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› [Allen & Heath MixWizard WZ416:2 Professional Mixing Console User Manual](#)

## Allen & Heath WZ416:2

# Allen & Heath MixWizard WZ416:2 Professional Mixing Console User Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your Allen & Heath MixWizard WZ416:2 professional mixing console. Please read this manual thoroughly before operating the unit and retain it for future reference. The MixWizard WZ416:2 is a versatile 16-channel mixer designed for various audio applications, offering high-quality sound and robust construction.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent electric shock, injury, or damage to the equipment:

- **Power Supply:** Connect the unit only to the specified power supply voltage. Ensure the power cord is not damaged or pinched.
- **Grounding:** The unit must be properly grounded to prevent electric shock.
- **Moisture:** Do not expose the unit to rain, moisture, or excessive humidity. Avoid placing liquid containers on the console.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block ventilation openings.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or modify the unit yourself.
- **Placement:** Place the console on a stable, level surface or securely mount it in a rack.

## 3. PRODUCT OVERVIEW

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The Allen & Heath MixWizard WZ416:2 is a 16-channel professional mixing console featuring high-specification mic/line inputs, built-in effects, and comprehensive routing options. It is designed for both desk and 19-inch rack-mountable applications.



Figure 1: Front view of the MixWizard WZ416:2 console. This image displays the main control surface with 16 input channels, each featuring faders, equalization knobs, auxiliary sends, and pan controls. The master section with output faders and meters is visible on the right.



Figure 2: Angled front view of the MixWizard WZ416:2. This perspective provides a clearer view of the individual channel strips and the ergonomic design of the console's controls.



Figure 3: Side view of the MixWizard WZ416:2. This image illustrates the console's angled design, which allows for comfortable operation when placed on a desk or surface.



Figure 4: Rear panel of the MixWizard WZ416:2. This view shows the extensive connectivity options, including XLR and TRS inputs, direct outputs, auxiliary sends, and the power input.

## Key Features:

- 16 high-specification mic/line inputs with XLR/TRS jacks.
- 4-band EQ with sweepable mids on each channel.
- 6 auxiliary sends for monitors or external effects.
- 16 direct outputs for multi-track recording.
- 2 stereo returns for external effects or playback devices.
- Built-in FX engine with 20 presets.
- 100mm faders and a dedicated mono output fader.
- 48V phantom power and -20dB pad on mic inputs.
- 19-inch rack mountable design.

## 4. SETUP

### 4.1 Physical Placement

The MixWizard WZ416:2 can be used as a desktop mixer or installed into a standard 19-inch equipment rack. When rack-mounting, ensure sufficient space for ventilation and access to rear panel connections. For desktop use, place the console on a stable, flat surface.

## 4.2 Power Connection

1. Ensure the console's power switch is in the OFF position.
2. Connect the supplied AC power cord to the IEC inlet on the rear panel of the console.
3. Plug the other end of the power cord into a grounded AC power outlet.

## 4.3 Connecting Inputs

Each of the 16 input channels features balanced XLR and TRS jacks.

- **Microphones:** Connect microphones to the XLR inputs. If using condenser microphones, activate 48V phantom power using the dedicated switch for the respective channel.
- **Line Sources:** Connect line-level devices (e.g., keyboards, CD players, instrument preamps) to the TRS line inputs.
- **Inserts:** Use the TRS insert jacks to connect external processing equipment (e.g., compressors, gates) to individual channels.

## 4.4 Connecting Outputs

- **Main Outputs:** Connect your main PA system or recording interface to the main stereo XLR outputs.
- **Auxiliary Sends:** Use the balanced TRS auxiliary output jacks to feed stage monitors, external effects processors, or other destinations.
- **Direct Outputs:** The 16 direct outputs (TRS) can be connected to a multi-track recorder or computer audio interface for individual channel recording.
- **Stereo Returns:** Connect the outputs of external effects processors or other stereo playback devices to the stereo return TRS inputs.

