

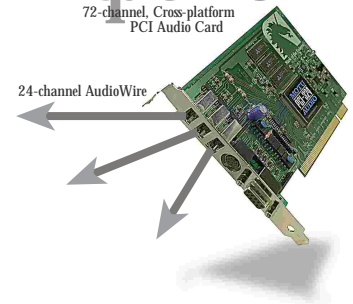


1224 audio interface

24-bit balanced analog i/o – with 116dB dynamic range

PCI-324

72-channel, Cross-platform
PCI Audio Card



Feature Highlights

- 24-bit A/D/A converters for 16-bit or 24-bit recording and playback at 44.1 or 48 kHz.
- 8 balanced +4 dB TRS analog inputs (24-bit).
- 8 balanced +4 dB TRS analog outputs (24-bit).
- 2 balanced +4 dB XLR main outputs (24-bit).
- Stereo AES/EBU digital I/O (24-bit).
- Outstanding audio quality – the 1224's latest generation 24-bit analog converters deliver an incredible 116 dB dynamic range (A-weighted) on inputs and main outputs.
- Expandable – connect up to three 1224 rack I/Os to a PCI-324 audio card for a total of 30 inputs and 36 outputs.
- 100% compatible with the 2408 and other MOTU audio interfaces – Add 1224 rack I/Os to a core 2408 system, or add 2408 rack I/Os to a core 1224 system. Mix and match I/Os (up to three at once) to meet your exact I/O needs for up to 58 inputs and 60 outputs.
- Flexible, reliable synchronization – Provides word clock, ADAT Sync and Digital Timepiece Control Track sync for Tascam.
- Word clock in and out – resolves to video, SMPTE timecode or any other external time base via a MOTU Digital Timepiece or other standard digital audio synchronizer.
- Available as a stand-alone system or as an expansion I/O for any MOTU core system.
- Compatible with all major Macintosh and Windows audio software applications.

Stunning audio quality at a breakthrough price

The 1224 is a computer-based digital audio hard disk recording system for MacOS and Windows. The 1224 combines the latest 24-bit converter technology with precision engineering. The results are exceptional dynamic range and sound quality that rivals today's most expensive systems. If nothing but the finest audio quality will do, look no further than the MOTU Audio 1224.

Core system or expansion I/O

The 1224 can be purchased as an expansion I/O for a 2408 core system, or as an independent core system which includes the PCI-324 card and Audiodesk.

Achieving maximum audio quality

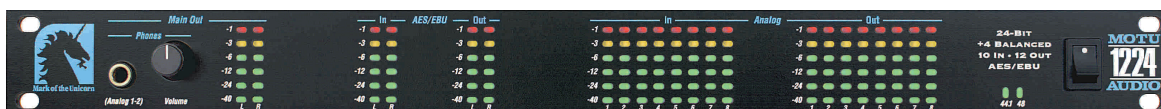
We all know that if you copy a videotape from one VCR to another, the second-generation tape suffers in quality. If you then copy the copy, the result is practically unviewable. The same principle applies to computer-based audio recording: convert the audio signal from analog to digital (or vice versa) as little as possible to minimize this sort of generation loss. Ideally, you want to convert the original analog signal into digital form once, when it is first recorded, and then never convert it again. Once you've recorded it into the computer, keep it digital all the way until you burn your audio CD.

The 1224 provides a state-of-the-art digital audio highway into your computer. The most critical point on that highway is the very beginning, when the analog audio signal is transformed into a digital stream of ones and zeros. In an instant, your audio is cast in digital form, and the audio signal will forever reflect the quality of that initial analog-to-digital conversion. Naturally, you're going to want the absolute best analog to digital conversion you can afford for that critical moment in the signal path. The 1224 delivers the latest 24-bit analog-to-digital converter technology with unprecedented affordability. Record audio into your computer with the 1224, and you can rest assured that you're audio has been captured at 44.1 or 48 kHz with the best possible 24-bit audio quality available today. And with AudioDesk, you can edit, mix, process and master your audio entirely in the digital domain, all the way up to your final CD burn.

