

PreSonus Quantum HD2

PreSonus Quantum HD 2 USB-C Audio Interface Instruction Manual

1. PRODUCT OVERVIEW

The PreSonus Quantum HD 2 is a high-performance 20 x 24, 32-bit / 192 kHz USB-C audio interface designed for project studios and full band recordings. It incorporates advanced technology and user-friendly features to ensure professional-grade audio capture and playback.



Image: The PreSonus Quantum HD 2 audio interface shown alongside its included Studio One Pro software box.

Key Features:

- **High-Performance Signal Flow:** Custom low-latency drivers and high-performance converters ensure exceptional audio quality and low latency during recording.
- **All-New MAX-HD Mic Preamps:** Two redesigned MAX-HD mic preamps offer +75 dB of gain, providing transparent, low-noise, and digitally-controlled analog amplification suitable for various microphones.
- **Fender Co-Developed Instrument Inputs:** Two front-facing instrument inputs are engineered in collaboration with Fender for optimal guitar and bass recording.
- **Auto Gain:** A dedicated Auto Gain button automatically sets optimal gain levels for microphones and instruments.
- **Re-Amp Outputs:** Two re-amp outputs allow sending audio from your Digital Audio Workstation (DAW) to external guitar or bass amplifiers for re-recording and sound experimentation.
- **Universal Control App:** Manage critical preamp functions, gain, and phantom power from the flexible front panel, Studio One, or the Universal Control app on mobile or desktop devices.
- **Professional Recording Software:** Includes a perpetual license for Studio One Pro software.

2. SETUP AND CONNECTIVITY

To begin using your Quantum HD 2, follow these steps for proper connection and software installation.

Hardware Connection:

1. Connect the Quantum HD 2 to your computer using the provided USB-C cable. The device is bus-powered, eliminating the need for a separate power supply when connected to a compatible USB-C port.
2. Connect your microphones, instruments, and studio monitors to the appropriate inputs and outputs on the front and back panels of the interface.
3. For headphones, connect to the dedicated headphone output on the front panel.



Image: The PreSonus Quantum HD 2 audio interface shown with its accompanying cables, including the USB-C cable and MIDI adapter.

Software Installation:

Register your Quantum HD 2 to gain access to the included Studio One Pro software and the Universal Control app. Visit the PreSonus website for detailed instructions and to download the necessary drivers and software.

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Video: A detailed guide on how to set up and connect the PreSonus Quantum audio interface, covering initial steps and basic functionality.

3. OPERATING THE QUANTUM HD 2

The Quantum HD 2 offers intuitive controls on its front panel and comprehensive connectivity on its rear panel for versatile recording and monitoring.

Front Panel Controls:

Intuitive front panel.

