US-4x4

USB Audio/MIDI Interface (4 in, 4 out)

As a 4-input/4-output USB audio/MIDI interface, the US-4x4 is perfect for music creation – and novice users in particular. It offers serious recording capabilities with 96 kHz/24-bit quality with easy-to-understand operation so users can make high-quality recordings as soon as the interface is connected.

Mic preamps are the key to audio quality, and the Ultra-HDDA mic preamps in the US-4x4 boasts –125 dBu EIN rating which means a very, very low noise floor. Because of the wide dynamic range, this interface can also be used with dynamic microphones in addition to condenser mics. This makes it ideal for a variety of applications from recording vocals, pianos and acoustic guitars.

The radical eye-catching angled design was crafted by a German designer, who has worked on numerous well-known devices used for music creation, and is optimized for ease of use on the desktop.

The newly designed driver software is easy to install, and easy to master by anyone. Operation has been tested with major DAW applications, so the user can choose their favourite DAW without concern. The US-4x4 can also be used as audio interface with iPads and other popular iOS devices by simply utilizing a genuine Apple Lightning-to-USB camera adapter (an AC adapter for use with iOS devices is already included as standard).

With the potential for future use with other DAWs and iOS devices, four microphone preamps for multi-mic setups and four configurable balanced outputs, the US-4x4 is the ideal choice for the novice user requiring more than two audio channels.

Details

Ultra-HDDA mic preamps provide pristine audio quality

Our original Ultra-HDDA mic preamps allow you to input high-quality audio from any audio source just by turning a knob. These are the same mic preamps that are in our HS-P82 professional recorders, which are popular in the broadcast and film industry. These versatile preamps can handle both condenser and dynamic mics, and will allow you to enjoy high-quality recording even if you are not an expert. These versatile preamps also feature line-level inputs for keyboards and other equipment.

- Built-in Ultra-HDDA mic preamps have discrete construction that achieve −125 dBu EIN (Equivalent Input Noise)
- The interfaces employ NE5532 op-amps for the audio input and output stages
- XLR/TRS jacks allow the input of condenser mics and the balanced connection of synthesizers and other equipment
- Wide dynamic range supports dynamic microphone use
- Guitars can be directly connected enabling the use of 3rd-party plug-in effects

Simple, easy-to-understand operation and a newly-developed USB driver

One issue when recording using a computer is latency, which is when audio signals are delayed through digital circuitry. Another is setting up the driver software that is used when connecting an audio interface to a computer. In order to eliminate these problems, we developed new driver software and a low-latency driver that is easy to install. Furthermore, by making the external structure of these interfaces as simple as possible, the Tascam US-4x4 and **US-2x2** allow users who are not expert users of audio equipment to operate them without concern.

- High resolution recording up to 96 kHz/24-bit
- USB 2.0 computer connection
- Zero-latency direct monitoring function
- Driver software can be installed without connecting the interface

Sleek industrial design that inspires creativity with a practical interface

We have applied the engineering expertise from years of making audio interfaces to create products that are both pioneering and practical. With its distinctive style, this interface will fit perfectly on the desktops of musicians and will stimulate creativity.

- Angled design provides excellent usability on a desktop
- Separate volume controls for headphones and line output

Support for iPads and other iOS devices


You will not need another audio interface if you decide you want to make music using an iPad or another iOS device. The performance of these interfaces has been tested with not only the bundled digital audio workstations (DAW), but also with other popular recording software – you can continue to use them even if you change DAW software. Since these units include MIDI inputs and outputs, they can also be used as MIDI interfaces.

- Connect with an iPad or another iOS device
- Tested with Sonar, ProTools, Cubase, Live, Studio One, and Garage Band
- MIDI input and output enable connection with keyboards and other MIDI devices

Multi-mic recording – perfect for use in live performances


The US-4x4 has four Ultra-HDDA mic preamps. Since up to four condenser mics can be used at the same time, this interface is perfect for multi-mic recording of vocals and instruments simultaneously. The US-4x4 features four TRS jack outputs, so the individual inputs can be output in parallel with the stereo output – often done for live performances. The US-4x4 includes an AC adapter as a standard accessory - recommended if the US-4x4 will be connected to an iOS device. TIP: By using an audio interface to output the sound from a commercial synthesizer app, a richer sound can be achieved.

