Technical Specifications

Sample rates   44.1, 48, 88.2, 96, 176.4, 192 kHz
Mic/line/guitar inputs 2 x XLR/TRS "combo" jacks
1 MΩ impedance on the line/instr inputs
Analog inputs   6 x 1/4" TRS line in (balanced)
Analog outputs 10 x 1/4" TRS line out (balanced, DC coupled)
Digital I/O   1 bank (8 ch) of ADAT optical at 1x sample rates
1 bank (4 ch) of SMUX optical at 2x sample rates
Switchable to stereo TOSLink (optical S/PDIF)
1 x stereo S/PDIF on RCA (up to 96 kHz)
Computer I/O   1 x USB-C 2.0 audio class compliant
Compatible with USB Type A (with adapter or C-to-A cable)
Total audio I/O 18 in / 22 out (40 total) at 1x sample rates
14 in / 18 out (32 total) at 2x sample rates
8 in / 12 out (20 total) at 4x sample rates
MIDI I/O   1 x MIDI IN
1 x MIDI OUT
16 MIDI channels to/from computer host
Headphone   1 x 1/4" TRS stereo phone
Phantom power   2 x individual +48V
Front panel   2 x XLR/TRS combo inputs
1 x 1/4" TRS headphone output
1 x potentiometer • phone/monitor vol
2 x potentiometer • mic/instr input gain
4 x switches • (2) 48V and (2) pad
1x high-resolution white OLED display for metering/status
Power   External 12-18V DC power supply
1.0A max • tip pos or neg
Dimensions and weight (width x depth x height, enclosure only)
8.6 x 6.9 x 1.75 inches
22 x 17.5 x 4.5 cm
2.875 lbs / 1.31 kg

System Requirements

Mac System Requirements
Intel Core i3 Mac or faster (including the new M1 Macs)
4 GB RAM; 8 GB or more recommended
macOS version 10.11 or later
(Optional driver requires 10.13 or later)
Available USB port
A large hard drive (at least 500 GB for recording)

Windows System Requirements
Intel Core i3 PC (or AMD equivalent)
4 GB RAM; 8 GB or more recommended
Windows 10
Available USB port
A large hard drive (at least 500 GB for recording)

Class-Compliant Support
USB audio class compliant for plug-and-play operation on Mac or iOS (no driver required)

Included Software
CueMix 5
MOTU Performer Lite
6GB of loops and sounds from Big Fish Audio, LucidSamples, Loopmasters and MOTU

Analog I/O

Connector type	Dynamic range (A-weighted)	THD+N (unweighted)	Max level
Line Input	1/4" TRS, balanced, tip hot	120 dB -114 dB (0.0002%)	TBD
Line Output	1/4" TRS, balanced, tip hot	125 dB -114 dB (0.0002%)	TBD
Mic input	XLR, balanced, pin 2 hot	115 dB -129 dBu EIN	Gain: +74 dB
Phones	1/4", TRS stereo	118 dB -110 dB (0.0003%)	14 dBu

Compatible Mac Software

The UltraLite-mk5 ships with standard Core Audio drivers for macOS for compatibility with virtually all Core Audio-compatible apps, including:

MOTU Performer Lite
MOTU Digital Performer
Avid Pro Tools (version 9 or later)
Apple Logic Pro
Apple Logic Express
Apple Garage Band
Apple SoundTrack Pro
Ableton Live
Presonus Studio One
Propellerhead Record & Reason
Steinberg Cubase
Cockos Reaper
Native Instruments Kontakt
Waves stand-alone apps (and plug-ins, via compatible host)
Compatible Windows Software

The UltraLite-mk5 ships with standard ASIO and Wave drivers for Windows 10 for compatibility with virtually all ASIO- and Wave-compatible audio apps, including:

MOTU Performer Lite
MOTU Digital Performer
Avid Pro Tools (version 9 or later)
Ableton Live
Cakewalk Sonar
Cockos Reaper
Image Line FL Studio
Native Instruments Kontakt
Presonus Studio One

Propellerhead Record & Reason
Sony Vegas Pro
Sony Sound Forge
Sony Acid
Steinberg Cubase
Waves stand-alone apps (and plug-ins, via compatible host)

UltraLite-mk5 Feature Highlights

18 x 22 USB audio interface with DSP, mixing and effects
Superb analog audio performance driven by ESS Sabre32 Ultra™ DAC Technology
Uultra-low latency for host software processing
Precision front-panel metering for all analog I/O with high-resolution OLED display
2x mic/line/hi-Z guitar inputs on combo XLR/TRS
Individual preamp gain and 48V phantom power for each mic input
Measured -129 dB EIN on mic inputs
10x balanced, DC-coupled 1/4-inch TRS analog outputs with 125 dB dynamic range
Hardware (direct) monitor mixing for each analog output pair (6 mix busses)
6x balanced 1/4-inch TRS analog inputs with measured 120 dB dynamic range
1x optical digital I/O (8-channel optical or 2-channel TOSLink)
2x RCA S/PDIF digital I/O
1x headphone out (driven by ESS converters) with independent volume control
MIDI in/out
Support for 44.1 to 192 kHz sample rates
USB audio class compliant for plug-and-play operation on Mac (no driver required)
Windows driver with 2.4 ms Round Trip Latency (32 sample buffer at 96 kHz)
Mac driver (optional, for 2.4 ms RTL@32/96 kHz and loopback feature)
iOS compatible (USB audio class compliant)
Driver loopback for capturing host output, live streaming and podcasting
DSP-driven 22 x 6 monitor mixer (separate monitor mix for each analog output pair)
On-board effects including reverb, 4-band parametric EQ and dynamics
Rugged steel construction
CueMix 5 app to control mixing and settings from your Mac, PC or iOS device
MOTU Performer Lite 10 workstation software included
100+ instruments (in Performer Lite)
Over 6 GB of included free loops, samples and one-shots
Rack-mountable as a single unit or side by side (mounting kits sold separately)
Two-year warranty