



## USER MANUAL

### PowerWorks MX2406BT-U Analogue Mixer – User Manual

Professional 16-Input Mixer with USB, Bluetooth & DSP Effects

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#### Welcome and Congratulations!

Thank you for choosing the PowerWorks MX2406BT-U, a versatile analogue mixer with 16 inputs designed for live performances, studio recording, and professional audio applications.

With advanced DSP processing, USB/REC player support, Bluetooth connectivity, and high-quality noiseless mic preamps, the MX2406BT-U delivers pristine audio and precise control for professional sound management.

This manual will guide you through setup, operation, and best practices. Reading it will help you maximize the capabilities of your mixer.

Let's get started — and experience superior sound with PowerWorks.

[www.powerworks-audio.com](http://www.powerworks-audio.com)

## **PowerWorks MX2406BT-U Mixer – User Manual**

### **1. Introduction & Features**

The PowerWorks MX2406BT-U mixer combines high-quality audio, flexible routing, and digital processing. Key features include:

- 16 channels (14 mic inputs + 2 stereo inputs)
- 16 noiseless mic/line preamps (Agrea technology) for minimal background noise
- 4-band EQ on individual channels
- 9-band EQ on main output for precise tonal shaping
- 4 group outputs and 1 stereo output
- 4 AUX sends and 1 stereo return
- XLR balanced outputs for professional audio quality
- +48V phantom power for condenser microphones
- Independent monitor function for real-time monitoring
- Limiter COMP function to prevent distortion
- Built-in 24/24-bit DSP with USB/REC player system
- 2-in/2-out USB stereo sound card (96kHz/24-bit) for computer recording/playback
- Bluetooth connectivity for wireless streaming

## **2. Panel Layout**

### **Channel Controls:**

Each channel includes:

- Gain control (input level adjustment)
- 4-band EQ
- AUX send controls
- Mute switch
- Volume fader

### **Master Section:**

- Main output level control
- 9-band EQ on main output
- 4 group outputs
- 1 stereo output
- 1 stereo return input
- DSP effect controls
- USB/REC player system controls
- Bluetooth streaming controls
- Independent monitor function

### **Inputs and Outputs:**

- 14 mic inputs
- 2 stereo inputs
- 4 group outputs
- 1 stereo output
- 1 stereo return
- 4 AUX sends
- XLR balanced outputs
- USB stereo sound card (2-in/2-out)
- Bluetooth connectivity

### **3. Quick Setup & Operation**

1. Connect microphones, instruments, or other audio sources to the input channels.
2. Enable phantom power (+48V) if using condenser microphones.
3. Adjust channel gain levels to prevent distortion.
4. Use the 4-band EQ on each channel and 9-band EQ on the main output to shape your sound.
5. Route audio via group outputs, stereo outputs, AUX sends, or the stereo return as needed.
6. Apply DSP effects using the onboard controls.
7. Connect the USB sound card to a computer for recording or playback.
8. Stream audio wirelessly using Bluetooth connectivity.

## **4. Recording via USB**

### **USB Recording**

- Connect a USB device to the mixer to record your mix directly.
- Use the USB/REC player controls to start and stop recording.
- Files are saved directly to your connected USB device for easy access.

### **Playback**

- Play MP3 audio directly from a USB device.
- Navigate tracks and control playback using the onboard USB/REC controls.

### **Bluetooth Streaming**

- Pair your Bluetooth-enabled device with the mixer.
- Stream audio wirelessly for playback or integration into your mix.

## **5. DSP Effects**

- 24/24-bit built-in DSP provides precise audio processing.
- 99 built-in effect types (Reverb, Delay, Chorus, Flanger, Phaser, etc.) add depth and polish.
- USB/REC player system allows direct recording and playback.
- Bluetooth connectivity enables wireless audio streaming.

## **6. Tips & Best Practices**

- Monitor levels carefully to avoid clipping or distortion.
- Use the limiter COMP function to maintain consistent audio quality.
- Mute unused channels to reduce background noise.
- Use group outputs and AUX sends for flexible routing of external effects and monitors.
- Check your mix via the independent monitor output before live output.
- Ensure USB and Bluetooth devices are properly connected for stable recording/playback.

## 7. Specifications

- **Channels:** 16 (14 mic inputs + 2 stereo inputs)
- **Preamps:** 16 noiseless mic/line preamps (Agrea technology)
- **EQ:** 4-band EQ per channel, 9-band EQ on main output
- **Outputs:** 4 group outputs, 1 stereo output, 1 stereo return
- **AUX Sends:** 4
- **Phantom Power:** +48V per channel
- **Monitor Function:** Independent
- **Limiter COMP Function:** Yes
- **Connectivity:** USB (2-in/2-out, 96kHz/24-bit), Bluetooth
- **DSP:** 24/24-bit built-in with USB/REC player system
- **Faders:** High-precision level attenuation faders
- **Balanced Output:** XLR
- **Recording/Playback:** USB & DSP-enabled
- **Additional Features:** Mute switch, versatile routing, high-quality noiseless mic preamps