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US-2000

16/4-Channel USB Audio Interface

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The US-2000 is Tascam's premiere multi-channel USB audio interface with 16 inputs and 4 outputs packed into only one rackspace. It has eight XLR mic inputs with phantom power, enough to record a large band, choir or drumset. An additional six balanced jack line inputs are provided for keyboards, amp modelers, effects processors and other line level sources. A stereo S/PDIF digital input and output bring the total to 16 inputs that can be recorded simultaneously.

The US-2000 transmits your sounds at up to 96 kHz sample rate and 24-bit resolution over a high-speed USB 2.0 connection to a Windows or Macintosh computer. To keep track of all of your input and output signals, the unit offers a meter bridge made up of 100 LEDs. Connections are located on the rear panel, except for a pair of combo jacks on the front for easy access. The front pair can be switched to instrument level for direct connection of guitars or bass guitars.

Included with the US-2000 is a copy of Cubase LE4 from Steinberg. This full-featured recording software captures up to 48 tracks of audio with another 64 MIDI tracks. You can edit your tracks to perfection using a variety of modes and tools. Automated mixing is included to create the perfect master. Cubase LE4 supports VST effect and instrument plug-ins, whith an assortment included with the application. Tascam's copy of Cubase LE4 can record 16 channels at a time so you can take advantage of all the inputs on the US-2000.

Main Features

- High-quality, 24-bit/96-kHz USB 2.0 audio interface
- Provides 16 audio inputs and 4 audio outputs for a Windows or Macintosh computer
- 8 balanced microphone inputs with high-grade preamps
  - 6 XLR connectors on the rear
  - 2 XLR/jack combo connectors on the front (switchable to Instrument level)
  - Inserts on mic channels 7 and 8
  - 48 Volt phantom power switchable for two channels each
- 6 balanced line inputs on rear (phone connectors, input level switchable between +4 dBu and –10 dBV)
- Mono switches for each analogue input channel pair
- Stereo digital input (SPDIF) and stereo digital output (selectable between SPDIF and AES/EBU)
- 4 balanced line outputs
- High-level headphones output
- Direct monitor function allows zero-latency monitoring of inputs
- Separate level controls for Phones output, Monitor output, signals sent from computer, and signals received via the input connectors
- 5-segment level meter for each input and output
- AC-powered (adapter not required)
- Solid metal chassis with aluminum front panel
- Cubase LE4 included

Specifications

Analogue audio inputs and outputs

MIC INPUTS (balanced) terminals (1-8)	XLR-3-31 (1: GND, 2: HOT, 3: COLD)
Input impedance	2.4 kOhm
Nominal input level	–60 dBu (When input gain konb is at maximum) –4 dBu (When input gain knob is at minimum)
Maximum input level	+12 dBu (When input gain knob is at minimum)

INST IN (unbalanced) terminals (7-8)	6.3 mm standard phone jack
Input impedance	1 MOhm
Nominal input level	–56 dBu (When input gain konb is at maximum) 0 dBu (When input gain knob is at minimum)
Maximum input level	+16 dBu (When input gain knob is at minimum)
LINE IN (balanced) terminals (9-14)	6.3 mm TRS standard phone jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Input impedance	10 kOhm
Nominal input level	–10 dBV/+4 dBu
Maximum input level	+6 dBV/+ 20 dBu
LINE OUTPUTS (balanced) terminal	6.3 mm TRS standard phone jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Output impedance	100 Ohm
Nominal output level	+4 dBu
Maximum output level	+20 dBu
MONITOR OUT (Balanced) terminal	6.3 mm TRS standard phone jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Output impedance	100 Ohm
Nominal output level	+4 dBu
Maximum output level	+20 dBu
INSERT (unbalanced) terminal	6.3 mm TRS standard phone jack (Tip: SEND, Ring: RECEIVE, Sleeve: GND)
Output impedance	100 Ohm
Nominal output level	–2 dBu
Maximum output level	+14 dBu
Input impedance	10 kOhm
Nominal input level	–2 dBu
Maximum input level	+14 dBu
PHONES jack	6.3 mm standard stereo phone jack
Maximum output power	100 mW + 100 mW or more (THD + N less than 1%, 32Ω load)

Digital audio input and output

DIGITAL IN (COAXIAL) terminal	RCA pin jack
Compatible signal format	IEC60958-3 (S/PDIF)
DIGITAL OUT (COAXIAL) terminal	RCA pin jack
Compatible signal format	IEC60958-3 (S/PDIF) or AES3-2003 (AES/EBU), selectable using control panel

Other inputs and outputs

USB terminal	USB B type 4 pin
Format	USB 2.0 High speed (480 MBit/s)

Audio performance

Sampling frequency	44.1/48/88.2/96 kHz
Resolution	16/24 bit
Frequency response (MIC to MONITOR OUTPUT)	44.1/48 kHz sample rate: 20 Hz – 20 kHz, ±1.0 dB 88.2/96 kHz sample rate: 20 Hz - 40 kHz, +0.5/–2.0 dB
Signal-to-noise ratio	90 dB(A) (LINE IN to MONITOR OUTPUT, 20 kHz LPF)
Total harmonic distortion	<0.01% (LINE IN to MONITOR OUTPUT, 1 kHz, +20 dBu input, 20 kHz LPF)

Computer requirements

Windows

Supported operating systems	Windows XP 32 bit SP2 or later Windows XP 64 bit SP2 or later Windows Vista 32 bit SP2 or later Windows Vista 64 bit SP2 or later
Supported computer systems	Windows compatible computer with a USB 2.0 port

CPU/clock	Pentium 4 1.4 GHz or faster AMD Athlon 1.4 GHz or faster (or equivalent processor)
Memory	512 MB or more for Windows XP 32-bit and Windows Vista 32-bit 1 GB or more for Windows XP 64-bit and Windows Vista 64-bit
Macintosh	
Supported operating systems	Mac OS X 10.4.11 or later Mac OS X 10.5.6 or later
Supported computer systems	Apple Macintosh series equipped with a USB port as standard equipment
CPU/clock	Power PC G4 1 GHz or faster, or Intel processor
Memory	512 MB or more

Power requirements and other specifications

Power supply	100–240 V AC, 50–60 Hz
Power consumption	14 W
Dimensions (W x H x D)	438 mm x 44 mm x 280 mm
Weight	2.5 kg
Operating temperature	5–35 °C
Bundled software	Cubase LE4 (for Windows and Mac OS X)

Design and specifications subject to change without notice.

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