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Allen & Heath GL2400/16

Allen & Heath GL2400/16 Professional Mixer

User Manual

INTRODUCTION

The Allen & Heath GL2400/16 is a 16-channel professional mixer designed for a wide range of audio applications, including Front-of-House (FOH) mixing, monitor mixing, live recording, and studio use. Building on a legacy of innovative mixer design, the GL2400 offers superior performance, functionality, and robust build quality. This 4-bus, dual-function console provides versatile solutions for demanding audio environments.

Its design emphasizes dual functionality, ensuring that all controls are relevant and operational whether used for FOH or monitor mixing. Key features include a high-headroom mic preamp, responsive 4-band EQ, and flexible routing options, making it a reliable tool for audio professionals.



Figure 1: Front view of the Allen & Heath GL2400/16 Professional Mixer, showing all channels, faders, and control sections.

SETUP

Proper setup is crucial for optimal performance of your GL2400/16 mixer. Follow these steps to connect your mixer:

1. **Unpacking:** Carefully remove the mixer from its packaging. Inspect for any signs of damage during transit.
2. **Placement:** Position the mixer on a stable, flat surface, ensuring adequate ventilation around the unit.
3. **Power Connection:** Connect the provided power cord to the mixer's AC inlet on the rear panel and then to a suitable grounded power outlet. The GL2400 operates on a corded electric power source. Ensure the power switch is in the OFF position before connecting.
4. **Input Connections:** Connect your microphones and line-level sources to the respective XLR (Mic In) and 1/4-inch (Line In) input jacks on the rear panel. The mixer features 16 mic/line inputs.
5. **Output Connections:** Connect your main outputs (LR, M), auxiliary sends, and group outputs to your amplifiers, powered speakers, or recording devices using balanced XLR cables. The mixer provides 6 auxiliary sends and a 7x4 mix matrix for flexible routing.
6. **Monitoring:** Connect your studio monitors or headphones to the appropriate monitor outputs.



Figure 2: Rear panel of the Allen & Heath GL2400/16 Professional Mixer, illustrating input and output connections, including mic/line inputs, auxiliary sends, and main outputs.

OPERATING INSTRUCTIONS

The GL2400/16 is designed for intuitive operation, offering comprehensive control over your audio. This section outlines key operational aspects.

Channel Strip Controls

- **Mic/Line Inputs:** Each of the 16 channels features a high-quality mic preamp with an extended 74dB gain range, capable of handling signals up to +34dBu. Adjust the GAIN knob to set the input level.
- **4-Band EQ:** Each channel includes a responsive 4-band equalizer with sweepable mids (High Mid and Low Mid) for precise tonal shaping.
- **Auxiliary Sends:** The mixer provides 6 auxiliary sends per channel. These can be configured pre-fader or post-fader, allowing for flexible routing to monitor mixes, effects processors, or other destinations. When mixing FOH, monitors can be set pre-insert and pre-EQ.
- **Faders:** 100mm professional faders provide smooth and accurate level control for each channel.

Master Section and Outputs

- **Main LR Outputs:** The primary stereo mix outputs.
- **M Fader:** This configurable master fader can be used to create a mono fill, an engineer's monitor wedge feed, or a dedicated center or sub-bass speaker mix from Aux 6. Each of L, R, and M outputs features dedicated meters, mute, AFL, and balanced XLR outputs.
- **Groups:** The mixer includes group outputs for sub-mixing multiple channels.
- **Matrix:** A 7x4 mix matrix is available for specialized routing, useful for corporate AV, recording, broadcast feeds, and personal monitoring. External inputs can be added to the matrix, and cross-patching from stereo channel mic breakpoints allows for adding room ambience to recordings and IEM feeds.
- **Dual Stereo Channels:** These channels offer mic and two stereo line inputs each. They can function as mic inputs with independent routing to LR, combine stereo sources like backing tracks, or provide additional returns.



