

## X-48 48-Track Hybrid Hard Disk Workstation

### Multitrack Recording Features:

- ▶ 48-track digital recording at up to 96kHz/24-bit
- ▶ 24-track recording at 192kHz/24-bit
- ▶ 32-bit floating point audio file recording and playback with no loss of track count
- ▶ Advanced integrated synchronization and machine control, including HDTV tri-level sync for hi-definition video (HDTV)
- ▶ Time-stamped Broadcast WAVE file format
- ▶ Front-panel transport, track arming, project management and metering functions
- ▶ Built-in 80GB hard drive
- ▶ Built-in DVD+RW for backup, transfer and restore
- ▶  $\pm 12.5\%$  varispeed
- ▶ Snap-to-grid editing functions

### Workstation/Mixing Features:

- ▶ Turn-key operation: no software conflicts to troubleshoot
- ▶ Graphic user interface for editing, mixing, plug-ins and meters
- ▶ 48-channel mixing at 96kHz/24 channels at 192kHz
- ▶ 32-bit floating point mixer resolution
- ▶ 6 stereo returns (60 inputs at mixdown)
- ▶ 24 busses, 6 aux sends, stereo master buss
- ▶ Full dynamic automation
- ▶ Dynamics, 4-band parametric EQ and 4 VST plug-in inserts per channel

The new **TASCAM X-48** 48-Track Hybrid Hard Disk Workstation is the first audio workstation that records multichannel high definition audio – up to 48 tracks of 96kHz or 24 tracks of 192kHz audio at up to 32-bit floating point resolution. As the first Hybrid Hard Disk workstation, it offers the best of both worlds – the stability and ease-of-use of stand-alone hard disk recorders with the GUI, editing

expansion. GigaBit Ethernet is also included for drive sharing and FTP file transfer. The X-48 includes comprehensive synchronization features, including tri-level sync, required for working with 23.976 frame hi-definition video media.

But the X-48 is more than just a 48-track recorder. With its 60-channel built-in mixing, including 4-band EQ, dynamics and four VST plug-in slots



*Shown with keyboard, mouse and monitor, not included*

features and plug-in compatibility of computer-based workstations. It's a true plug-and-play device, ready for instant use without hardware and software installation and troubleshooting

Tracks recorded on the X-48 are captured as time-stamped Broadcast WAVE files, and projects can be exchanged with computer DAWs like Pro Tools® using OMF, AAF, or OpenTL standards. It includes an internal 80GB hard drive and DVD+RW drive, and supports FireWire and USB hard drives for

per channel, it's a full-featured audio workstation. Use its VGA, USB and PS/2 connections to access the built-in graphic user interface for mixing, metering and editing. Whether you need a 48-track stand-alone recorder or a fully-integrated hybrid workstation, the X-48 is the ultimate solution for music, post-production and live recording applications.

## Music Tracking

Working with the X-48 gives you the feel of recording to a purpose-built recorder, instead of an adapted computer workstation, for solid, reliable performance. With all of its synchronization and control options – like 9-pin control, SMPTE sync and optional remote – it easily integrates with the rest of the equipment in your studio.

The X-48 handles 48 tracks of simultaneous 96kHz recording – or 24 tracks at 192kHz – and it keeps up with every punch-in, no matter how fast. Its great-sounding analog converters and inexpensive DVD backup media make it the perfect replacement for aging 24-track recorders.

Once you've captured the performance, you can edit together the best take using the built-in editing interface. Just plug in a mouse, keyboard and VGA monitor to start cutting together a take. If you prefer working in another format, export your session as OMF, AAF or Open TL to a workstation like Pro Tools®. Then import it back when you're finished. Audio tracks on the X-48 are recorded as standard time-stamped Broadcast WAVE files that



can be imported into any workstation software, and you can even work in “tape mode,” which creates one audio file per track to make file management between systems easy.

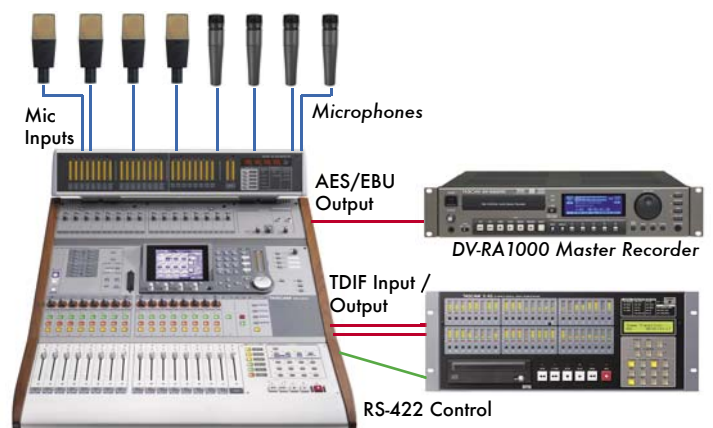
## Live Recording

The portability of the X-48 makes it a natural choice for live recording. Its dedicated design gives you extra reliability for those occasions when there aren't any second takes.

