

US-322

USB Audio Interface (2 in / 2 out)



The US-322 combines compelling new technologies like on-board digital mixer and on-board digital effects along with advances on the wildly popular US-122MKII interface. The US-322 sports an aluminum casing for rugged reliability plus new improved HDDA (High Definition Discrete Architecture) microphone preamplifiers. These HDDA mic pres offer a wider frequency response (10 Hz to 68 kHz), high S/N ratio (98 dB), very low input noise (-120 dBu) and low distortion (0.0045 %) – qualities rarely achieved in interfaces this affordable. This certifies this unit as one of the best sounding interfaces to be released by Tascam yet.

The US-322 features two audio inputs with XLR connectors for microphones and TRS connectors for line-level sources. Input one can be switched to high impedance for direct connection of an electric guitar or bass. Two line outputs are provided with TRS and RCA connectors.

A "Mixer Panel" button will instantly bring Tascam's new mixing console and on-board insert/send effects (compressor, EQ, reverb) to the computer screen for easy-to-use, versatile recording. The digital mixer offers two operational modes for multi-tracking and stereo mixes. Both units are bundled with Cubase LE6.

Main Features

- **Provides two audio inputs and two audio outputs for a Windows or Mac computer**
- **Two XLR/TRS balanced mic/line inputs**
 - Tascam HDDA microphone preamplifiers (High Definition Discrete Architecture means a differential preamplifier circuit based on selected transistors and other selected electronic components offering high S/N ratio, low input-referred noise and low distortion)
 - Switchable phantom power (48 volt) for condenser microphones
 - One TRS input switchable to high impedance for use with guitars, basses, etc.
- **Two line outputs (RCA or balanced TRS)**
- **Sampling rate up to 96 kHz / 24 bit**
- **On-board digital mixer, selectable between "Multi Track" and "Stereo Mix" modes:**
 - Multi Track mode for DAW recording and composing: Create a monitor mix independent of the actual recording levels
 - Stereo Mix mode for internet broadcasting and video editing: Create a stereo mix of two different sources plus loop-back signal from the computer
- **Mixer panel for intuitive mixing and effects handling on the computer screen**
- **Dedicated button for opening/closing the mixer panel on the computer**
- **On-board effects:**
 - Insert effects (compressor, de-esser, 3-band EQ etc.) to be used for input channels or the stereo mix
 - Reverb send effect to be used for any mixer channel
 - One input effect plus Reverb can be used simultaneously at sampling rates of 44.1 kHz and 48 kHz
 - One digital effect can be used at sampling rates of 88.2 kHz and 96 kHz
- **Loop-back function allows sounds from the computer to be mixed and sent back to the computer (in Stereo Mix mode)**
- **Low-latency monitoring**
- **Monitor mix control for adjusting the level balance between signals from external devices and signals from the computer**
- **Output selector for each output, selectable between internal mixer and computer signals**
- **Headphones output with level control**
- **USB 2.0 bus-powered, no AC adapter required**
- **Cubase LE6 included**
- **Compatible computer operating systems:**
 - Windows XP, Windows 7, Windows 8
 - Mac OS X Snow Leopard, Lion, Mountain Lion

Specifications

Audio specifications

Sample rate	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Quantization	24-bit

Analogue audio inputs and outputs

Microphone inputs (MIC INPUT 1/L, MIC INPUT 2/R)	XLR-3-31
Input impedance	2.2 kOhm
Nominal input level (INPUT knob at maximum)	-65 dBu
Minimum input level (INPUT knob at minimum)	-22 dBu
Maximum input level (INPUT knob at minimum)	-6 dBu
Line inputs (LINE/GUITAR INPUT 1/L, LINE INPUT 2/R)	6.3-mm TRS jack
INPUT 1/L when MIC/LINE-GUITAR switch set to MIC/LINE and INPUT 2/R	
Input impedance	15 kOhm
Nominal input level (INPUT knob at maximum)	-39 dBu
Minimum input level (INPUT knob at minimum)	+4 dBu
Maximum input level (INPUT knob at minimum)	+20 dBu
INPUT 1/L when MIC/LINE-GUITAR switch set to GUITAR	
Input impedance	1 MOhm
Nominal input level (INPUT knob at maximum)	-55 dBV
Nominal input level (INPUT knob at minimum)	-12 dBV
Maximum input level (INPUT knob at minimum)	+4 dBV
Line outputs (LINE OUT 1/L, LINE OUT 2/R)	6.3-mm TRS jack
Output impedance	100 Ohm
Nominal output level	+4 dBu
Maximum output level	+20 dBu
Line outputs LINE OUT 1/L, LINE OUT 2/R	RCA pin jacks
Output impedance	200 Ohm
Nominal output level	-10 dBV
Maximum output level	+6 dBV
Headphones outputs (PHONES)	6.3-mm stereo phone jack
Maximum output power	18 mW + 18 mW (THD+N ≤1%, into 32 Ohm)

Other inputs and outputs

USB	B-type, 4-pin
Format	USB2.0 High speed (480 MHz)

Audio performance

ADC chipset dynamic range	102 dB (48 kHz, A-weighted)
DAC chipset dynamic range	106 dB (44.1 kHz, A-weighted)
Frequency response, MIC IN to LINE OUT	10 Hz – 40 kHz, ±3.0 dB (88.2/96 kHz, JEITA)
Frequency response, MIC IN to PHONES	10 Hz – 30 kHz, ±1.0 dB (88.2/96 kHz, JEITA)
S/N ratio	98 dB or higher (MIC IN to LINE OUT, gain knob at minimum, 88.2/96 kHz, JEITA)
Equivalent input noise	-120 dBu or less (MIC IN to LINE OUT, gain knob at maximum, 88.2/96 kHz, JEITA)
Total harmonic distortion	0.0045 % or less (MIC IN to LINE OUT, gain knob at minimum, 88.2/96 kHz, JEITA)

Computer requirements

Supported operating systems, Windows	Windows XP, 32-bit, SP3 or later, Windows XP, 64-bit, SP2 or later, Windows 7, 32-bit, SP1 or later, Windows 7, 64-bit, SP1 or later, Windows 8, 32-bit, Windows 8, 64-bit (Windows Vista 32/64-bit not supported)
Hardware requirements, Windows	Windows compatible computer with a USB2.0 port CPU/clock speed: Dual core processor 2 GHz or faster (x86) Memory: 2 GB or more
Supported operating systems, Mac OS X	Mac OS X 10.6.8 (Snow Leopard), Mac OS X 10.7.X (Lion), Mac OS X 10.8.X (Mountain Lion)
Hardware requirements, Mac OS X	Apple Mac with a USB2.0 port CPU/clock speed: Dual core processor 2 GHz or faster (x86) Memory: 2 GB or more
Supported audio drivers	ASIO 2.0, WDM (MME), Core Audio
Supported remote control protocol	Mackie Control, HUI

Power requirements and other specifications

Power	Supplied by USB from a computer (5 V, 500 mA maximum current)
Power consumption	2.5 W
External dimensions (L x W x H)	140 mm x 140 mm x 42 mm (without projections)
Weight	500 g
Operating temperature range	5–35 °C
Bundled software	Cubase LE (for Windows or Mac OS X)

Design and specifications subject to change without notice.

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