Expansion

The 1224 uses the same PCI-324 card that the MOTU introduced with the 2408. You can connect up to three audio interfaces to a PCI-324 in any combination of 2408s and 1224s. For example, if you need ADAT optical digital connectivity, along with extremely high quality, balanced 24-bit analog I/O, a mix of 1224 and 2408 interfaces will meet your requirements perfectly.

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Up to three 1224s can be connected to a PCI-324 card for a total of 30 channels of 24-bit analog output, 24 channels of 24-bit analog input and six channels of AES/EBU input/output. Of course, you can substitute a 2408 for a 1224 for up to 24 channels of 24-bit ADAT optical or Tascam TDIF digital connectivity, along with 24-bit S/PDIF input/output.

An ideal companion for the 2408

The 1224 is a perfect match for a 2408 system, adding two critical I/O formats: balanced 24-bit A-to-D and D-to-A conversion for high-quality analog recording and 24-bit digital AES/EBU input/output. Use the 1224 for critical analog recording and use the 2408 for 24-bit digital interfacing with your outboard effects, digital mixer, ADATs or other MDMs.

Headphone output

The headphone jack of most digital audio workstations seems like an afterthought: disappointing power output, poor sound quality or even no headphone jack at all! Not the 1224: it features a high quality 24-bit stereo headphone output with front panel access and its own volume control. The audiophile-grade built in headphone amplifier provides more than enough juice to drive power hungry studio headphones or lengthy cable runs.

Metering

The 1224's front panel provides dedicated six-segment LED meters for every input and output, including stereo AES/EBU. You'll never be left wondering what's going on with signal flow in your 1224 system.

Front panel power switch

Useful in the unlikely event you wish to turn your 1224 off. But MOTU Audio interfaces are hot swappable. This means you can power off, plug-in, add and remove interfaces without turning off your computer or the 1224. In fact, if you already have a 2408, adding a 1224 is as easy as plugging in an Audiowire cable.

24-bit analog TRS input and output

The 8 analog inputs and 8 analog outputs are professional-grade TRS (balanced) connectors operating at +4 dB. The 24-bit converters on these connectors represent the latest generation of this technology.

Word clock input and output

The 1224 audio interface provides industry standard word clock input and output. The word clock input allows the 1224 to synchronize smoothly with today's digital audio studio. The word clock output delivers the 1224's ultra stable internal clock as a master clock to drive other digital devices in your studio, such as a digital mixer.

Audio Wire

Our proprietary Audio Wire format was first introduced with the 2408. It is a high-bandwidth digital audio format capable of carrying up to 24 channels of 48 kHz digital audio in and out of the computer at the same time. Audio Wire can readily handle the 10 high-quality inputs and 12 outputs of the 1224 audio interface.

AES/EBU

Professional grade stereo AES/EBU for digital transfers with up to 24-bit resolution. The 1224 can also synchronize to external word clock sources via the AES/EBU digital input.

Main Outs

The two XLR main analog outputs of the 1224 offer a stunning dynamic range of 116 dB.

Power supply

Like all MOTU hardware products, the 1224 comes with an internal power supply and standard detachable IEC power cable. No wall warts or line lumps.

Specifications

- 8 24-bit balanced TRS analog outs
- 8 24-bit balanced TRS analog ins
- 2 24-bit balanced XLR analog outs
- AES/EBU digital I/O (24-bit)
- 16, 20 and 24-bit recording at 44.1 or 48 kHz
- Word clock in and out
- Core system includes cross-platform PCI-324 card

Dynamic range (A-weighted)

- Inputs – 116 dB
- Main outputs – 116 dB

THD+N @ 1 kHz

- Inputs – 0.0010%
- Main outputs – 0.0015%