Guitar / Bass Inputs

Co-Developed
by Fender®

48V
Phantom Power

Multi-Function
LED Encoder

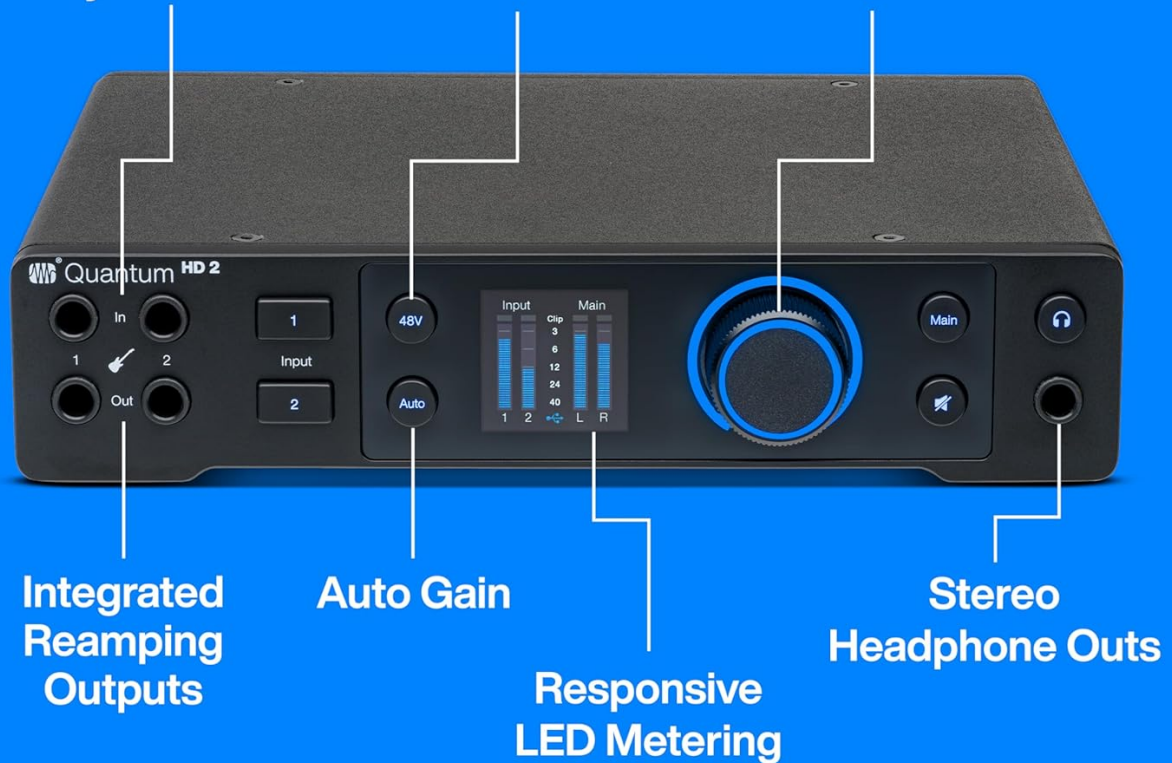


Image: The intuitive front panel of the PreSonus Quantum HD 2, highlighting Guitar/Bass Inputs, 48V Phantom Power, Multi-Function LED Encoder, Integrated Reamping Outputs, Auto Gain, Responsive LED Metering, and Stereo Headphone Outs.

- **Input Jacks:** Two combo jacks for microphones (XLR) or line/instrument sources (1/4-inch).
- **Gain Knobs:** Individual gain controls for each input.
- **48V Phantom Power:** Button to activate phantom power for condenser microphones.
- **Auto Gain Button:** Automatically sets optimal input gain levels.
- **Multi-Function LED Encoder:** Provides flexible control over gain levels and output volume, with responsive LED metering for inputs and main output.
- **Headphone Output:** Dedicated 1/4-inch stereo jack with its own volume control.

Rear Panel Connectivity:

Fully-loaded back panel.



Image: The fully-loaded back panel of the PreSonus Quantum HD 2, detailing ADAT Expandability, Additional Line Outs, All-New MAX-HD Mic Preamps, USB-C Connectivity, MIDI/S/PDIF Connectivity, and Main Outs.

- **USB-C Port:** For connection to your computer.
- **MIDI In/Out:** Standard 5-pin DIN connectors for MIDI devices.
- **S/PDIF In/Out:** Digital audio input/output.
- **ADAT Optical In/Out:** For expanding input/output channels with compatible devices.
- **Main Outputs:** Balanced 1/4-inch TRS outputs for connecting to studio monitors.
- **Line Outputs:** Additional balanced 1/4-inch TRS line outputs.

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Video: A demonstration of the PreSonus Quantum HD 2's features and capabilities, showcasing its use in a studio environment.

4. SPECIFICATIONS

Feature	Detail
Item Weight	2.9 pounds
Product Dimensions	7.5 x 8.5 x 1.9 inches
Item Model Number	Quantum HD2
Number of Channels	20
Connectivity Technology	USB
Compatible Devices	Headphone, Instrument, MIDI Hardware, Microphone, Personal Computer, Smartphone, Studio Monitors, Tablet
Supported Software	Compatible with Studio One Pro, Ableton Live, FL Studio, Cubase, Pro Tools, Logic Pro, Reaper, and many more.
Operating System	Windows, macOS

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your PreSonus Quantum HD 2, follow these general maintenance guidelines:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the interface to extreme temperatures, humidity, or direct sunlight.
- Ensure proper ventilation to prevent overheating.
- Handle all cables and connectors with care to prevent damage.

