



Key Features

- 20 x 24, 32-bit 192 kHz USB-C Audio Interface
- High-performance converters with 124 dB dynamic range let you hear and capture audio with stunning clarity and fidelity.
- Custom low-latency driver provides exceptionally low audio latencies when recording.
- Two all-new, next-generation PreSonus MAX-HD preamps provide transparency and accuracy across the frequency range with +75 dB of gain to maximize the performance for today's most popular studio microphones for modern recording and broadcast.
- Discreet phantom power means consistent, full power for microphones that require it, so you'll get the most from your high-performance studio microphones.
- 2 Re-amp outputs let you send audio from your DAW to your favorite outboard gear and record it again, so you can experiment with different amps, pedals, and mic placement to get the exact sound you want without cutting multiple takes.
- Control your Quantum HD 2 right from Studio One and our Universal Control app, in addition to hardware – so you can adjust preamp gain, toggle phantom power, adjust channel settings, and more without looking away from your recording session. Perfect for dialing in optimal gain staging.
- A full-color, high-resolution screen lets you keep an eye on your input and output meters while an illuminated push encoder provides fast, intuitive control over channel and output settings.
- 16 channels of ADAT Optical input (up to 48 kHz) plus stereo S/PDIF I/O make connecting your digital gear fast and easy.
- 2 balanced 1/4-inch TRS main outputs plus 2 balanced 1/4-inch TRS line outputs and 1 high-power headphone output gives you flexible monitoring, while built-in speaker switching allows you to check your mix on multiple sets of studio monitors.

- DSP monitor mixer plus loopback audio make creating monitor and streaming mixes quick and easy.

The Culmination Of 30 Years Of Innovation

The Quantum HD 2 features two newly redesigned high-definition MAX-HD mic preamps with +75 dB of gain – making it ideally suited for today's most popular microphones. Guitarists and bassists will love the two instrument inputs, which were co-developed with Fender engineers. An Auto Gain button sets the perfect gain level for your microphones and instruments. You also get two re-amp outputs so you can send audio from your DAW to your guitar or bass amp and re-record it to experiment with different amps, pedals, and mic placements. An illuminated push encoder provides flexible control over gain level and output volume, making it great for self-produced recording.

High Performance Signal Flow

Our custom low-latency driver provides exceptionally low audio latencies when recording, and high-performance converters with 124 dB dynamic range let you hear and capture audio with stunning clarity and fidelity.

All-New MAX-HD Mic Preamps

The Quantum HD 2 features two newly designed mic preamps with +75 dB of gain. Our high-definition MAX-HD preamps are transparent, low-noise, and digitally-controlled analog, making them ideally suited to today's most popular microphones.

Co-Developed With Fender®

Built by the best ears in the business, guitarists and bassists will love the two instrument inputs, co-developed with Fender engineers – industry experts who designed them specifically for guitar and bass.

Professional Recording Software Included

Leap into 12 months of Studio One+ add-ons, exclusive content, and tools, plus a perpetual license to Studio One Professional Edition.

Auto Gain

An Auto Gain button sets the perfect gain level for your microphones and instruments, so you get the perfect take every time.

Re-Amp Outputs

Re-amp audio directly from your DAW and use amps and effects to sculpt your sounds. Send audio from your DAW to your guitar or bass amp and re-record it to experiment with different amps, pedals, and mic placements.

Universal Control App

Quantum works on any mobile or desktop device, so you're ready to record whenever inspiration strikes – whether on your phone,

tablet, or in your home studio. Critical preamp functions like preamp gain, phantom power, and more can be controlled with the Quantum HD 2's flexible front panel, or right from Studio One and the Universal Control app, so you can dial in the perfect gain staging without looking away from your recording session.

Part Number	Description	UPC Code
2777700501	Quantum HD 2	673454012150
2777703501	Quantum HD 2 AU	673454012167
2777706501	Quantum HD 2 EU	673454012174
2777707501	Quantum HD 2 JP	673454012181
2777714501	Quantum HD 2 MX	673454012198
2777704501	Quantum HD 2 UK	673454012204

Technical Specifications

Inputs and Outputs

Microphone Inputs	2
Guitar Inputs	2
Line Inputs	2
S/PDIF Input	1
Optical Input	2
MIDI Input	1
Monitor Outputs (DC coupled)	2
Line Outputs (DC coupled)	2
Re-amp outputs	2
S/PDIF Output	1
Optical Output	2
MIDI Output	1
Headphone Outputs	1
USB-C ports	1

