

STUDIO-CAPTURE

USB2.0 Audio Interface

VS PREAMP

VS STREAMING

AUTO-SENS

FPT

for Microsoft® Windows®8/ Windows®7 SP1/
Windows Vista® SP2/ Windows®XP SP3

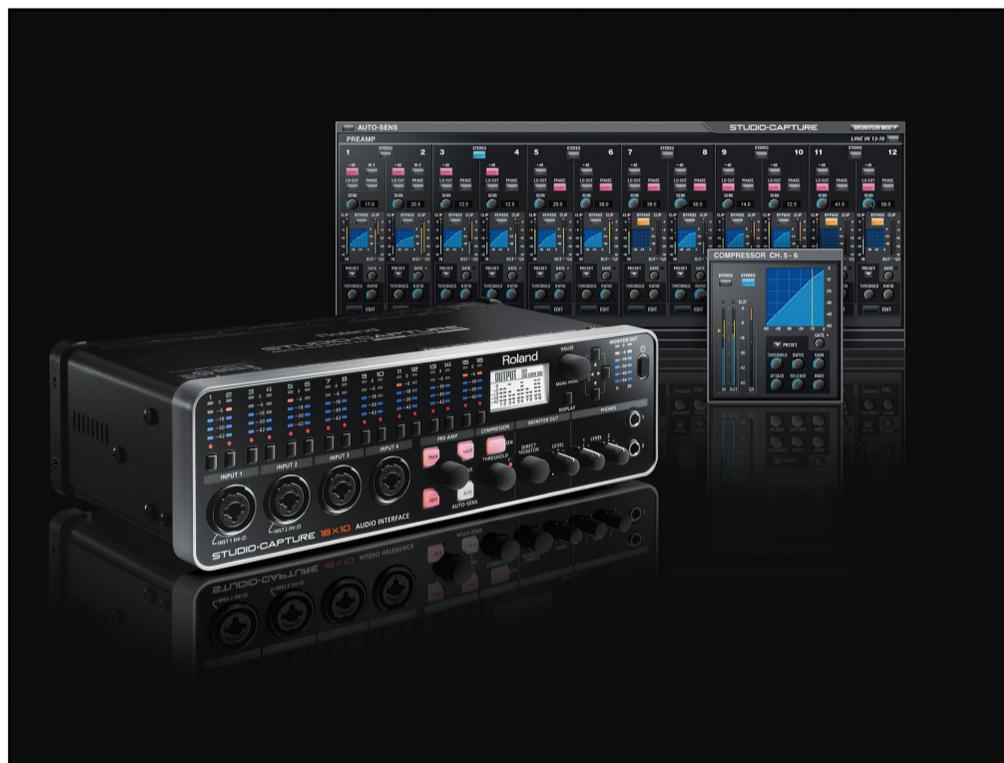
for Mac OS X

ASIO

USB 2.0

Flagship 16x10 Interface with 12 Premium Mic Preamps

With the new STUDIO-CAPTURE, Roland once again raises the performance standard for computer-based audio production. The latest addition to the acclaimed CAPTURE family boasts 12 premium-grade mic preamps, an industry first for a compact USB audio interface. A total of 16 audio inputs, 10 audio outputs, and MIDI I/O offers massive connectivity for pro-level setups, all in a single, tabletop unit that fits easily into a travel bag. Other top-flight features include 24-bit/192 kHz audio quality, comprehensive front-panel metering, XLR monitor outputs with dedicated level control, dual headphone outputs, rock-solid drivers with VS STREAMING technology, and much more. Durable, portable, and ready to take on large-scale recording projects both in the studio and on the road, STUDIO-CAPTURE stands head and shoulders above all other USB audio interfaces on the market.



