

PIX 270i

Network-Connected Video Deck with MADl and Dante™ Audio



Scalable, multi-cam, multi-track video recorder.

The PIX 270i is a cost-effective, file-based video deck with an audio-only mode, designed for fast-paced studio, live event, and mobile productions. Its feature-rich expandability makes it an ideal AV solution for large-scale, multi-cam workflows or double-system sound applications. Whether used for capturing multiple camera ISO feeds at a sports stadium or recording numerous audio tracks at a live concert, its half-rack, 2U size makes it the perfect alternative to bulkier, complex video servers.

Compact, Scalable System

With its network connectivity and built-in multi-unit synchronization, PIX 270i recorders can be interconnected over Ethernet for simultaneous, frame-accurate recording and playback. Any number of units can be grouped and controlled as a single system from either the hardware or from the built-in web based control panel.



Trusted Reliability

With live events, there is no second chance to capture the moment. The PIX 270i records, simultaneously or sequentially, on up to four removable solid state drives for instant deliverables and backups. Files from PIX 270i are ready for input directly into popular editing programs including Avid, Final Cut Pro, and Adobe Premiere Pro. With PowerSafe and FileSafe technology, vital recordings are further protected in the event of inadvertent power loss or drive removal.

Superior Accuracy

Ensure video and audio synchronization with the PIX 270i's input delay functionality and comprehensive Ambient timecode generator/reader. Also, with the deck's built-in video monitor (a 5-inch IPS color display), you can be confident the signal arriving at the device is 100% accurate.



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KEY FEATURES

Built-In Redundancy

- Simultaneous multi-drive recording for redundancy and backup; up to four solid state drives
- PowerSafe™ provides 10-second power reserve for safe shutdown in the event of complete power loss
- FileSafe™ automatically detects and recovers files that have not been finalized
- Redundant 4-pin XLR power connections

Recording Capabilities

- Edit-ready Apple® ProRes or Avid® NxHD; up to Apple ProRes 4444 at 330 Mb/s and Avid DNxHD codecs up to 220 Mb/s. Proxy rates of 36 Mb/s also available
- 12-bit 4:4:4, 3G-SDI I/O
- Access and transfer files over Ethernet
- Networkable, for group control of multiple decks; external control via RS-422 or via embedded web control panel
- Frame synchronized recording & playback

Audio Capabilities

- 64 channels of MADl and Dante audio I/O for large-scale audio systems
- Eight channels of both AES digital and analog audio
- 16 channels of embossed SDI audio



PIX 270i Back Panel

PIX 270i

Network-Connected Video Deck with MADI and Dante Audio

SPECIFICATIONS

Video

SDI Input & Output

3G SDI 4:4:4, HD-SDI, SDI 4:2:2

HDMI I/O

Version 1.4 A input, Version 1.3 A output, HDCP enabled on input

Video Codecs and Files

Apple ProRes Proxy to 4444 12-bit, 330 Mb/s
Apple ProRes 36, 100, 145, 220 Mb/s, 8- and 10-bit
Avid DNxHD 36, 100, 145, 220 Mb/s, 8- and 10-bit
Quicktime wrapper (.MOV), exFAT File System
WAV mono or WAV poly, contains Broadcast WAV metadata

Audio

Audio Recording

64 channels record/playback, simultaneous with video
MADI Dante, Analog, HDMI/SDI, AES3, selectable per channel

Analog Audio

8 balanced, line-level outputs on DB-25; ch1,2 also on XLR
Frequency Response: 10 Hz-20 kHz, +/- 0.5 dB re 1 kHz;
THD + Noise: 0.004% max (1 kHz, 22 Hz-22 kHz)
Line output clipping level: +18 dBu
Output attenuation 0-20 dB, 1 dB increments
Front-panel headphone port, 1/4-inch with gain control

