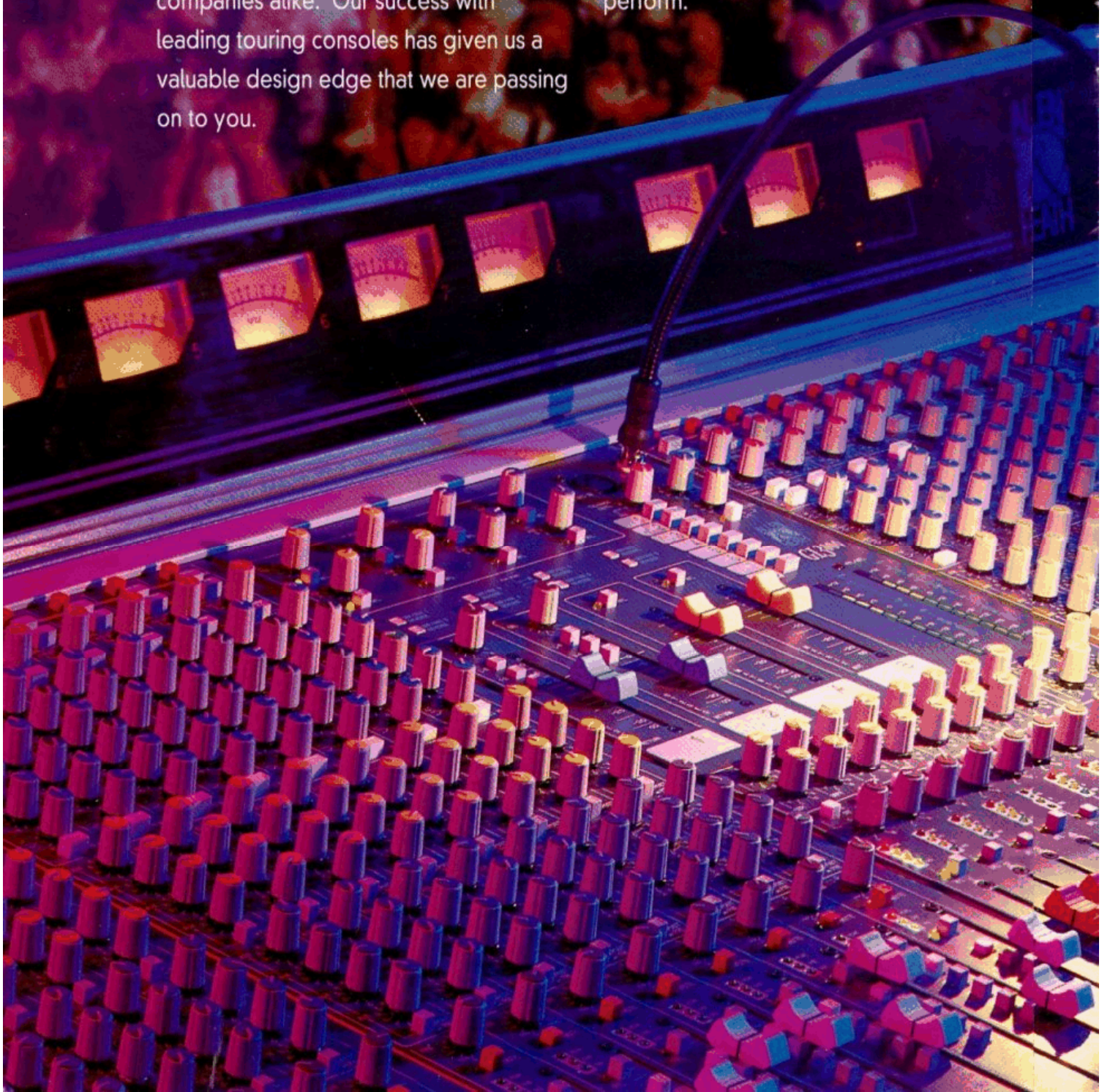
# GL3000

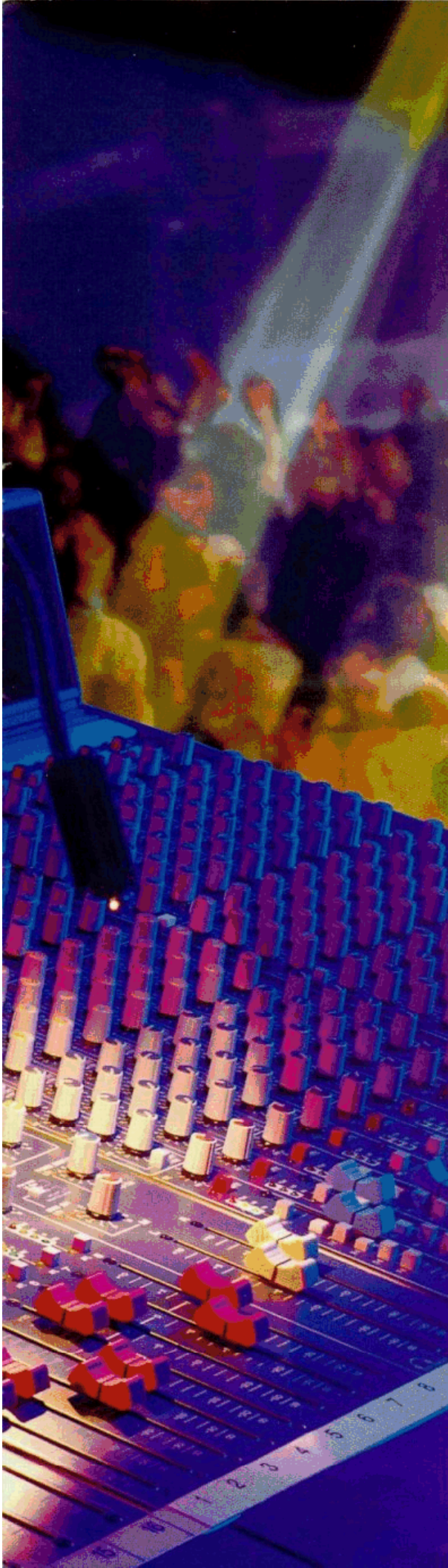
Another premier 8 group Front-of-House and Monitor console from Allen & Heath.

Our objective was to create the best PA console for clubs, bands, and hire companies alike. Our success with leading touring consoles has given us a valuable design edge that we are passing on to you.

It's more than just the supreme purity of the audio, it's the style, its the legendary ruggedness, and its the fine tuning of a unique and advanced feature set.

This feature set is your key to step up and perform.





## Dual Function

A rare tool

A great show requires great performers and a great sound all working together. For the engineer; concentration, instant access, and total visibility of the console status are crucial. The sound must be perfect for the audience and the performers. The tools are here; a dual function console that effortlessly combines both the Front-of-House and Monitor functions.

## Front-of-House

As a Front-of-House console the GL3000 has up to 40 channels in a single frame, 4 Stereo Dual Mic inputs, 8 Subgroups, 8 Aux sends and Left, Right, Mono and Matrix outputs.

## Monitors

As a Monitor console you have the same input capability but with 8 independently controllable stage mixes and 1 stereo stage mix. Every monitor output has Balanced XLR connectors, Talkback, AFL, Output meters, Insert points and 100mm faders.

## FOH and Monitors

Dual Mode - Front-of-House and Monitors - makes the GL3000 a rare tool. 8 subgroups, 4 monitor mixes, 4 Aux sends, Left, Right, Mono and Matrix outputs is the default format, but you also have access to every variation in between as well.

Flexibility strategically designed for all engineers.

## Input Channels

What you need, where you need it

Just having control of the outputs is not the whole story. Everything after the mic is your responsibility. We have complimented the power of the master section with a host of facilities on the input channels.

You have all the features for a quick and efficient set up. A new development in our four band sweep EQ gives you a level of control never possible before, a pre input gain Hi Pass filter, 8 Aux busses, input meters, PFL, Mute, and an exceptionally pure Mic pre-amp.

## Stereo Inputs

Don't waste valuable channels

The GL3000 has Dual Mic stereo inputs which include balanced line inputs on XLRs. If you use many stereo pairs; ie: take stereo feeds from the stage, or have stereo FX returns, these full featured inputs will save you wasting valuable Mono channels.

