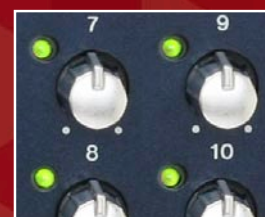




The **US-1641** is a single-rackspace USB 2.0 Audio/MIDI interface packed with I/O: 16 inputs and four outputs can be used simultaneously, making it ideal for live performance recording.

The **US-1641** has eight studio-quality microphone inputs with phantom power and level indicators, two line/instrument switchable inputs on the front, four additional balanced line inputs on the rear, four line-level outputs, digital SPDIF I/O (output switchable to AES/EBU), independent monitor and headphone outputs with separate level controls and 16 channels of MIDI I/O. It offers zero-latency hardware monitoring and sampling rates up to 96kHz at 24-bit resolution. Cubase LE4 and TASCAM's own Continuous Velocity Piano are supplied as standard.

- ▶ USB audio interface with 16 inputs and 4 outputs
- ▶ 8 mic/line inputs with phantom power and level indicators on front panel
- ▶ Two 6.3-mm balanced line/instrument inputs on front
- ▶ Four more balanced line inputs on rear panel
- ▶ Four line outputs
- ▶ Separate stereo 6.3-mm monitor output
- ▶ Stereo digital I/O (input: SPDIF, output: switchable between SPDIF and AES/EBU)
- ▶ Analogue and digital inputs can be used simultaneously
- ▶ 16-channel MIDI I/O
- ▶ Separate monitor and headphone level controls
- ▶ Zero-latency hardware monitoring
- ▶ USB 2.0 interface
- ▶ Up to 96 kHz sampling rate at 24-bit resolution without reducing the number of inputs
- ▶ Supports Windows XP, Windows Vista 32 and Mac OS X (10.4 and higher)
- ▶ Supports Intel Mac
- ▶ Includes Steinberg Cubase LE 4 (Mac/PC)
- ▶ Includes Tascam Continuous Velocity Piano (PC)
- ▶ 1-U rackmount chassis



US-1641

USB Audio/MIDI Interface (16 in 4)

Specifications

Analogue inputs and outputs	
Mic inputs 1–8	XLR-3-31 (balanced)
Input impedance	2.2 kOhm
Input level	–58 dBu (max. Gain) to –2 dBu (min. Gain)
Headroom	16 dB
Line in/Guitar inputs 9–10	6.3-mm phone jack
LINE IN/GUITAR switch set to LINE IN (balanced)	
Input impedance	10 kOhm
Nominal input level	–42 dBu (max Gain) to +4 dBu (min. Gain)
Headroom	16 dB
LINE IN/GUITAR switch set to GUITAR (unbalanced)	
Input impedance	700 kOhm
Nominal input level	–52 dBV (max Gain) to –6 dBV (min. Gain)
Headroom	6 dB
Inputs 11–14	6.3-mm phone jack (balanced)
Input impedance	10 kOhm
Nominal input level	+4 dBu or –10 dBV (selectable)
Headroom	16 dB
Line outputs 1–4	6.3-mm phone jack (balanced)
Output impedance	100 Ohm
Nominal output level	+4 dBu
Maximum output level	+20 dBu
Monitor output (L/R)	6.3-mm phone jack (balanced)
Output impedance	100 Ohm
Nominal output level	+4 dBu
Maximum output level	+24 dBu
Phones output	6.3-mm stereo phone jack
Maximum output level	50 mW + 50 mW (32 Ohm, 1 % distortion)

Digital inputs and outputs	
Digital input	RCA
Signal format	IEC 60958 Consumer (SPDIF)
Level	0.5 Vpp at 75 Ohm
Digital output	RCA
Signal format	Software-selectable between IEC60958 (SPDIF) and IEC60958 Professional (AES/EBU)
Level	0.5 Vpp at 75 Ohm

Other inputs and outputs	
MIDI input	5-pin DIN connector (standard MIDI format)
MIDI output	5-pin DIN connector (standard MIDI format)
USB connector	USB Series B connector
Format	USB 2.0

Audio performance	
Delay (44.1 kHz sampling rate)	0.29 ms (A/D conversion) 0.20 ms (D/A conversion)
Delay (96 kHz sampling rate)	0.63 ms (A/D conversion) 0.44 ms (D/A conversion)
Sampling rate (internal clock)	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Quantization	24-bit
Signal-to-noise ratio (MIX knob set to COMPUTER)	
Mic input 1–8 -> Line output 1–4	–60 dBu (max. Gain)
Line input 9–10 -> Line output 1–4	–55 dBu (min. Gain)
Inputs 11–14 -> Monitor output L/R	–70 dBu (MONITOR knob set to maximum)
Signal-to-noise ratio (MIX knob set to INPUT)	
All inputs -> Monitor output L/R	–60 dBu (GAIN knobs and MONITOR knob set to maximum)
Frequency response (Line output, –10 dBV)	
Normal sampling rate	20 Hz – 20 kHz, ±1 dB
High sampling rate	20 Hz – 40 kHz, +1 dB/–3 dB
Total harmonic distortion (20 Hz – 20 kHz)	0.01 % (all outputs, minimum gain, maximum input level, excluding Guitar input)
Crosstalk (1 kHz)	90 dB

Host computer compatibility	
Operating system	Windows XP SP2 or Windows Vista (32-bit versions) Mac OS X Version 10.4 or higher
Drivers	
Windows XP, Vista	WDM (KS), ASIO/ASIO2 and GSIF2 interface
Macintosh OS X	Core Audio and MIDI interface

Other specifications	
Power supply	USA/Canada: 120 V AC, 60 Hz Europe: 230 V AC, 50 Hz Australia: 240 V AC, 50 Hz
Power consumption	10 W
Overall dimensions (W x D x H)	483 mm x 280 mm x 44 mm
Weight	3.2 kg



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