

Behringer P16-HQ

Behringer Powerplay P16-HQ 16-Channel Digital Personal Monitoring Mixer Instruction Manual

Model: P16-HQ | Brand: Behringer

1. INTRODUCTION

The Behringer Powerplay P16-HQ is a 16-channel digital personal monitoring mixer designed to provide musicians and performers with individual control over their monitor mix. This device features enhanced audio performance, intuitive controls, and flexible connectivity options, making it suitable for various live sound and studio applications.



Figure 1: Top view of the Behringer Powerplay P16-HQ.

2. KEY FEATURES

- **Enhanced Audio Performance:** Features a 114dB dynamic range digital-to-analog converter and a high-quality amplifier stage for clear sound, especially with low-impedance headphones and in-ears.

- **Performer-Centric Design:** Allows individual control over monitor mix, including level, panorama, and EQ adjustments.
- **Improved Usability:** Refreshed design with backlit controls, LED indicators, and intuitive channel buttons for ease of use in various lighting conditions.
- **Flexible Control Options:** Offers 3-band EQ per channel, adjustable mid-band frequency on the main channel, and solo/mute functions.
- **Simplified Setup with Ultranet Technology:** Utilizes a single connection for power and 16 independent audio channels, streamlining stage setups and allowing daisy-chaining of multiple units.

3. SETUP

3.1 Connecting the P16-HQ

The P16-HQ is designed for seamless integration into a Behringer Ultranet system. Connect a Cat 5 cable from your Behringer digital mixer or Ultranet distribution hub to the "IN" port on the P16-HQ. This single connection provides both power and 16 channels of digital audio.

For non-Ultranet systems, an analog-to-digital converter (sold separately) is required to convert analog audio signals into a digital format compatible with the P16-HQ.



Figure 2: Rear panel of the P16-HQ showing Ultranet, MIDI, Line Out, and Phones connections.

3.2 Daisy-Chaining Multiple Units

Multiple P16-HQ units can be daisy-chained together using the "THRU" Ultranet port. Connect a Cat 5 cable from the "THRU" port of one P16-HQ to the "IN" port of the next unit. This allows for efficient distribution of audio and power to several personal mixers on stage.

3.3 Power Connection

Ensure the P16-HQ is connected to its dedicated 12V DC power supply. The power switch is located on the rear panel near the DC IN port.

4. OPERATING THE P16-HQ

4.1 Controls Overview

The P16-HQ features a user-friendly interface with clearly labeled controls. The main control surface includes:

- **Mix Preset Section:** Buttons for RECALL and STORE to manage custom mix settings.
- **Channels Section:** Buttons for LINK and GROUP to manage channel assignments.
- **Select Section:** Buttons for MAIN, ULTRANET, SOLO, and MUTE for overall mix control and individual channel management.
- **EQ Controls:** TREBLE, MID (with FREQ adjustment), and BASS knobs to shape the tone of selected channels.
- **Panorama:** Adjusts the stereo position of the selected channel.
- **Volume:** Controls the individual volume of the selected channel.
- **Output Section:** A large OUTPUT knob for overall headphone/line out volume and a LIMITER knob with GR (Gain Reduction) indicator.
- **Channel Buttons (1-16):** Select individual channels for adjustment. These buttons are backlit for visibility.



Figure 3: Angled view of the P16-HQ highlighting the control layout.

4.2 Customizing Your Monitor Mix

1. **Select a Channel:** Press one of the 1-16 channel buttons to select the desired input. The button will illuminate.
2. **Adjust Volume:** Use the VOLUME knob to set the level of the selected channel in your personal mix.
3. **Adjust EQ:** Use the TREBLE, MID, and BASS knobs to adjust the equalization. For the MID band, use the FREQ knob to select the frequency you wish to boost or cut.
4. **Adjust Panorama:** Use the PANORAMA knob to position the selected channel in the stereo field (left to right).
5. **Mute/Solo:** Use the MUTE button to silence a channel or the SOLO button to hear only that channel.

4.3 Saving and Recalling Mix Presets

The P16-HQ allows you to save and recall up to 16 custom mix presets. To save a mix, adjust all channels to your desired settings, then press and hold the STORE button until it flashes. To recall a saved mix, press the RECALL button and then select the desired preset number (1-16).

4.4 Limiter Function

The built-in limiter helps protect your hearing and equipment from sudden loud peaks. Adjust the LIMITER knob to set the threshold. The GR (Gain Reduction) indicator will light up when the limiter is actively reducing the signal, ensuring a consistent and safe listening level.

5. MAINTENANCE

To ensure the longevity and optimal performance of your P16-HQ, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior. Avoid abrasive cleaners or solvents.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the unit with care to prevent physical damage to knobs, buttons, and connectors.