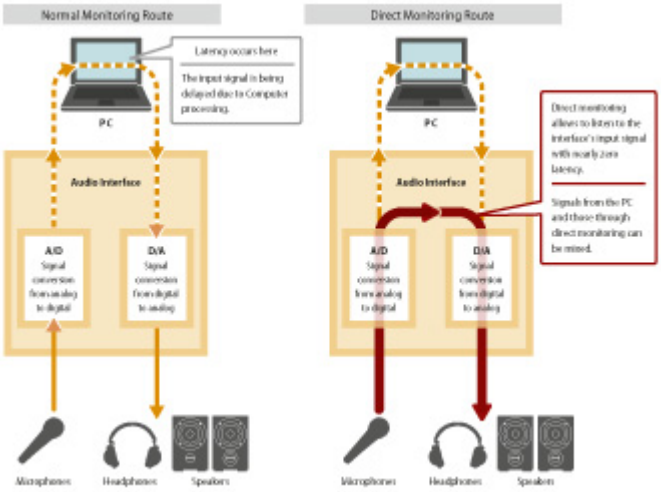
- MTR mode enables music production similar to using a dedicated multitrack recorder
- Reverb gives vocal and instrumental performances a pleasing sense of space

Bundled DAW software enables music creation right out of the box


A Software license for Cubase LE is bundled with this interface - you can start making music from the day of purchase using this DAW application which can also be upgraded to a more advanced version if desired.

Note: The upgrades may require a fee.

What is Direct Monitoring?



When recording audio with a computer, input signals are usually routed through the interface, the computer, and then back to the interface's outputs. While signals pass the A/D and D/A converters in your interface without any noticeable delay, audio processing by the computer can lead to a clearly audible, disturbing time lag. As a result, you hear your voice or instrument later than the backing tracks played back on the computer and you are hardly able to perform in sync with the playback signal.

By using direct monitoring, input signals are not only sent to the computer but also directly to the outputs of your interface. This allows you to hear your input signal with virtually no delay (or latency) and always in sync with the playback material when recording or performing.

Tip: When recording the signal, mute the track you are recording to. Otherwise you would also hear your performance delayed from the recording track.

Listen to a sound example for US-4x4 and TM-80

Here's a sound sample (link to soundcloud.com) of music created with a Tascam US-4x4 audio interface and Tascam TM-80 microphones. The track includes acoustic guitar and vocals and has been produced by the Japanese composer Masaku Murata.

He used three TM-80s for the acoustic guitar: two were placed in front of the guitar, one pointing at the center and the other one pointing at the bridge. The third TM-80 was placed farther away for ambience.
Vocals were picked up by a fourth TM-80. For mixing, Murata used Sonar Platinum with its included plugins and ProChannel effects. No additional plugins were used for the mix.

Features at a glance

- High-quality Ultra-HDDA (High Definition Discrete Architecture) microphone pre-amps with ultra-low noise (EIN: –125 dBu)
- NE5532 operational amplifier for audio input and output circuits
- Recording at up to 96kHz/24-bit
- Support for Mac and Windows operating systems
- 4-in/4-out audio streaming from a PC connected via USB 2.0
- Four XLR/TRS (mic/line) analogue inputs with phantom power
- Input 1/2 selectable between line and instrument level
- Wide input gain range of 57dB for dynamic microphones
- Zero-latency monitoring (direct monitoring)
- Four TRS analogue outputs
- Two headphones outputs delivering 45 mW per channel
- Independent level controls for line and phones output
- MIDI input/output
- Source of audio output can be selected on settings panel
- Selectable input monitor mode (stereo/mono)
- AC adapter included
- USB Audio Compliance 2.0 for iOS connection
- Standalone operation for practice sessions

- Bundled with Cubase LE and Cubasis LE
- DAW compatibility (ProTools, Cubase, Live)
- Rugged aluminum body
- Angled industrial design for ease-of-use on a desktop

New features with firmware version 2.0

- Notification function keeps you updated with the latest information for your product
- Automatic update notification helps you to keep your software and firmware up to date (you can install new updates with the press of a button)
- The settings panel has been redesigned for easier control including the ability to save custom settings for future use

New features with Windows USB driver version 4.0

- With a powerful computer, ultra-short latency times can now be achieved by selecting a buffer size up from four samples
- Optimised display of the software window according to the screen resolution
- A new setting allows the computer to automatically register the interface as default device for audio input and output
- Further improved overall stability

Supported Operating Systems

Windows

- Windows 10 (October 2020, Version 20H2)
- Windows 10 (May 2020 Update 2004)
- Windows 10 (November 2019 Update 1909)
- Windows 8.1
- Windows 8
- Windows 7

Mac

- macOS Big Sur (11.0)
- macOS Catalina (10.15)
- macOS Mojave (10.14)
- macOS High Sierra (10.13)
- macOS Sierra (10.12)
- OS X El Capitan (10.11)
- OS X Yosemite (10.10)
- OS X Mavericks (10.9)
- OS X Mountain Lion (10.8)

iOS

- iOS 14 / iPadOS 14
- iOS 13 / iPadOS 13
- iOS 12
- iOS 11
- iOS 10
- iOS 9
- iOS 8
- iOS 7

