



Key Features

- 4 x 4, 24-bit / 192 kHz USB-C Audio Interface
- High-performance converters let you hear and capture audio with stunning clarity and fidelity.
- Custom low-latency driver provides exceptionally low audio latencies when recording.
- All-new, next-generation PreSonus MAX-HD preamp design provides transparency and accuracy across the frequency range with +75 dB of gain to maximize the performance for a wide range of today's most popular microphones for modern recording and broadcast.
- Auto Gain button sets the perfect gain level for your microphones and instruments, so you get the perfect take every time.
- Control your Quantum ES right from Studio One and the 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.
- Bright and responsive LED metering lets you keep an eye on your input and output meters, perfect when recording alone.
- 2 balanced 1/4-inch TRS main outputs plus 2 balanced 1/4-inch TRS line outputs and 2 high-power headphone outputs for flexible monitoring. And built-in speaker switching lets you check your mix on multiple sets of studio monitors.
- Loopback audio makes creating monitor and streaming mixes quick and easy.

The Culmination Of 30 Years Of Innovation

The ES 4 features four newly redesigned high-definition MAXHD mic preamps with +75 dB of gain – making it ideally suited for today's most popular microphones. Guitarists and bassists will love the instrument inputs, which were co-developed with Fender engineers. An Auto Gain button sets the perfect gain level for your microphones and instruments, while an illuminated push encoder provides flexible control over gain level and output volume. And bright and responsive LED metering provides easy visual feedback for your inputs and outputs, 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 complete the front end to ensure that you sound your best throughout the entire signal chain.

All-New MAX-HD Mic Preamps

The Quantum ES 4 features four 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 instrument input co-developed with Fender engineers – industry experts who designed them specifically for guitar and bass.

Professional Recording Software Included

Leap into 6 months of Studio One+ with access to Studio One Professional Edition, add-ons, and more.

Auto Gain

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

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 ES 4's top 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
2777700504	Quantum ES 4	673454012327
2777714504	Quantum ES 4 MX	673454012334

Technical Specifications

Inputs and Outputs

Microphone Inputs	4
Guitar Inputs	2
Line Inputs	4
Line Outputs (DC coupled)	4
Headphone Outputs	2
USB-C ports	1
Aux power ports	1

AD / DA Conversion

Supported Sample Rates	44.1, 48, 88.2, 96, 176.4, 192
Bit Depth	24

Analog I/O

Inputs

Microphone (CH 1 - 4)

Connector Type	4x Combo-style, XLR / TRS
Max Input	+14 dBu (balanced, minimum gain)
Gain Range	0 dB to +75 dB
Frequency Response	20 Hz to 20 kHz, +/- 0.2 dB (unity gain, reference 1 kHz)
Dynamic Range	113 dB (A-weighted, minimum gain)
THD+ N	0.001% (1 kHz, minimum gain)
EIN	-129 dBu (max gain, 150 Ohms, 22 kHz BW, A-weighted)
Input Impedance	1600 Ohms

Line In (CH 1 - 4)

Connector Type	4x Combo-style, XLR / TRS
Max input level	+15 dBu (balanced, minimum gain)
Frequency Response	20 Hz to 20 kHz, +/- 0.1 dB (unity gain, reference 1 kHz)
Dynamic Range	114 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	+15 dBu (unbalanced, minimum gain)
Frequency Response	20 Hz to 20 kHz, +/- 0.2 dB (unity gain, reference 1 kHz)
Dynamic Range	111 dB (A-weighted, minimum gain)
THD + N	0.002% (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	+15 dBu (Balanced)
Frequency Response	20 Hz to 20 kHz, +/- 0.1 dB (unity gain, reference 1 kHz)
Dynamic Range	117 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	+15 dBu (Balanced)
Frequency Response	20 Hz to 20 kHz, +/- 0.1 dB (unity gain, reference 1 kHz)
Dynamic Range	117 dB (A-weighted)
THD + N	0.001% (1 kHz, +4 dBu)
Output Impedance	51 Ohms
Trim Range	-inf dB to 0 dB

Headphone Out (1-2)

Connector Type	2x 1/4-inch Female, TRS Stereo
Max Output Level	7.5 dBu (50 Ohms)
Frequency Response	20 Hz to 20 kHz, +/- 0.2 dB (unity gain, reference 1 kHz)
Dynamic Range	111 dB (A-weighted)
THD + N	0.02% (1 kHz)
Output Impedance	22 Ohms
Trim Range	-inf dB to 0 dB

Electrical

Aux Power DC Connector	USB-C (USB-C to USB-C cable required, not included)
Aux Power DC Requirements	5VDC, 2.6A

Mechanical

Product Dimensions

Length	8.4" (213 mm)
Width	6.2" (157 mm)
Height	1.9" (48 mm)
Weight	1.8 lb (0.81 kg)