



## User Manual

### PowerWorks X-1604BT-USB Audio Mixer

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#### Welcome and Congratulations!

Thank you for choosing the **PowerWorks X-1604BT-USB**, a versatile and feature-rich compact mixer designed for performers, creators, and professionals alike. Whether you're mixing live sound, streaming, recording, or rehearsing, this mixer offers powerful tools to help you get the best results with minimal fuss.

With **Bluetooth connectivity, USB recording/playback, 99 built-in DSP effects, and USB audio interface capabilities**, the X-1604BT-USB delivers everything you need to control and shape your sound confidently. Designed for ease of use without sacrificing performance, this unit is a reliable partner for both beginners and experienced audio engineers.

This manual provides a complete guide to understanding and operating your mixer. We encourage you to take a few minutes to read through it and become familiar with all the controls and features before using the unit.

Let's dive into the world of great sound — with PowerWorks.

## **PowerWorks X-1604BT-USB Mixer – User Manual**

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

The PowerWorks X-1604BT-USB is a compact 6-channel mixer designed for small performances, streaming, content creation, and studio use. It includes:

- 4 mono mic/line channels and 2 stereo channels
- +48 V phantom power on mic inputs
- 4-band EQ on mono channels; 3-band EQ on stereo channels
- Bluetooth playback and USB MP3 player/recorder
- One-key MP3 playback/recording, loop, and stop controls
- 99 built-in DSP effects
- 26 dB pad on mono channels
- 2 AUX sends and 1 FX send (pre/post selectable)
- USB-B port for PC audio interface
- USB-A port for playback and direct recording
- Stereo 7-segment graphic equalizer
- Dual 12-segment LED output meters
- High-stroke channel faders, mute switches
- Internal switching power supply (110–220 V)

## **2. Panel Layout**

### **Channel Controls:**

- Gain knob and PAD (-26 dB) switch on mono channels
- 4-band EQ: Low, Mid-Low, Mid-High, High (mono channels)
- 3-band EQ on stereo channels
- AUX1 and AUX2 send knobs per channel
- FX send knob
- Pan (mono) or Balance (stereo)
- Mute switch
- 60 mm fader for channel volume

### **Master Section:**

- Bluetooth and USB playback control panel (play, pause, record, loop)
- DSP effects selector (presets 1–99)
- FX level master control
- Stereo 7-band graphic EQ
- Master LR volume and Monitor level control
- LED output meters

### **Inputs and Outputs:**

- Combo XLR/TRS mic/line inputs (mono)
- Stereo line inputs (TRS or RCA)
- AUX sends, FX send, Main L/R outputs, Monitor output
- USB-B port for PC connection
- USB-A port for U-disk (MP3 playback and record)
- IEC power connector (AC 110–220 V)

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

1. Plug in microphones, instruments, or devices into the desired channels.
2. Activate +48 V phantom power only if using condenser mics.
3. Use PAD switch if input is too hot or distorting.
4. Set gain levels so channel peak LEDs flash near 0 dB.
5. Adjust EQ to shape each channel's tone.
6. Use AUX sends for monitors or external processors.
7. Connect your phone via Bluetooth or insert a USB flash drive for playback.
8. Press REC to record the main mix to a USB stick or computer.
9. Select DSP effect and send via FX knob per channel.
10. Control overall volume with channel faders and master output.

#### 4. Recording via USB

- **To PC:** Connect via USB-B to your computer. The mixer will function as an audio interface. Use your DAW to record.
- **To USB stick:** Insert a USB drive into the USB-A port. Press REC to start/stop recording the mix directly. Playback is controlled from the front panel.

## 5. DSP Effects

- Select from 99 built-in digital effects, including reverb, delay, and chorus.
- Use the FX send knob on each channel to send signal into the effects processor.
- Adjust the master FX level to blend effects into the main mix.

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

- Use PAD when instruments or mics produce high-level input signals.
- Connect stereo channels for keyboards, phones, or media players.
- AUX sends are ideal for monitor mixes on stage.
- Always monitor LED output meters to prevent clipping.
- Mute unused channels to avoid unwanted noise or feedback.
- Bluetooth playback volume is controlled on the mixer, not from your device.

## 7. Specifications

- Channel Count: 4 mono + 2 stereo
- EQ: 4-band (mono), 3-band (stereo)
- DSP Effects: 99 presets
- Phantom Power: +48 V
- PAD Switch: -26 dB
- Graphic EQ: 7-band stereo
- LED Meters: Dual 12-segment
- AUX/FX: 2 AUX sends, 1 FX send
- Faders: 60 mm channel faders
- USB Functionality: Playback, recording, audio interface
- Power Supply: Internal 110–220 V AC