## The Right Balance

It takes time and years of experience to get the balance right. The GL3000 is a console that will make any engineer at any level of expertise immediately feel at home.

There is plenty more; this console is expandable, has a dual power supply option, metering options and is internally configurable for any application.

The GL3000 by Allen & Heath is an unparalleled performance tool.

# Input channels

If everything after the mic is your responsibility you will want the assurance that the mixer you are using lives up to the assignment.

Crucial features at the input stage include the Mic Pre-amp, the EQ, and the routing electronics. All three have benefited from new technology and developments in design engineering.

## Microphone Pre-amp

### The Open Gateway

The Mic pre-amp design has been taken from our highly respected touring console. This is an extremely low noise design giving absolute clarity to the input signal. It will be almost impossible to overload this mic pre using conventional mics, it has an extremely wide input range and excellent CMRR\*.

## Auxiliary Sends

Eight Aux sends on Eight independent knobs. With the GL3000 what you get is what you see. We have chosen to provide instant access for maximum usability. With every control at your finger tips creative mixing comes easily to hand.

The power of our Aux architecture is further enhanced by looking at the table to the left. You can source the Aux signal from a number of places choosing a combination of pre/post EQ, pre/post Mute, Pre/Post fader, and switch bypass.

For complete freedom the Stereo input channels have identical facilities. You can offer the lead performers FX in their monitors and feed FX to FX.

Aux 1 to 4 are colour coded for foldback. These Aux masters have balanced XLR outputs for long cable runs to the stage, insert points for stage monitor graphic equalisers, and AFL.

Aux Assignment Table		
Options		
Post Fader	Post Mute	Post EQ
Pre Fader	Post Mute	Post EQ
Pre Fader	Pre Mute	Post EQ
Pre Fader	Pre Mute	Pre EQ

For defaults see block diagram

\* Common Mode Rejection Ratio - an industry standard measurement for balanced cable noise rejection. see the specifications on the back page.



MONO



# 8 Buss

## Stereo Inputs

Stereo Channels for Stereo Sources.

The stereo input channels can be used for the same wide range of signals as Mono channels. The same Mic-pre circuit has been used on both the left and right inputs.

As the input XLRs accept balanced Line inputs the Stereo channels are ideal for keyboard submix feeds, stereo FX returns and DIs.

The left and right input channels can be selected individually. For example, if only the left input is connected it can be routed as a mono signal. Selecting both inputs results in both being routed as a mono signal.

STEREO

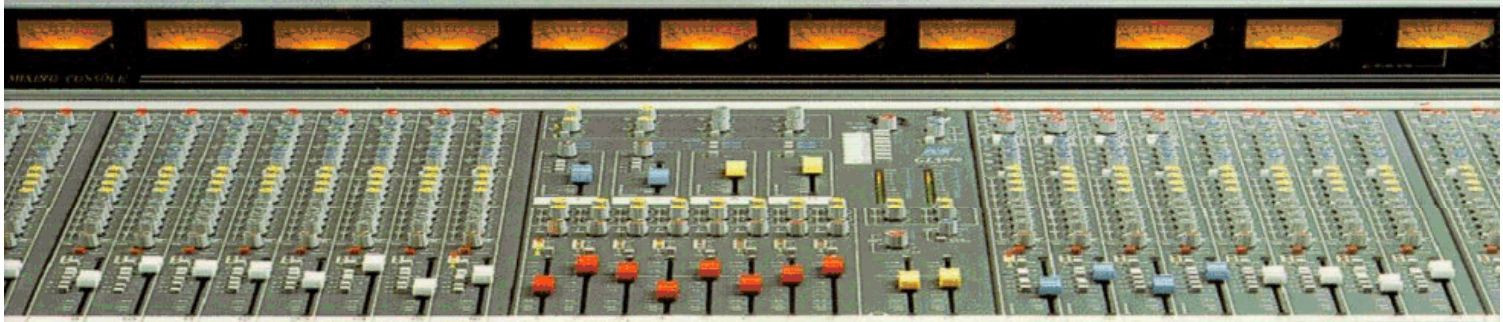
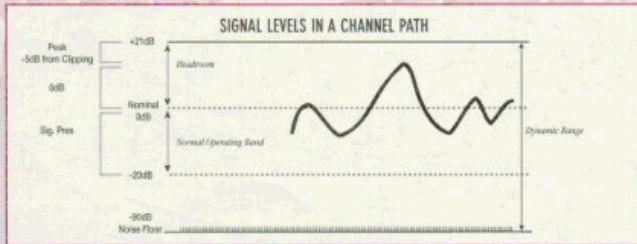


## Input Meters

Seeing is believing

By optimising the internal architecture we can offer a much wider dynamic range throughout the whole console. This means you spend less time controlling the console and more time controlling the mix.