Related products

US-4x4HR: High-Resolution USB Audio/MIDI Interface (4 in, 4 out)

SERIES 208i: USB Audio/MIDI Interface With DSP Mixer (20 in, 8 out)

US-16x08: USB Audio/MIDI Interface (16 in/8 out)

US-20x20: 20-Channel USB Audio Interface / Digital Mixer

Specifications

Audio resolution

Sampling frequencies	44.1, 48, 88.2, 96 kHz
Quantization bit depth	16/24-bit

Analogue inputs

Mic inputs (balanced)	XLR-3-31 equivalent (1: GND, 2: HOT, 3: COLD)
Input impedance	2.2 kΩ
Rated input level	−65 dBu (0.0004 Vrms) (gain knob at MAX)
Rated input level	−8 dBu (0.3090 Vrms) (gain knob at MIN)
Maximum input level	+8 dBu (1.9467 Vrms)
Gain range	57 dB
Instrument inputs (unbalanced, MIC/LINE INST switch set to INST)	6.3-mm standard TS stereo jacks (Tip: HOT, Sleeve: GND)
Input impedance	1 MΩ or more
Rated input level	−63 dBV (0.0007 Vrms) (gain knob at MAX)
Rated input level	−6 dBV (0.5015 Vrms) (gain knob at MIN)
Maximum input level	+10 dBV (3.162 Vrms)
Gain range	57 dB
Line inputs (balanced, MIC/LINE INST switch set to MIC/LINE)	6.3-mm standard TRS stereo jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Input impedance	10 kΩ
Rated input level	−53 dBu (0.0017 Vrms) (gain knob at MAX)
Rated input level	+4 dBu (1.228 Vrms) (gain knob at MIN)
Maximum input level	+20 dBu (7.75 Vrms)
Gain range	57 dB

Analogue outputs

Outputs (LINE OUT (BALANCED))	6.3-mm standard TRS stereo jacks (Tip: HOT, Ring: COLD, Sleeve: GND)
Output impedance	110 Ω
Rated output level	+4 dBu (1.273 Vrms)
Maximum output level	+20 dBu (7.75 Vrms)
Headphone output (PHONES)	6.3-mm standard stereo jack
Maximum output power	45 mW + 45 mW or higher (THD+N 1% or less, into 32 Ω load)

Control inputs/outputs

MIDI IN connector	5-pin DIN
Format	MIDI standard
MIDI OUT connector	5-pin DIN
Format	MIDI standard
USB	4-pin USB B-type
Transfer rate	USB 2.0 High Speed (480 MBit/s)

Audio performance

Mic preamp EIN (Equivalent Input Noise)	−127 dBu or less (150 Ω termination, gain knob at MAX)
Frequency response (IN1-IN4 to LINE OUT (BALANCED) or Headphone (HP) output)	20 Hz – 20 kHz +0 dB/−0.3 dB (−0.1 dB at 20 kHz) at fs = 44.1 kHz or 48 kHz, JEITA

Audio performance	20 Hz – 40 kHz +0 dB/–0.3 dB (–0.2 dB at 40 kHz) at fs = 88.2 kHz or 96 kHz, JEITA
S/N ratio	101 dB or higher (MIC/LINE input to LINE OUT, gain knob at MIN, JEITA)
Distortion	0.003 % or less (MIC/LINE input to LINE OUT, 1kHz sine wave, at nominal input level and maximum output level, JEITA)
Crosstalk	95 dB or more (MIC/LINE input to LINE OUT, 1 kHz, JEITA)

Computer system requirements

Windows	
Computer hardware requirements	Windows computer with a USB 2.0 port
CPU/processor speed	2 GHz or faster dual core processor (x86)
Memory	2 GB or more
CAUTION	Operation of this unit was confirmed using standard computers that meet the above requirements. This does not guarantee operation with all computers that meet the above requirements. Even computers that meet the same system requirements might have processing capabilities that differ according to their settings and other operating conditions
Mac	
Computer hardware requirements	Apple Mac computer with a USB 2.0 port
CPU/processor speed	2 GHz or faster dual core processor
Memory	2 GB or more
Supported audio drivers	ASIO 2.0, WDM (MME) Core Audio Core MIDI

Power supply and other specifications

Power supply	Dedicated AC adapter (Tascam PS-1220E), DC 12 V
Power consumption	5 W
External dimensions (w × h × d)	296 mm × 65 mm × 160 mm
Weight	1.6 kg
Operating temperature range	5–35 °C
Bundled DAW software	Cubase LE (for Mac and Windows), Cubasis LE

Design and specifications subject to change without notice.

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TEAC Europe GmbH

Bahnstrasse 12

65205 Wiesbaden

Germany

Tel: +49 611 7158-0
