PIX 250i
Network-Connected Video Deck

VIDEO DEVICES · PIX 250i

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

The PIX 250i is a cost-effective, file-based video deck designed for fast-paced studio, live event, and mobile productions. Its feature-rich expandability makes it an ideal 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 grouping, PIX 250i recorders can be interconnected over Ethernet for simultaneous 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 250i records, simultaneously or sequentially, on up to two removable solid state drives for instant deliverables and backups. Files from PIX 250i 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 high-quality video and audio grouping with the PIX 250i's audio 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.

KEY FEATURES

Built-In Redundancy
- Simultaneous multi-drive recording for redundancy and backup; up to two 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
- Two channels of analog audio
- Eight channels of AES digital audio
- 16 channels of embedded SDI; eight channels of embedded HDMI audio

PIX 250i Back Panel

SPECIFICATIONS

Video

SDI Input & Output
3G SDI 4:4:4, HD-SDI, SDI 4:2:2 conforming to SMPTE 12M-1, 12M-2, 125M, 259M, 272M, 291M, 292, 296M, 299, 352M, 424, 425

HDMI I/O
Version 1.4a input, Version 1.3a output, HDCP enabled on input

Video Codecs and Files
Apple ProRes 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- & 10-bit
QuickTime wrapper (.MOV), exFAT File System

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

Audio

Audio Recording
16 channels record/playback, simultaneous with video
Analog, HDMI/SDI, and AES3, selectable per channel

Analog Audio
Two balanced, line-level inputs and outputs 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)
Input and output topology: fully electronically balanced, line-level, RF, ESD, short, and overload protected; pin-2 hot, pin-3 cold
Line output clipping level: +18dBu
Output attenuation 0-20 dB, 1 dB increments
Front-panel headphone port, 1/4" with gain control

Digital Audio
Sampling rate/bit depth: 48 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
Accepts 32k, 44.1k, 48k, 96k, 192k sample rates

Timecode and Sync

Timecode
Modes Supported: Freerun, Record run, External, 24 hr
Frame Rates: 23.976, 24, 25, 29.97DF, 29.97, 30DF, 30
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)

Sync Output
Analog bi-, tri-level sync/genlock
Wordclock (square wave, 48 kHz sampling rate, 3.3 vp-p, 75 ohm)

Sync Input
Analog bi-, tri-level sync/genlock
Wordclock (square wave, 48 kHz sampling rate, 3.3 vp-p, 75 ohm)

Storage, Control, Power and Dimensions

File Storage
PIX-CADDY 2 mounted drives: two, front-mounted Sound Devices approved 2.5-inch drives
Ethernet file transfer via SMB/CIFS volume

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

Keyboard
Front-panel USB host. Keyboards without hubs acceptable.

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

Power
4-pin XLR (pin1 = ground, pin4 = +), 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-RACK
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.

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