- High-performance USB 2.0 audio interface for studio and mobile production
- 16 audio inputs and 10 audio outputs, including 12 premium mic preamps (VS PREAMP)
- VS STREAMING delivers ultra-stable, low-latency driver performance for Windows and Mac
- AUTO-SENS intelligently sets optimal input levels for all preamps
- Individual input/output meters and input channel buttons
- Four independent, software-controlled monitor mixes
- XLR monitor out, direct monitor, and dual headphone outputs with independent front-panel level knobs
- Coaxial digital I/O; MIDI I/O with FPT
- Expand your I/O by using two STUDIO-CAPTUREs together, both controlled with a single driver
- 2U rackmount ears included

Gallery



STUDIO-CAPTURE

USB2.0 Audio Interface

❖ Top Quality for Modern Audio Production

Combining pro-level audio performance, abundant I/O, and a versatile mobile design, STUDIO-CAPTURE is a powerful solution for today's musicians, composers, and recording engineers. It delivers quality equivalent to dedicated rackmount audio interfaces costing much more, all in a compact, go-everywhere package that's equally suited for traveling production, tabletop use in home studios, or permanent installation in commercial studios with the included rack ears. The 16 audio inputs, 12 mic preamps, and flexible monitor mixing allow you to track most bands without adding any additional hardware, or simultaneously connect multiple synthesizers and other devices in large-scale composing setups. To take on really big projects, you can seamlessly expand your I/O to 32 inputs and 24 mic preamps simply by adding a second STUDIO-CAPTURE.

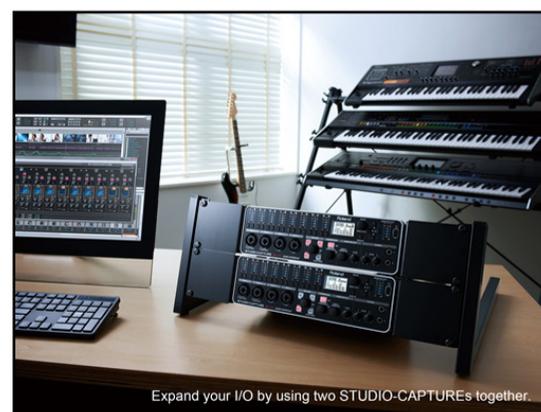
❖ 12 Premium Mic Preamps

Among its many standout features, STUDIO-CAPTURE offers 12 digitally controlled mic preamps (VS PREAMPS), built with premium-grade components for exceptional low-noise performance, high headroom, and transparent sound quality. 12 XLR/TRS combo inputs are provided for the preamps, with four inputs conveniently located on the front panel for quick and easy access. Available on each channel is independent phantom power, a low-cut filter, phase invert, and digital compression, accessible via the included software control panel.

❖ Generous and Flexible I/O

STUDIO-CAPTURE is equipped with a total of 16 input channels and 10 output channels. With the versatile, space-saving combo jacks, each of the 12 XLR mic inputs can alternately be used as a balanced/unbalanced 1/4-inch line input, while inputs 13-16 have their own dedicated rear-panel TRS jacks. Inputs 1 and 2 can be switched to Hi-Z operation for connecting guitars and basses directly, while inputs 15/16 can be assigned to the coaxial digital input. Eight analog outputs are provided on TRS jacks, with the main stereo outputs mirrored on XLR jacks. Two additional outputs (9/10) are available via a coaxial digital jack. STUDIO-CAPTURE also features MIDI I/O, with Roland's proprietary FPT processing for superior high-speed performance.

Gallery



Expand your I/O by using two STUDIO-CAPTUREs together.





STUDIO-CAPTURE

USB2.0 Audio Interface

❑ High-Performance VS STREAMING Technology

STUDIO-CAPTURE offers high-resolution, 24-bit recording at rates up to 192 kHz, with incredible stability and industry-leading low-latency USB performance provided by Roland's proprietary VS STREAMING technology. All current Mac and PC DAW platforms are supported through ASIO 2.0/WDM (Windows) and Core Audio (Mac) drivers. Thanks to VS STREAMING, you can expand your I/O by using two STUDIO-CAPTUREs on the same USB bus without compromising stability or audio quality.

❑ AUTO-SENS: Perfect Levels at the Touch of a Button

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❑ Comprehensive Monitoring and Metering

Bright, responsive LED meters let you keep an eye on levels for individual input and output channels and the MONITOR OUT, while dedicated input channel buttons and other intuitive controls make it easy to navigate the built-in display. The MONITOR OUT section features a dedicated LEVEL knob for control room volume, plus a DIRECT MONITOR knob for listening to selected input signals. Two headphone jacks—each with their own level knob—allow a musician and engineer to monitor at the same time without additional hardware.