6. TROUBLESHOOTING

If you encounter issues with your Quantum HD 2, consider the following common troubleshooting steps:

- **No Audio Output:** Verify all cables are securely connected. Check your computer's sound settings and your DAW's audio device settings to ensure the Quantum HD 2 is selected as the input/output device. Adjust volume knobs on the interface and in your software.
- **Input Clipping:** If the input LED meters show red (clipping), reduce the gain on the corresponding input until the signal remains in the green/yellow range. Use the Auto Gain feature for quick setup.
- **Phantom Power Issues:** Ensure the 48V button is activated for condenser microphones. Confirm your microphone requires phantom power.
- **Software Not Recognizing Device:** Reinstall the latest drivers from the PreSonus website. Ensure the USB-C cable is functioning correctly and connected to a compatible port.

7. SUPPORT AND RESOURCES

For further assistance, driver updates, and additional resources, please visit the official PreSonus support website. Your hardware registration includes a perpetual license to Studio One Pro, providing access to professional

recording software.




For quick help getting started, visit:[PreSonus Official Website](#)


Your browser does not support the video tag.

Video: The official PreSonus Quantum Launch Video, providing an overview of the Quantum series.



Related Documents - Quantum HD2

	<p>PreSonus Quantum HD 2 Audio Interface Quick Start Guide</p> <p>A concise guide to getting started with the PreSonus Quantum HD 2, a 32-Bit 192 kHz USB-C Audio Interface. Learn about installation, features, and accessing resources.</p>
	<p>PreSonus Studio 1824c and 1810c High-definition USB-C Audio Interfaces Owner's Manual</p> <p>This owner's manual provides comprehensive details on the PreSonus Studio 1824c and 1810c high-definition USB-C audio interfaces, covering setup, connections, front and back panel controls, software integration with Studio One Artist and UC Surface, technical specifications, and warranty information.</p>
	<p>PreSonus Quantum ES Series USB Audio Interfaces Owner's Manual</p> <p>Comprehensive owner's manual for the PreSonus Quantum ES 2 and Quantum ES 4 USB Audio Interfaces, detailing features, setup, operation, and technical specifications for professional audio recording and production.</p>
	<p>PreSonus Quantum ES Series USB Audio Interfaces: Owner's Manual</p> <p>Comprehensive owner's manual for the PreSonus Quantum ES Series USB Audio Interfaces. Learn about MAX-HD preamps, Universal Control software, Studio One integration, setup, and technical specifications for professional audio recording.</p>

<div><p>Quantum ES 2 24-Bit 192 kHz USB-C Audio Interface Setup Manual & Quick Reference - PreSonus Inc.</p><div><div><p>STEP 1 Unpack the Quantum ES 2 and its accessories. Please refer to the Quick Reference for more information.</p></div><div><p>STEP 2 Connect the Quantum ES 2 to your computer. Please refer to the Quick Reference for more information.</p></div><div><p>STEP 3 Download and install the PreSonus Universal Control software. Please refer to the Quick Reference for more information.</p></div><div><p>STEP 4 Register your product on the PreSonus website. Please refer to the Quick Reference for more information.</p></div></div><p>STEP 5 Enjoy the high-quality sound of the Quantum ES 2.</p><p>PreSonus</p></div>	<p>PreSonus Quantum ES 2 USB-C Audio Interface: Getting Started Guide</p> <p>Get started with the PreSonus Quantum ES 2, a 24-Bit 192 kHz USB-C audio interface. This guide covers downloading Universal Control, product registration, and an overview of the interface's features and connections.</p>
<div><p>Studio 1824c and 1810c High-Definition USB-C Audio Interfaces Owner's Manual</p><div></div><p>PreSonus</p></div>	<p>PreSonus Studio 1824c & 1810c: High-Definition USB-C Audio Interface User Manual</p> <p>This manual provides comprehensive instructions for setting up, connecting, and using the PreSonus Studio 1824c and 1810c high-definition USB-C audio interfaces, including software installation, studio integration, and technical specifications.</p>