6. TROUBLESHOOTING

If you encounter issues with your P16-HQ, consider the following basic troubleshooting steps:

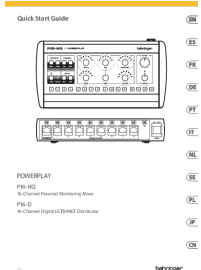
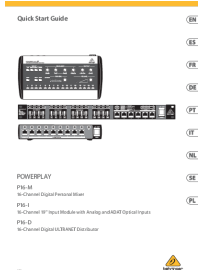
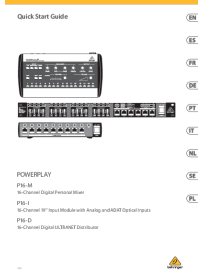


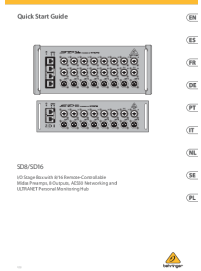
- **No Power:** Ensure the power adapter is securely connected to both the unit and a working power outlet. Check the power switch on the rear panel.
- **No Audio Output:** Verify that your headphones or monitors are correctly connected and their volume is turned up. Check the main OUTPUT knob on the P16-HQ. Ensure the selected channels are not muted or soloed incorrectly.
- **No Input Signal:** Confirm that the Ultranet cable is properly connected to both the P16-HQ and the source mixer/hub. Check the source mixer for proper channel routing and signal levels.
- **Distorted Audio:** Reduce input levels from the source mixer or adjust the LIMITER on the P16-HQ. Check for loose cable connections.

7. SPECIFICATIONS

Feature	Specification
Brand	Behringer
Model Number	P16-HQ
Number of Channels	16
Connectivity Technology	Auxiliary, Ultranet
Item Weight	3.74 pounds
Product Dimensions	15.25 x 7.5 x 4.25 inches
Power Source	Corded Electric (12V DC)
Dynamic Range (DAC)	114dB

8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and service inquiries, please refer to the official Behringer website or contact their customer support directly. Keep your proof of purchase for warranty claims.

 <p>Quick Start Guide</p> <p>POWERPLAY P16-HQ 16-Channel Personal Monitoring Mixer P16-D 16-Channel Digital ULTRANET Distributor</p> <p>behringer</p>	<p>Behringer POWERPLAY P16-HQ & P16-D Quick Start Guide</p> <p>Get started quickly with the Behringer POWERPLAY P16-HQ Personal Monitoring Mixer and P16-D Digital ULTRANET Distributor. This guide covers setup, controls, and basic operation.</p>
 <p>Quick Start Guide</p> <p>POWERPLAY P16-M 16-Channel Digital Personal Mixer P16-I 16-Channel 10" Input Module with Analog and AD/DA Converters P16-D 16-Channel Digital ULTRANET Distributor</p> <p>behringer</p>	<p>Behringer POWERPLAY P16 Series Quick Start Guide</p> <p>This guide provides quick start instructions for the Behringer POWERPLAY P16-M Digital Personal Mixer, P16-I Input Module, and P16-D Digital ULTRANET Distributor, covering setup, connections, and basic controls.</p>
 <p>Quick Start Guide</p> <p>POWERPLAY P16-M 16-Channel Digital Personal Mixer P16-I 16-Channel 10" Input Module with Analog and AD/DA Converters P16-D 16-Channel Digital ULTRANET Distributor</p> <p>behringer</p>	<p>Behringer POWERPLAY P16 Series Quick Start Guide</p> <p>This guide provides a quick start for setting up and using the Behringer POWERPLAY P16-M, P16-I, and P16-D personal monitoring system. It covers basic setup, hook-up diagrams, and control descriptions for each device.</p>
 <p>Quick Start Guide</p> <p>POWERPLAY P1 Personal In-Ear Monitor Amplifier</p> <p>behringer</p>	<p>Behringer POWERPLAY P1 Personal In-Ear Monitor Amplifier Quick Start Guide</p> <p>Quick start guide for the Behringer POWERPLAY P1 Personal In-Ear Monitor Amplifier, covering safety instructions, controls, specifications, and warranty information.</p>
 <p>User Manual</p> <p>EUROPOWER PMP1680S/PMP980S/PMP960M 16/18/20-Channel 100W 100V Channel Powered Mixer with Class D Amplifier and 100V/200V Transformer System</p> <p>behringer</p>	<p>Behringer EUROPOWER PMP1680S/PMP980S/PMP960M User Manual: Powered Mixer Guide</p> <p>Comprehensive user manual for the Behringer EUROPOWER PMP1680S, PMP980S, and PMP960M 10/6-Channel Powered Mixers. Covers features, controls, installation, wiring, specifications, and safety instructions.</p>
 <p>Quick Start Guide</p> <p>SD8/SD16 16/8-Channel 100W 100V Channel Powered Mixer with Class D Amplifier and 100V/200V Transformer System</p> <p>behringer</p>	<p>Behringer SD8/SD16 Quick Start Guide: I/O Stage Box with Midas Preamps</p> <p>Quick Start Guide for the Behringer SD8/SD16 I/O Stage Box, featuring remote-controllable Midas Preamps, 8 Outputs, AES50 Networking, and ULTRANET Personal Monitoring Hub. Includes setup, controls, and specifications.</p>