❑ Flexible Monitor Mixing with Effects

Beyond traditional audio interfacing, STUDIO-CAPTURE offers four independent Direct Mixers for zero-latency monitoring, operated via the software control panel. Powered by STUDIO-CAPTURE's internal DSP, each mix can be routed to any of the outputs, perfect for sending custom monitor mixes to headphones, speakers, or recording devices. Mix configurations can be saved for later use, providing quick setups for many different applications. A high-quality reverb processor is available for monitoring, allowing singers and instrumentalists to record dry tracks while listening to great-sounding ambience effects.



STUDIO-CAPTURE

USB2.0 Audio Interface

STUDIO-CAPTURE Specifications

- Number of Audio Record/Playback Channels

Sampling Rate: 96 kHz, 48 kHz, 44.1 kHz

Record: 16 channels

Playback: 10 channels

Sampling Rate: 192 kHz

Record: 8 channels

Playback: 4 channels

- Signal Processing

PC Interface: 24 bits

AD/DA Conversion: 24 bits

- Sampling Rate

AD/DA Conversion: 192 kHz, 96 kHz, 48 kHz, 44.1 kHz

DIGITAL (IN/OUT): 96 kHz, 48 kHz, 44.1 kHz

- Nominal Input Level (variable)

Input 1--12 Jacks (XLR type): -60-- -2 dBu

Input 1--12 Jacks (1/4-inch TRS phone type): -54--+4 dBu

Input 13--16 Jacks (1/4-inch TRS phone type): -20, -10, +4 dBu

- Nominal Output Level

OUTPUT 1--8 Jacks: +4 dBu (balanced)

- Headroom

18 dB

- Input Impedance

Input 1--12 Jacks (XLR type): 8.2 k ohms (balanced)

Input 1--12 Jacks (1/4-inch TRS phone type): 18 k ohms (balanced)

Input 13--16 Jacks (1/4-inch TRS phone type): 38 k ohms (balanced)

- Output Impedance

OUTPUT 1--2 Jacks (XLR type): 600 ohms (balanced)

OUTPUT 1--8 Jacks (1/4-inch TRS phone type): 2k ohms (balanced)

PHONES: 47 ohms

- Frequency Response

192.0 kHz: 20 Hz--60 kHz (+0/-2 dB), 20 Hz--90 kHz (+0/-8 dB)

96.0 kHz: 20 Hz--40 kHz (+0/-2 dB)

48.0 kHz: 20 Hz--22 kHz (+0/-2 dB)

44.1 kHz: 20 Hz--20 kHz (+0/-2 dB)

- Residual Noise Level

INPUT 1--2 -> OUTPUT 1--2: -90 dBu typ. (SENS = min., Input terminated with 600 ohms, IHF-A)

* Input Channel Fader = Unity

- Dynamic Range

AD Block INPUT 1--2: 105 dB typ. (SENS = min.)

DA Block OUTPUT 1--2: 114 dB typ.

- Display

Graphic LCD 128 x 64 dots

- Connectors

INPUT 1--12 Jacks *1: XLR type (balanced, phantom power *2: DC +48 V (unloaded maximum), 10 mA (maximum load))

INPUT 1--16 Jacks: 1/4-inch TRS phone type (balanced)

PHONES Jack: Stereo 1/4-inch phone type

OUTPUT 1--8 Jacks: 1/4-inch TRS phone type (balanced)

COAXIAL IN Jack: RCA phono type (conforms to IEC60958)

COAXIAL OUT Jack: RCA phono type (conforms to IEC60958)

MIDI (IN, OUT) Connectors

USB Port: USB Type B

DC IN Jack

*1 INPUT 1--2 jacks support high impedance

*2 Provided on all XLR-type input jacks. Current value is per channel. Total must not exceed 50 mA.

- Interface

Hi-Speed USB

- Power Supply

AC Adaptor

- Current Draw

1.6 A

- Dimensions

284 (W) x 162 (D) x 89 (H) mm

11-3/16 (W) x 6-7/16 (D) x 3-9/16 (H) inches

- Weight (excluding AC adaptor and rack mount angles)

1.9 kg

4 lb 4 oz

- Accessories

Owner's Manual

Block Diagram Leaflet

AC Adaptor

STUDIO-CAPTURE Driver CD-ROM

Rack Mount Angle x 2

USB Cable

License Agreement

* 0 dBu = 0.775 Vrms

All specifications and appearances are subject to change.