

# 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.

POWER  
SAFE



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## 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

# PIX 250i

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### 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

#### 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

#### 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)

#### 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.

##### 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: 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

##### 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)

##### 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.

SOUND DEVICES

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Features, nomenclature, and specifications subject to change.

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