Other 'Engineer Friendly' features include input meters and monitoring facilities. The input meters match the dynamics of the incoming signal so you can see at a glance what activity is on what channel.

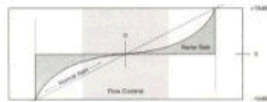


# RAUX.

## EQ

New technology and common sense.

The GL3000 isn't just for rock. We have implemented an EQ that is both aggressive and gentle. We have introduced a ramped gain structure in the amplifier stage to give two levels of control. Over the first 60 degrees of turn the control subtly boosts or cuts by 6dB. This is the optimum corrective gain needed for acoustic instruments in ambient environments. Turn the control past this point and you have a smooth ramp towards the full + or - 15dB of gain.



## Hi Pass Filter

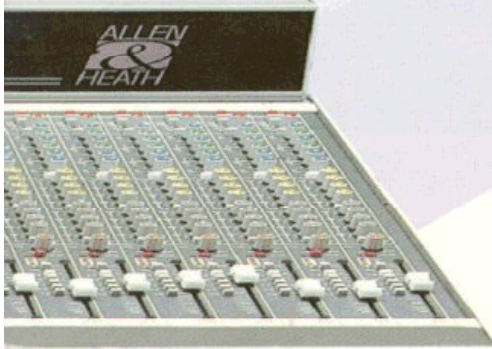
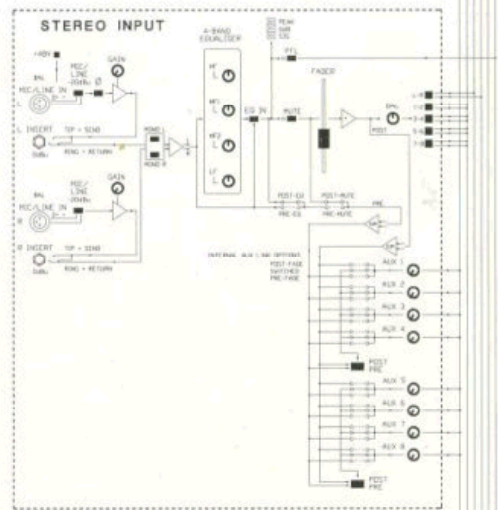
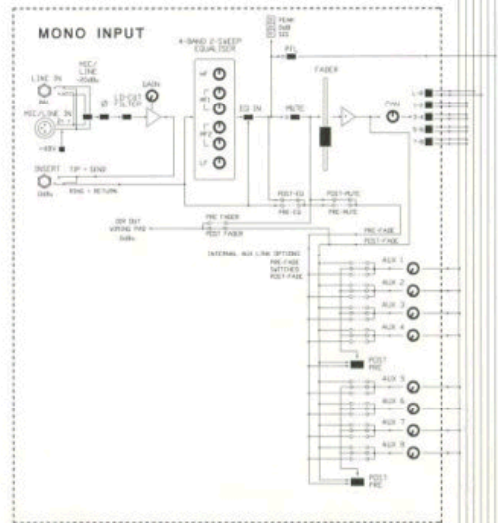
The hi pass filter switch is pre the input gain stage. This means that stage rumble and popping are minimised and the pre-amp works only with the wanted signal.

## Dual Function EQ

There is a saying that states Front-of-House EQ is a creative process and Monitor EQ is a corrective process. Regardless of what is true there are a few physical characteristics of live sound that affect both applications. Proximity effect needs control whatever the job, stage rumble and resonance apply equally to the PA sound and to the monitor balance. The GL3000 is a dual function console - it is the master of both.



