



USER MANUAL

PowerWorks T-1804BT-U Analogue Mixer – User Manual

Professional 18-Input Mixer with USB, Bluetooth & DSP Effects

Welcome and Congratulations!

Thank you for choosing the PowerWorks T-1804BT-U, a versatile 18-input analogue mixer designed for professional audio production, live sound, and studio recording.

With 99 built-in DSP effects, Bluetooth connectivity, 24-bit/192kHz HD recording, and a parametric equalizer, this mixer provides precise control over your audio. Its intuitive layout and advanced routing options make it perfect for both live and studio environments.

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 professional-grade sound with PowerWorks.

www.powerworks-audio.com

PowerWorks T-1804BT-U Mixer – User Manual

1. Introduction & Features

The PowerWorks T-1804BT-U mixer combines advanced sound control and flexible connectivity. Key features include:

- 18 channels (12 mono microphone inputs + 3 stereo microphone inputs)
- 99 built-in DSP effects for creative audio enhancement
- Parametric equalizer on Channel 3 for precise tonal shaping
- Independent monitor output and earphone monitor output
- COMP pressure limit and PAN sound positioning
- Mute switch on channels for quick signal management
- Signal distortion monitoring light
- PFL solo bus signal distribution for accurate channel monitoring
- AUX auxiliary send and FX effect send for routing to external devices
- REC recording output for high-quality captures
- SUB1/2 group outputs for flexible mixing and grouping
- 60mm high-precision level attenuation faders
- Color display for easy access to settings and effects
- 24-bit/192kHz HD recording via PC USB 2.0 interface
- Bluetooth and USB playback/saving capabilities
- Double 12-segment level monitoring for accurate signal control
- +48V phantom power supply for condenser microphones
- Built-in 100V/240V switching power supply for global compatibility

2. Panel Layout

Channel Controls:

Each channel includes:

- Gain control (input level adjustment)
- 3-band EQ (mono/stereo channels) and parametric EQ on Channel 3
- PAN (sound positioning)
- Mute switch
- PFL solo bus button
- AUX send control
- FX send control
- 60mm high-precision fader

Master Section:

- Main output controls (L/R)
- SUB1/2 group output faders
- DSP effects selector (99 presets)
- REC output
- Monitor outputs (independent & earphone)
- Signal distortion monitoring lights
- Bluetooth & USB interface controls
- Color display for effect and routing management

Inputs and Outputs:

- 12 mono microphone inputs
- 3 stereo microphone inputs
- AUX auxiliary outputs
- FX effect outputs
- SUB1/2 group outputs
- Main L/R outputs
- REC output
- Monitor outputs
- USB interface for recording/playback
- Bluetooth connectivity

3. Quick Setup & Operation

1. Connect microphones, instruments, or other audio sources to the appropriate input channels.
2. Enable phantom power (+48V) if using condenser microphones.
3. Set channel gain and faders to avoid distortion.
4. Adjust EQ and PAN to shape your desired sound.
5. Route channels to AUX, FX, and SUB outputs as needed.
6. Apply DSP effects using onboard controls.
7. Use PFL solo buttons and monitor outputs to check individual channels.
8. Connect a Bluetooth device or USB interface for playback or recording.

4. Recording & Playback

HD Recording via USB:

- Connect the mixer to a PC or Mac via USB 2.0.
- Supports 24-bit/192kHz HD recording.
- Save recordings directly to your computer.

Playback:

- Use the USB interface to play files.
- Stream audio wirelessly via Bluetooth.

5. DSP Effects

- 99 built-in DSP preset effects including reverb, delay, chorus, and modulation.
- Apply to individual channels or main mix.
- Adjust levels for desired effect intensity.

6. Tips & Best Practices

- Monitor levels carefully using double 12-segment displays to prevent clipping.
- Use mute switches to remove unwanted noise quickly.
- Apply EQ and DSP effects subtly to maintain clarity.
- Route audio through AUX, FX, or SUB outputs for flexible setups.
- Check channel levels with PFL solo buttons before outputting live.
- Ensure USB and Bluetooth connections are secure for stable playback or recording.

7. Specifications

- **Channels:** 18 (12 mono microphone inputs + 3 stereo microphone inputs)
- **Outputs:** Main L/R, SUB1/2 group outputs, AUX send, FX send, REC output
- **Equalizer:** Parametric EQ on Channel 3
- **Additional Features:** Independent monitor output, earphone monitor output, COMP pressure limit, PAN sound positioning, mute switch, signal distortion monitoring light, PFL solo bus signal distribution
- **Faders:** 60mm high-precision level attenuation faders
- **DSP Effects:** 99 built-in presets
- **Display:** Color display
- **Recording:** 24-bit/192kHz HD recording via PC USB 2.0
- **Connectivity:** Bluetooth, USB interface for playback/saving
- **Level Monitoring:** Double 12-segment LED
- **Phantom Power:** +48V
- **Power Supply:** Built-in 100V/240V, 50-60Hz switching power supply
- **Compatibility:** PC/Mac