AD / DA Conversion

Supported Sample Rates	44.1, 48, 88.2, 96, 176.4, 192
Bit Depth	32

Analog I/O

Inputs

Microphone (CH 1 - 2)

Connector Type	2x Combo-style, XLR / TRS
Max Input	+18 dBu (balanced, minimum gain)
Gain Range	0 dB to +75 dB
Frequency Response	20 Hz to 20 kHz, +/- 0.1 dB (unity gain, reference 1 kHz)
Dynamic Range	116 dB (A-weighted, minimum gain)
THD + N	0.002% (1 kHz, minimum gain)
EIN	-130 dBu (max gain, 150 Ohms, 20 kHz BW, A-weighted)
Input Impedance	1600 Ohms

Line In (CH 1 - 2)

Connector Type	2x Combo-style, XLR / TRS
Max input level	+18 dBu (balanced, minimum gain)
Frequency Response	20 Hz to 20 kHz, +/- 0.1 dB (unity gain, reference 1 kHz)
Dynamic Range	118 dB (A-weighted, minimum gain)
THD + N	0.001% (1 kHz, minimum gain)
Input Impedance	10K Ohms
Digital Trim	-10 to +10 dB

Instrument In (Ch 1 - 2)

Connector Type	2 x 1/4-inch Female
Gain Range	-7 dB to +68 dB
Max input level	+21 dBu (unbalanced, minimum gain)
Frequency Response	20 Hz to 20 kHz, +/- 0.1 dB (unity gain, reference 1 kHz)
Dynamic Range	111 dB (A-weighted, minimum gain)
THD + N	0.003% (1 kHz, minimum gain)
Input Impedance	1M Ohms

Outputs

Main Out (CH 1 - 2)

Connector Type	2x 1/4-inch Female, TRS
Max Output Level	+18 dBu (Balanced)
Frequency Response	20 Hz to 20 kHz, +/- 0.2 dB (unity gain, reference 1 kHz)
Dynamic Range	123 dB (A-weighted)
THD + N	0.001% (1 kHz, +4 dBu)
Output Impedance	51 Ohms
Trim Range	-inf dB to 0 dB

Line Out (Ch 3 - 4)

Connector Type	2x 1/4-inch Female, TRS
Max Output Level	+18 dBu (Balanced)
Frequency Response	20 Hz to 20 kHz, +/- 0.2 dB (unity gain, reference 1 kHz)
Dynamic Range	123 dB (A-weighted)
THD + N	0.001% (1 kHz, +4 dBu)
Output Impedance	51 Ohms
Trim Range	-inf dB to 0 dB

Re-Amp Out (Ch 5 - 6)

Connector Type	2x 1/4-inch Female, TRS
Max Output Level	+4 dBu (Balanced)
Frequency Response	20 Hz to 20 kHz, +/- 0.3 dB (unity gain, reference 1 kHz)
Dynamic Range	117 dB (A-weighted)
THD + N	0.001% (1 kHz, +4 dBu)
Output Impedance	100 Ohms
Trim Range	-inf dB to 0 dB

Headphone Out

Connector Type	1x 1/4-inch Female, TRS Stereo
Max Output Level	11 dBu (50 Ohms)
Frequency Response	20 Hz to 20 kHz, +/- 0.3 dB (unity gain, reference 1 kHz)
Dynamic Range	118 dB (A-weighted)

THD + N	0.001% (1 kHz)
Output Impedance	33 Ohms
Trim Range	-inf dB to 0 dB

Digital I/O

S/PDIF I/O

Connector Type	2x Phono RCA (1 in , 1 out)
Supported Sample Rates (kHz)	44.1, 48, 88.2, 96

ADAT I/O

Connector Type	Optical TOSLINK (2 in, 2 out)
Format	ADAT Digital Lightpipe with S/MUX II <ul style="list-style-type: none">• 16 channels at 44.1/48 kHz• 8 channels at 88.2/96 kHz

MIDI I/O

Connector Type	2x 5-pin DIN (off DB-9)
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Synchronization Sources

Sources	Internal, ADAT, S/PDIF
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Electrical

Connector type	DC Connector
Configuration	Internal, Universal
Power Input	12V DC, 2A

Mechanical

Product Dimensions

Length	8.5" (215mm)
Width	7.5" (215mm)
Height	1.9" (28mm)
Weight	2.9lb (1.32 kg)