Timecode and Sync

Timecode

Modes Supported: Freerun, Record run, External, 24 hr, external TC (SDI and HDMI), and others
Frame Rates: 23.976, 24, 25, 29.97DF, 29.97ND, 30DF, 30ND
Accuracy: +/- 0.2ppm, holds accurate time code for 2 hours after power is removed
Inputs / Outputs: BNC(LTC input and output), SDI, or HDMI (Sony protocol)

Storage, Control, Power and Dimensions

File Storage

PIX-CADDY 2 mounted drives: two, front-mounted Sound Devices approved 2.5-inch drives
eSATAp-connected drives: two, rear panel ports for Sound Devices approved drives, supplies 5V @ 2A
Ethernet file transfer via SMB/CIFS volume

Control

RS-422 Machine control
Ethernet Web-based control, PIXNet, of settings and transport
GPIO on 3 pins, Phoenix connector

Keyboard

Front-panel USB host. Keyboards without hubs acceptable.

Up/Down/Cross Conversion

480i, 576i, 720p, 1080i, 1080p to any 480i, 576i, 720p, 1080i, 1080p, anamorphic conversion

Frame-Rate Conversion

24, 25, 30, 50, 60 to 24, 25, 30, 50,60, 23.976, 29.97, 59.94 to 23.976, 29.97, 59.94, automatic 3:2 pull-down removal in 23.976 and 24 frame modes, other pull-down cadences include 2:2:2:4, 2:3:3:2, 3:2:3:2:2, and 2:2

Max Video Input Resolutions/Rates

Max 1080p30
Max 1080i60

Digital Audio

Sampling rate/bit depth: up to 96 kHz, 24-bit
Accepts 32k, 44.1k, 48k, 96k, 192k sample rates with SRC at input.
AES/EBU: 8 channels in and out via DB-25, 110 ohm, 2 V p-p
HDMI: 8 channels embedded HDMI input, 8 channels embedded HDMI output
SDI: 16 channels embedded SDI input and output, 48k sample rate
Dante - 64 channels, 48 kHz input and output
MADI (AES10) optical or coaxial - 64 channels, 48 kHz input and output (32 channels at 96 kHz)

Sync Output

Analog bi-, tri-level sync/genlock
Wordclock (square wave, up to 96 kHz sampling rate, 3.3 vp-p, 75 ohm)

Sync Input

Analog bi-, tri-level sync/genlock
Wordclock (square wave, up to 96 kHz sampling rate, 3.3 vp-p, 75 ohm)

LCD Display

5-inch LCD; 800 x 480 resolution, IPS; flips down for front-mount drive access

Power

4-pin XLR (pin1 = ground, pin4 = +), dual DC input connectors, 10-27 VDC, 30 watts
PowerSafe circuitry with 10 second power reserve when external power removed

Physical

Size: 3.3 in x 8.6 in x 10.3 in (HxWxD)
(8.4 cm x 21.8 cm x 26.2 cm)
Weight: 7.5 lbs (3.4 kg)
Operating Temperature: -10C to +40C

ACCESSORIES



PIX-CADDY 2

Caddy required to insert 2.5" SSDs into the front-panel drive bays of PIX video recorders. Includes FireWire 800, USB 3.0, and eSATAp interfaces. PIX-SSD6 has 240 GB capacity; pre-formatted exFAT.



PIX-DOCK

Thunderbolt™ adapter holds a PIX-CADDY, providing high-speed transfer to and from a Thunderbolt-enabled computer.



PIX-DRIVE BAY

Half-rack bay holds two PIX-CADDY 2 with SSDs, giving the PIX 270i access to four drives. Connects to the PIX 270i with two attached 21" eSATAp cables. The PIX-DRIVE BAY requires a PIX-RACK kit for mounting. The PIX-RACK is a rack-mount kit for all PIX video decks. It accommodates two rack-mount devices. Supports single and dual-unit mounting. 2 RU height.

SOUND DEVICES

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Features, nomenclature, and specifications subject to change.

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