

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [dbx](#) /
- › [dbx PMC16 16-Channel Personal Monitor Controller User Manual](#)

## dbx PMC16

# dbx PMC16 16-Channel Personal Monitor Controller User Manual

Model: PMC16

[Introduction](#)   [Setup](#)   [Operation](#)   [Maintenance](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

The dbx PMC16 is a 16-channel personal monitor controller designed to provide musicians and performers with customized audio mixes. It integrates seamlessly with BLU link compatible devices, such as the dbx TR1616, allowing users to create their ideal monitoring environment. The PMC16 supports various monitoring options including headphones, in-ear monitors, powered monitors, or traditional wedge monitors.

This manual provides detailed instructions for setting up, operating, and maintaining your PMC16 to ensure optimal performance and longevity.

## 2. SETUP

### 2.1 Unpacking and Inspection

Carefully remove the PMC16 from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the original packaging for future transport or storage.

### 2.2 Connecting Power

Connect the provided 9V DC power adapter to the **9 VDC** input on the rear panel of the PMC16. Ensure the adapter is securely connected before plugging it into a power outlet.



Figure 1: Rear panel connections of the dbx PMC16. Note the 9V DC power input on the far left.

## 2.3 BLU Link Connection

The PMC16 utilizes BLU link for digital audio transmission. Connect a standard CAT5e Ethernet cable from the **BLU Link OUT** port of a compatible BLU link device (e.g., dbx TR1616) to the **BLU Link IN** port on the PMC16. Multiple PMC16 units can be daisy-chained using the **BLU Link OUT** port of one PMC16 to the **BLU Link IN** of the next. This connection provides 16 channels of high-resolution digital audio to each PMC16 unit.

## 2.4 Audio Output Connections

Connect your monitoring devices to the appropriate outputs:

- **Headphones/In-Ear Monitors:** Use the **LEFT** and **RIGHT** 1/4-inch TRS headphone outputs.
- **Powered Monitors/Wedge Monitors:** Use the balanced **LEFT** and **RIGHT** XLR outputs for connection to external amplification or powered speakers.

Ensure all audio connections are secure to prevent signal loss or interference.

## 2.5 Initial Power On

Once all connections are made, power on the PMC16. The unit will initiate its startup sequence. Refer to the display for status indicators.

# 3. OPERATION

---

The PMC16 offers comprehensive control over your personal monitor mix. The intuitive user interface and LCD display facilitate easy adjustments.

## 3.1 Mixer Section

The core of the PMC16 is its 16-channel mixer. For each of the 16 input channels, you can adjust:

- **Level:** Adjust the individual volume of each channel.
- **Panning:** Position the channel within the stereo field (left to right).
- **Effect Send:** Control the amount of signal sent to the onboard Lexicon reverb.
- **Mute:** Silence individual channels.
- **Solo:** Isolate individual channels for monitoring.

The LCD display provides real-time 16-channel level metering, allowing for precise visual monitoring of input signals.

## 3.2 Onboard Lexicon Reverb

The PMC16 includes a built-in Lexicon reverb processor. Use the effect send controls in the mixer section to apply reverb to individual channels. Adjust the overall reverb parameters as needed to achieve the desired spatial effect in your monitor mix.

## 3.3 Output Processing

The master output section provides additional tools to refine your overall monitor mix:

- **Stereo Width Control:** Adjust the perceived stereo image of your mix.
- **Wedge Monitor Compensation EQ:** Apply equalization specifically designed to optimize the sound for wedge monitors.
- **High and Low Master EQ:** Global tone controls for the entire mix.

- **Master Level Control:** Adjust the overall output volume.
- **dbx PeakStopPlus Limiting:** Protects your ears and monitoring equipment by preventing signal peaks from exceeding a safe level.

### 3.4 Setup Wizard and Presets

The PMC16 features a Setup Wizard to guide you through initial configuration. Additionally, you can save and recall up to 16 preset locations for your preferred mixes and configurations. This allows for quick setup in different performance or studio scenarios.

Channel grouping functionality is also available to streamline control over multiple channels simultaneously.

## 4. MAINTENANCE

---

### 4.1 Cleaning

To clean the PMC16, use a soft, dry cloth. For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry cloth. **Do not use abrasive cleaners, solvents, or waxes** as these can damage the finish and internal components. Ensure the unit is powered off and disconnected from the power source before cleaning.

### 4.2 Storage

When not in use for extended periods, store the PMC16 in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to use the original packaging for protection during storage or transport.

### 4.3 Firmware Updates

Periodically check the dbx official website for any available firmware updates. Firmware updates can provide new features, performance improvements, or bug fixes. Follow the instructions provided with the update carefully.

## 5. TROUBLESHOOTING

---

This section addresses common issues you might encounter with your PMC16.

### 5.1 No Power

- Ensure the 9V DC power adapter is securely connected to both the PMC16 and a working power outlet.
- Verify the power outlet is active by plugging in another device.
- Check the power adapter for any visible damage.

### 5.2 No Audio Output

- Confirm that the BLU Link cable is correctly connected between the source device and the PMC16's **BLU Link IN** port.
- Check all audio output cables (headphones, XLR) are securely connected to the PMC16 and your monitoring devices.
- Ensure the master level control on the PMC16 is turned up.
- Verify that individual channel levels are not muted or set to zero.
- If using XLR outputs, confirm that your powered monitors or amplifier are turned on and functioning correctly.

### 5.3 Distorted Audio

- Reduce the input levels from the source device to prevent clipping.
- Lower individual channel levels or the master level on the PMC16.

- Check the settings of any connected monitoring devices for excessive gain.
- Ensure the **dbx PeakStopPlus Limiting** is engaged if you are experiencing frequent peaks.

## 5.4 BLU Link Connection Issues

- Ensure you are using a CAT5e or higher-rated Ethernet cable.
- Check the cable for damage. Try a different cable if available.
- Verify that the BLU Link source device is powered on and transmitting correctly.

## 6. SPECIFICATIONS

---

The following are the technical specifications for the dbx PMC16 Personal Monitor Controller:

Feature	Detail
Model Number	PMC16
Item Weight	2.57 pounds
Product Dimensions	11.3 x 8.7 x 2.13 inches
Material Type	Stainless Steel
Power Source	Corded Electric (9V DC)
Number of Channels	16
Connectivity Technology	BLU Link Interface
Onboard Effects	Lexicon Reverb
Output Processing	Stereo Width, Wedge Monitor EQ, Master EQ, dbx PeakStopPlus Limiting
Presets	16 Recallable Locations

## 7. WARRANTY AND SUPPORT

---

### 7.1 Limited Warranty

dbx products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty against defects in materials and workmanship under normal use. The specific terms and duration of the warranty may vary by region. Please refer to the warranty card included with your product or visit the official dbx website for detailed warranty information applicable to your purchase.

**Important:** Keep your proof of purchase (receipt) as it will be required for any warranty service.

### 7.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact dbx customer support. Contact information can typically be found on the official dbx website or in the documentation accompanying your product. When contacting support, please have your product model number (PMC16) and serial number ready.

You can also visit the [dbx Store on Amazon](#) for additional product information and resources.