# 5. OPERATING THE CONSOLE

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## 5.1 Channel Controls (Channels 1-16)

- **Gain Control:** Adjusts the input sensitivity for the microphone or line input. Use the -20dB pad switch for high-level signals.
- **48V Phantom Power:** Activates phantom power for condenser microphones. Ensure microphones are connected before engaging.
- **High-Pass Filter (HPF):** Attenuates frequencies below 80Hz at 12dB per octave to reduce rumble and unwanted low-end noise.
- **4-Band EQ:** Provides control over high, high-mid, low-mid, and low frequencies. The high-mid and low-mid bands are sweepable, allowing precise frequency selection.
- **Aux Sends:** Six knobs control the level sent to each of the six auxiliary outputs. These can be configured as pre-fader (for monitors) or post-fader (for effects).
- **Pan:** Positions the channel's signal within the stereo field.
- **Mute:** Silences the channel's output to the main mix and aux sends.
- **Peak Indicator:** Illuminates when the signal level approaches clipping. Adjust gain to prevent clipping.
- **Channel Fader:** Controls the overall level of the channel in the main mix.

## 5.2 Auxiliary Outputs and Stereo Returns

- **Aux Sends:** Use these outputs to create separate monitor mixes for performers or to send signals to external effects processors.
- **Stereo Returns:** These inputs are used to bring the processed signal from external effects units or other stereo sources back into the main mix. Each return has a dedicated gain knob.

## 5.3 Built-in FX Engine

The console includes two built-in FX engines with 20 presets. Refer to the dedicated FX section on the console for selecting presets and adjusting parameters. The FX can be routed to individual channels via the aux sends.

## 5.4 Master Section

- **Main Mix Faders:** Control the overall output level of the stereo main mix.
- **Mono Output Fader:** Controls the level of the dedicated mono output, useful for subwoofers or center fills.
- **Metering:** LED meters provide visual indication of output levels.

# 6. MAINTENANCE

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## 6.1 Cleaning

To maintain the appearance and functionality of your console:

- Disconnect the power before cleaning.
- Use a soft, dry, lint-free cloth to wipe down the surface.
- For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry cloth.
- Avoid abrasive cleaners, solvents, or waxes, as these can damage the finish and controls.
- Keep faders and knobs free of dust and debris. Compressed air can be used carefully.

## 6.2 Environmental Considerations

Operate and store the console in a clean, dry environment away from extreme temperatures, direct sunlight, and excessive dust or vibration. Proper ventilation is crucial to prevent overheating.

# 7. TROUBLESHOOTING

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If you encounter issues with your MixWizard WZ416:2, refer to the following common problems and solutions:

- **No Sound Output:**
  - Check power connection and ensure the unit is turned on.
  - Verify main mix faders and individual channel faders are raised.
  - Ensure channel mute buttons are disengaged.
  - Check all cable connections to speakers/amplifiers.
- **Distorted Sound:**
  - Reduce input gain if the peak indicator is consistently lit.
  - Check for proper impedance matching between sources and inputs.
  - Ensure output levels are not clipping connected devices.
- **Microphone Not Working (Condenser):**
  - Verify 48V phantom power is engaged for the specific channel.
  - Check microphone cable for damage.
- **Hum or Noise:**
  - Ensure all equipment is properly grounded.
  - Use balanced cables where possible.
  - Check for faulty cables or connections.

If the problem persists, contact Allen & Heath customer support or a qualified service technician.

## 8. SPECIFICATIONS

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Feature	Specification
Item Model Number	AH-WZ416:2
Number of Channels	16
Item Weight	35 Pounds (15.88 kg)
Product Dimensions	22.8 x 11.8 x 23.2 inches (57.9 x 30 x 58.9 cm)
Power Source	Corded Electric
Connectivity Technology	Auxiliary
Rack Mountable	Yes, 19-inch

## 9. WARRANTY INFORMATION

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This Allen & Heath product is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Allen & Heath website for detailed terms and conditions regarding warranty coverage, duration, and service procedures. Keep your proof of purchase for warranty claims.

## 10. SUPPORT

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For further assistance, technical support, or to download the latest firmware and documentation, please visit the official Allen & Heath website:

[www.allen-heath.com](http://www.allen-heath.com)

You may also find helpful resources and FAQs on the Allen & Heath store page on Amazon:

[Allen & Heath Amazon Store](#)