The optional IF-AN24X analog input card offers 24 high-quality balanced analog inputs with up to 192kHz recording, and you can use two cards for 48-track/96kHz recording. AES/EBU, ADAT and TDIF digital I/O cards are also available, and both the analog and digital I/O can be used simultaneously for monitoring.

The rear panel contains a FireWire connection for connecting more hard drives for extra storage. Since the X-48 records standard WAVE files, these recordings can immediately be brought into your favorite DAW for editing and mixing, or you can complete the project “inside the box” with the

mixing built into the X-48. It also offers 60-channel automated mixing with powerful processing features, allowing you to monitor the show without an external mixer, or to output a stereo mix for a 2-track CD or DVD of the live mix.

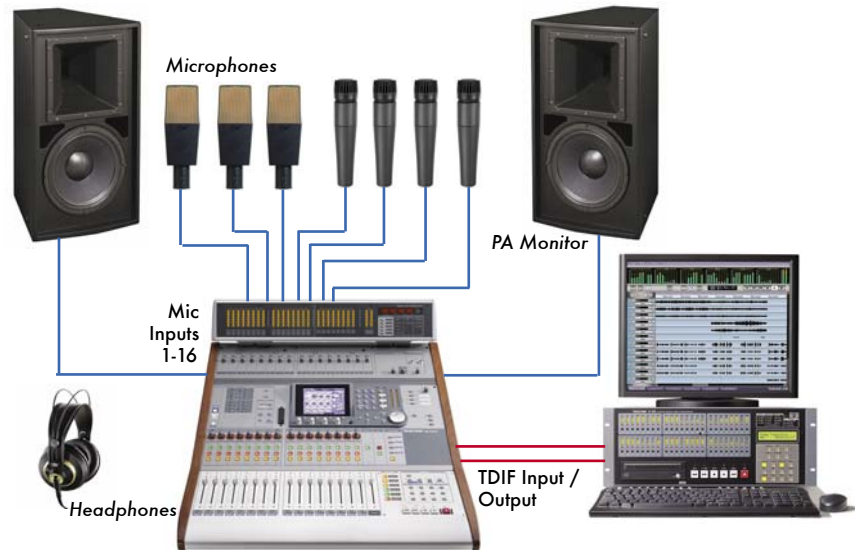


## Presentation Playback

The X-48 excels as a playback machine for theater, live performance and church applications. Its Theatre Mode function allows you to play one audio selection at a time, automatically cueing up the next section for instant playback. Designed for theaters playing back sound effects and music selections, Theatre Mode also offers hundreds of creative possibilities for multimedia producers. Whether the project originates on the X-48 or is imported from a DAW like Pro Tools, cueing the next scene is simple and reliable.

Synchronization features like SMPTE, MIDI and RS-422 enable the X-48 to integrate with multimedia installations. Its 48 tracks of playback easily allow surround mixes to be reproduced with holophonic clarity. Integrated editing,

mixing and project management allow the engineer to control an entire production from his or her mousing finger.



## Project Studio Recording

From the Portastudio to high-end professional solutions, TASCAM is well-known for innovative, all-in-one production workstations integrating recording and mixing in one box. The X-48 allows a small studio to combine 48-track, 96kHz/24-bit recording with powerful automated mixing for results never before possible at this price point.

The editing screen of the X-48 uses a familiar DAW interface, with snap-to-grid editing, crossfade and processing features professionals demand. The internal mixer is a 60-input digital system with 32-bit floating point resolution. Each channel provides 4-band parametric EQ, dynamics processing and four VST plug-in insert slots.

For a professional mix experience, plug in the US-2400 24-channel control surface. It provides tactile control of the X-48 system, including mixing with moving faders, transport control, EQ and aux control of the X-48's built-in mixer. When you're

finished, bounce your mix to disk and back up the project with the built-in DVD+RW drive.





Shown with optional IF-AN24X expansion cards, not included

## X-48 Connections

- ▶ (48) TDIF Digital Inputs and Outputs
- ▶ Stereo S/PDIF On and Out
- ▶ (2) 24-channel option slots support analog, ADAT or AES/EBU expansion cards
- ▶ BNC Video In and Thru, auto-terminating, HDTV tri-level sync
- ▶ BNC Word Clock In, Out and Thru, auto-terminating
- ▶ MIDI In and Out
- ▶ TRS balanced 1/4" SMPTE In and Out
- ▶ 1/4" Footswitch Input
- ▶ RS-422 (Sony 9-pin) Remote Input, also supports the RC-2424 remote
- ▶ PS/2 Mouse and Keyboard Inputs
- ▶ VGA Output
- ▶ Gigabit Ethernet for FTP and drive sharing
- ▶ (4) USB 2.0 ports for external hard drive support
- ▶ (2) FireWire ports for external hard drive expansion

## Optional Accessories

### US-2400 24-fader Universal Control Surface

The X-48 includes native support of the US-2400, allowing the two to be used together as a 48-track production workstation with control of recording and mixing parameters.



**IF-AN24X** 24-channel balanced analog I/O card

**IF-AE24** 24-channel AES/EBU I/O card

**IF-AD24** 24-channel ADAT optical I/O card

**RC-2424** Remote control



X-48 Mixer Display