

PreSonus AudioBox USB96

Easy Operation Manual

Dr. Janaka V. Wijayakulasooriya
Department of Electrical and Electronic Engineering

1. Introduction

The **PreSonus AudioBox USB96** is a compact, USB-powered audio interface suitable for:

- Home and project studio recording
- Audio measurement setups
- Podcasting and live streaming

Key features include:

- 2 combo mic/instrument inputs
- 24-bit, up to 96 kHz recording
- MIDI in/out ports
- Direct monitoring for zero-latency recording

2. Front Panel Features

1. Mic/Instrument Combo Inputs (CH 1 & 2)

Accepts:

- XLR connector for microphones
- 1/4" TRS for instruments (guitar/bass)

2. Gain Knobs (CH 1 & 2)

Adjust input gain for each channel. Watch for clipping (red LED).

3. Clip LEDs

Light up red when input signal is too strong; reduce gain to avoid distortion.

4. 48V Phantom Power Button

Provides +48V power for condenser microphones on both XLR inputs.

5. Mixer Knob

Blends input signal with playback from the computer:

- Fully left: direct input monitoring
- Fully right: playback from DAW
- In between: mix of both

6. Main Output Level Knob

Controls volume of the main line outputs (rear panel).

7. Headphone Level Knob

Controls headphone output volume.

8. Headphone Jack (1/4")

Plug in studio headphones for monitoring.

3. Rear Panel Features

1. Main Outputs (Left and Right, 1/4" TRS)

Connect to powered monitors or mixer.

2. MIDI In/Out Ports

For connecting MIDI keyboards, controllers, or external synths.

3. USB 2.0 Port

Connects to computer; powers the device. No external power needed.

4. Setting Up

1. Install Universal Control Driver (if needed)

- Windows: Install from <https://www.presonus.com/products/AudioBox-USB-96>
- Mac: Class compliant, generally no driver needed.

2. Connect USB cable between AudioBox and computer.

3. Connect Microphones/Instruments to combo inputs.

4. Enable 48V if using condenser microphones.

5. Set Gain Levels using the gain knobs. Avoid clipping.

6. Connect Headphones to the headphone jack for monitoring.

7. Adjust Mixer Knob to blend input signal and computer playback as needed.

8. Select AudioBox as Audio Input/Output Device in your DAW (e.g. Audacity, REW, Studio One).

5. Using Direct Monitoring

For zero-latency monitoring during recording:

- Turn **Mixer knob fully left** to hear direct input only.
- Adjust blend as needed to balance between playback track and input.

6. Recording Example (Using REW or DAW)

1. Open REW or DAW software.
2. Select **AudioBox USB96** as input and output device.
3. Set input gain so levels remain below clipping.
4. Record sweep signals, instruments, or vocals as needed.

7. LED Indicators Summary

- **Clip LED (Red)**: Input signal too strong; reduce gain.
- **48V LED**: Phantom power active.

8. Safety and Best Practices

- Do not connect ribbon mics with 48V engaged.
- Reduce gain knobs before connecting microphones or instruments.
- Avoid hot-plugging MIDI devices while in use.
- Always monitor input levels to prevent distortion.

9. Specifications (Summary)

- **Resolution**: 24-bit
- **Sample Rates**: 44.1, 48, 88.2, 96 kHz
- **Mic Preamp Gain Range**: 0–35 dB
- **Phantom Power**: +48V
- **Power**: USB bus-powered

10. Further Resources

Refer to the official user manual for advanced routing and troubleshooting:

<https://www.presonus.com/products/AudioBox-USB-96>

Prepared by Dr. Janaka V. Wijayakulasooriya