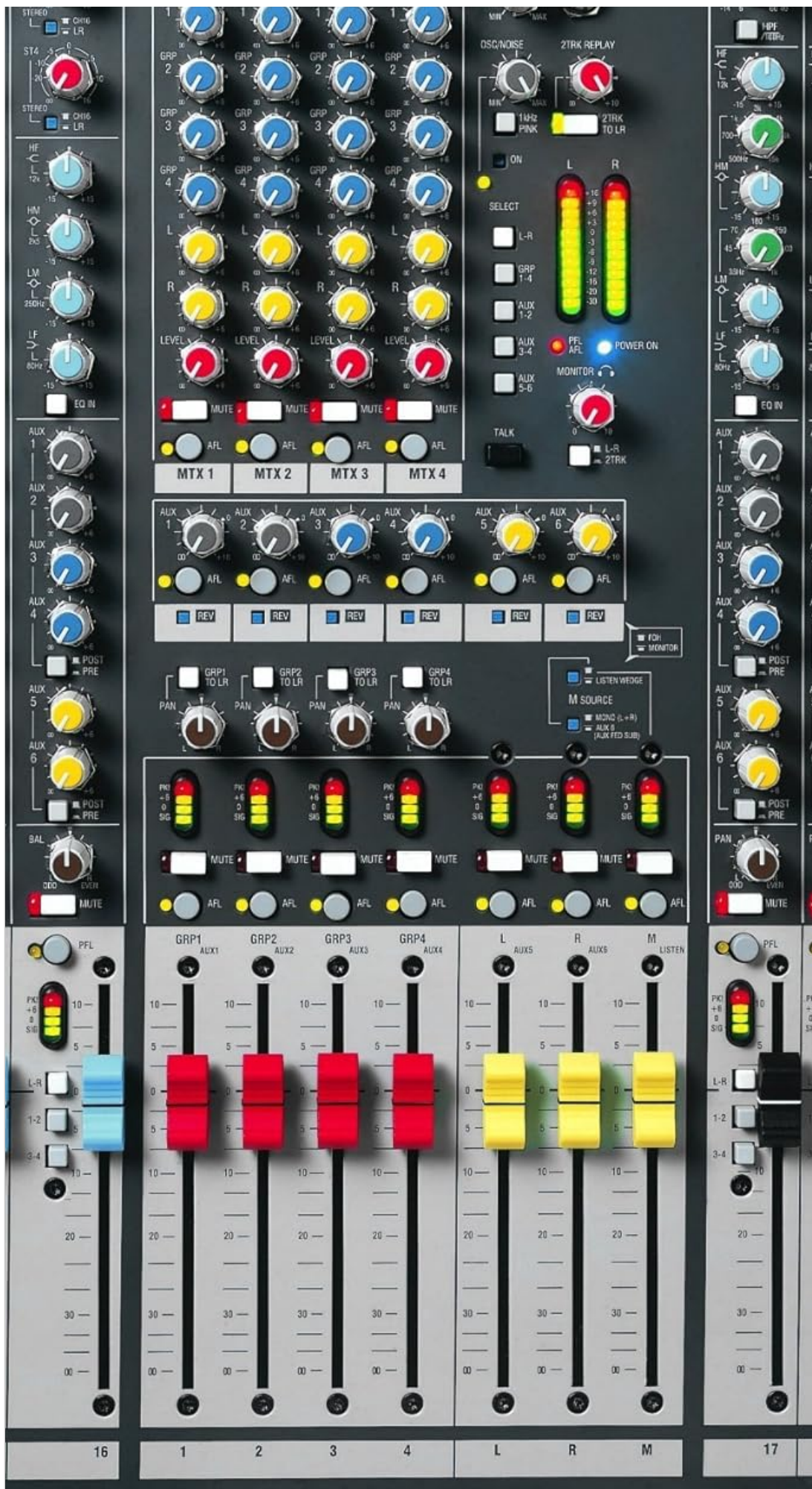


Figure 3: Close-up view of the Allen & Heath GL2400/16 mixer's control surface, highlighting channel strips, EQ, auxiliary sends, and master section controls.

MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your GL2400/16 mixer.

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the exterior surfaces. For stubborn dirt, a slightly damp cloth with mild soap can be used, ensuring no liquid enters the unit. Avoid abrasive cleaners or solvents.
- **Dust Protection:** When not in use, cover the mixer with a dust cover to prevent dust and debris from accumulating on faders, knobs, and switches.
- **Environmental Conditions:** Operate and store the mixer in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight.
- **Cable Inspection:** Periodically inspect all cables for wear and tear. Replace damaged cables to prevent signal loss or electrical hazards.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your GL2400/16 mixer.

- **No Power:**
 - Ensure the power cord is securely connected to both the mixer and a working power outlet.
 - Check the power switch on the mixer.
 - Verify the power outlet is functional by plugging in another device.
- **No Sound Output:**
 - Check all input and output cable connections.
 - Ensure channel faders, group faders, and master LR faders are raised.
 - Verify that no MUTE buttons are engaged on channels, groups, or master outputs.
 - Check the gain settings for input channels and ensure signals are present at the input.
 - Confirm that external amplifiers or powered speakers are turned on and functioning correctly.
- **Distorted Sound:**
 - Reduce input GAIN levels if the channel PEAK indicator is frequently lighting.
 - Check output levels to ensure they are not overdriving connected amplifiers or devices.
 - Inspect cables for damage or poor connections.
- **Hum or Noise:**
 - Ensure all equipment is properly grounded.
 - Use balanced cables for longer runs and critical connections.
 - Separate audio cables from power cables to avoid interference.
 - Check for faulty cables or connectors.

SPECIFICATIONS

Model Number	AH-GL2400/16
Brand	Allen & Heath
Number of Channels	16
Item Weight	42 pounds (19.05 kg)
Product Dimensions	29.9 x 11.4 x 28.3 inches (75.9 x 29 x 71.9 cm)
Power Source	Corded Electric
Connectivity Technology	Auxiliary
Equalizer	4-Band with sweepable mids
Auxiliary Sends	6 per channel
Mix Matrix	7x4

WARRANTY INFORMATION

Allen & Heath products are manufactured to high standards and are designed for reliability. For specific warranty terms and conditions applicable to your GL2400/16 mixer, please refer to the warranty card included with your product or visit the official Allen & Heath website. Warranty coverage typically includes defects in materials and workmanship under normal use.

Please retain your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

Should you require technical assistance, service, or have questions regarding your Allen & Heath GL2400/16 mixer, please contact Allen & Heath customer support. You can find contact information, FAQs, and additional resources on the official Allen & Heath website:

Visit Allen & Heath Support

When contacting support, please have your product model number (AH-GL2400/16) and serial number ready.