## GL3000 BLOCK DIAGRAM



## Dual Mode

A dual mode console is required because a single engineer is expected to run complex shows and hire companies need flexible equipment. Allen & Heath make the best Multifunction and Dual Mode consoles on the market, we should do - we have been doing it for years.

## Monitors

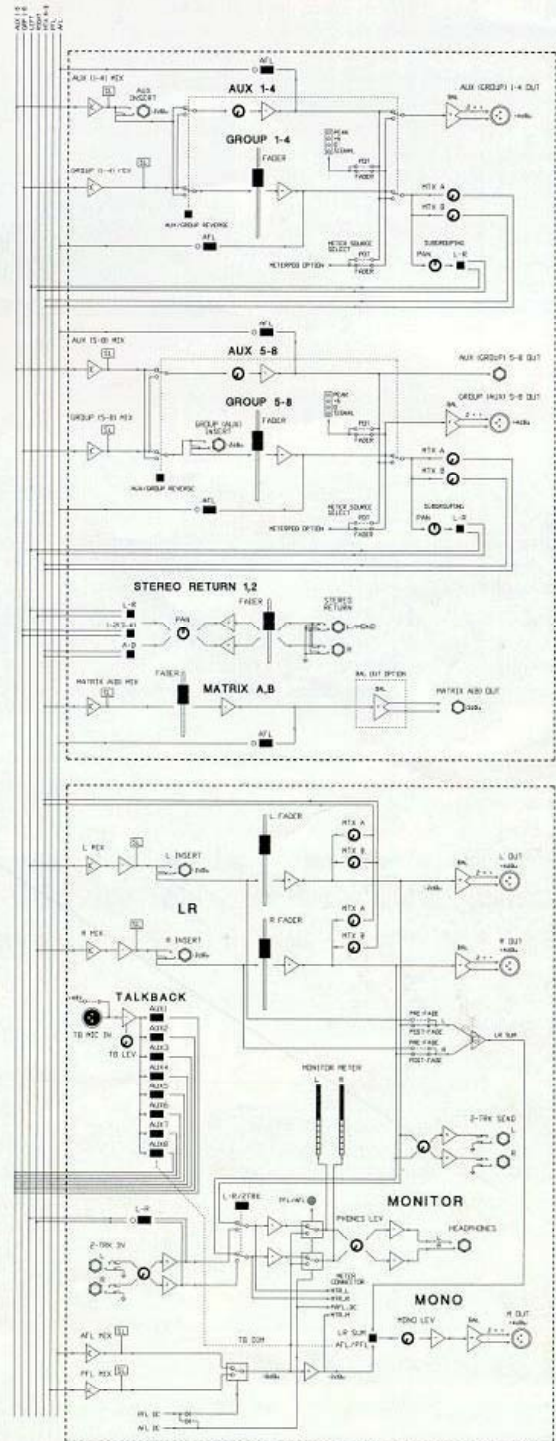
A sub panel switch is all it takes to assign an Aux buss to a stage monitor mix. The change over is not simply the traditional fader flip. With an Aux buss routed through the stage monitor path you get every facility you would expect from a dedicated monitor board; a 100MM LONG THROW FADER, an OUTPUT METER, an INSERT POINT for stage graphics, AFL to monitor the effect of the graphics, a BALANCED XLR CONNECTOR, and full TALKBACK functions.

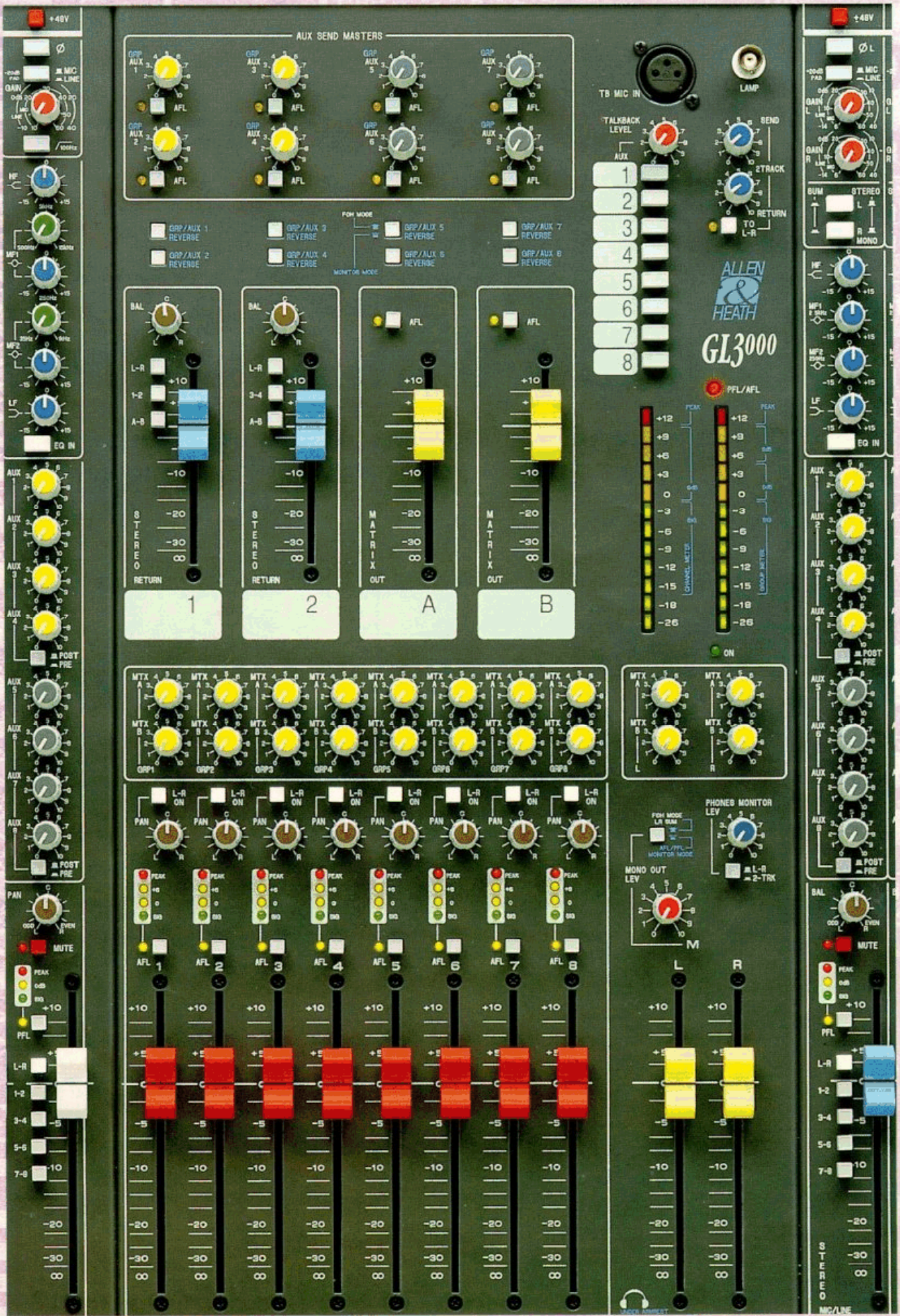
## Front-of-House

The Front-of-House capabilities are equally as complete. There is a DUAL MATRIX facility for delay stacks or stage side fills, two STEREO RETURNS with balance and routing, a balanced MONO OUTPUT on an XLR for sub bass fills or centre clusters, 2-TRACK SEND AND RETURN levels for recording the performances, providing Video feeds or playing back intermission music, and a powerful HEADPHONE OUTPUT under the armrest so you can monitor signals without dragging the cable across the control surface.

## Performance

Technology helps to make a console sound good but it takes an exceptional team of design engineers to make a console sound great. The GL3000 comes from a long line of respected and sought after consoles. When you make one yours, you'll understand why.





Mono

Master

Stereo



# Master Section

The master section of any console is its home base. Consider the fact that during a performance you spend much of your time attending the facilities in this area.

You have eight subgroup faders and the main LR mix faders right down by your hands. You have your returns on faders and you have your matrix outputs on faders. The list goes on.

We like to think our designs give you unparalleled access to every facility in a spacious and totally logical manner. We want you to perform with the very best, the GL3000 gives you the scope to do just that.

Stereo

Master

Mono

