

# PIX 260i

PRODUCTION VIDEO RECORDER



VIDEO · AUDIO · NETWORK CONTROL

The rack-mounted PIX 260i is a file-based video recorder/player that seamlessly replaces tape-based video decks in production and post-production environments. It offers Apple ProRes, Avid DNxHD, and WAV file recording to four attached drives, simultaneously. Its extensive audio capabilities include 32 tracks of audio over analog, AES digital, embedded audio over SDI and HDMI, or Ethernet-based Dante. Powerful network control capabilities include browser-based Ethernet machine control and drag-and-drop network file transfer.

## File-Based Recording

The PIX 260i records Quicktime files in either Apple ProRes or Avid DNxHD video formats. Files recorded in these intra-frame codecs are ready-for-editing directly from the recorder. For color-critical applications recording to Apple ProRes 4444 provides uncompressed alpha-channel transparency for accurate chroma keying and grading performance.

ProRes

DNxHD

## Extensive Video I/O

The video input on the PIX 260i has extensive compatibility with a wide range of cameras. Its BNC input accepts 12-bit 3G SDI (4:4:4 RGB or YCbCr), HD-SDI, or SDI. The HDMI input accepts high-definition and standard-definition video.

With a 3G-SDI 4:4:4 input source, recording ProRes 4444 files offers recordings that are perceptually indistinguishable from the original source material.

3G SDI HDMI™



### SCALER & FRAME RATE CONVERTER

The PIX 260i features a hardware scaler and frame rate converter. Up, down, cross-conversion, and pulldown removal give users the ability to record files in a customer-requested rate, even rates not supported by the camera. The PIX 260i also supports aspect ratio conversion, HD to SD and SD to HD.

**Half-rack, 2U chassis dimension allows the PIX 260i to easily integrate into any production environment.**



## Playback Control

The PIX 260i offers a wide range of playback features. Playback control includes off-speed, forward, backward, freeze-frame, looping, and custom playlists. File markers can be set either while recording or playing back with the press of a button. Loop playback offers continuously looped playback of whole files or between files markers. Playlists help organize multiple files for consecutive or loop playback.

## Time Code Generator with Genlock

The internal, high-accuracy Ambient time code generator makes the PIX 260i at home on complex, multi-camera and sync-sound productions. All common time code frame rates and modes are supported. Embedded time code over SDI and HDMI is also supported.



## PIXNET Network Control

The PIX 260i can be controlled from browser-capable computers and portable devices. When connected to a data network, transport controls and setup menu controls are available on PIXNET. PIXNET offers control of one or many PIX 260i recorders. Multiple units can be grouped for simultaneous control.



## Simultaneous Recording to Four Drives

The PIX 260i records and plays back either Quicktime video or audio-only WAV files to removable 2.5-inch solid-state drives (drives and PIX-CADDY are optional accessories). Recording to multiple drives offers immediate file backup, eliminating time-consuming post-record copying.

## Drag and Drop Transfer

Drives connected to a PIX 260i are accessible on Ethernet-based networks as read-only SMB shares, opening up endless possibilities for file sharing. Files can be copied from any PIX 260i located on a network, from access across a room or across the globe.





## Rack-Mountable

PIX 260i's convenient 1/2-rack, 2U chassis dimension allows it to be easily integrated into any existing environment. It is powered by 10-27 VDC through its four-pin XLR connector.

The PIX-RACK is sold separately and includes one full 19" 2U rack (holds two PIX 260is), one blank panel and screws.

## Remote Control

Record, play, stop, fast-forward and rewind control is available over both RS-422, 10-pin GPIO, and standard USB keyboards. USB keyboards also offer menu navigation and text entry.



## IPS Preview Monitor

With its 5-inch, IPS display, the PIX 260i becomes an accurate monitor video signal evaluation. The display's excellent color accuracy and off-axis visibility assist in framing, exposure evaluation, and focus evaluation, both during recording and playback.

Defeatable detail overlays on the picture includes audio metering, time code, file type, record status, and frame rate information. The display also doubles as a fast, simple menu interface. Time Code and record status display can be over-layed on the SDI and HDMI outputs.



## 32-Track Audio

The PIX 260i has extensive audio I/O, plus an audio-only record and playback mode. Up to 32-tracks can be recorded and routed from the following sources:

- Eight line-level, analog
- Eight AES digital
- 16 channels of embedded SDI
- 8 channels of embedded HDMI
- 32 tracks of audio-over-Ethernet using Audinate's Dante



### EXPOSURE ASSIST



Multi Level Zebras



False Color

### FOCUS ASSIST



Edge Enhancement



Peaking

# PIX 260i ACCESSORIES

## PIX-DOCK

Thunderbolt adapter for the PIX-CADDY. PIX-DOCK allows high speed transfer for Thunderbolt-enabled computers.



## PIX-CADDY

2.5-inch SSD caddy for PIX Video Recorders. Firewire 800, USB 3.0 and eSATAp connections for data transfer.

## PIX-CADDY-CF

CompactFlash card holder for PIX Video Recorders. Firewire 800, USB 3.0 and eSATAp connections for data transfer.

## PIX-SSD

2.5-inch SSD approved for use with PIX Video Recorders.

## PIX-SHIM

Assorted shims for use with solid state drives.

## PIX-RACK

Rack-mount kit for the PIX 260i.

## PIX-DRIVEBAY

Rack panel accepting two PIX-CADDYs.

## XL-WP4

Universal, 66 W in-line AC-to-DC power supply XLR 4-pin DC connector; with detachable IEC power cord. 100–240, 50/60 Hz. Included accessory with the PIX 260i.

# PIX 260i SPECIFICATIONS

## 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 Input Resolutions / Rates

1080p23.976/24/25/29.97/30, 1080i50/59.94/60, 1080PsF23.976/24/25/29.97/30, 720p23.976/24/25/29.97/30/50/59.94/60, 576i50 (PAL), 480i59.94 (NTSC)

## Video Codecs and Files

- Apple ProRes 4444 12-bit
- 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), UDF File System
- WAV poly, contains Broadcast WAV metadata

## 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

## Audio Recording

- 32 channels record/playback, simultaneous with video
- Simultaneous Dante, Analog, HDMI or SDI, AES3, selectable per channel

## LCD Display

5-inch LCD; 800 x 480 resolution, IPS, flip-down for drive access

## Analog Audio

- 8 balanced, line-level inputs on DB-25, ch1,2 also on XLR
- 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)
- 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, 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
- SDI: 16 channels embedded SDI input and output, 48k sample rate
- Dante - 32 channels, 48 kHz input and output

## File Storage

- XL-CADDY 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

## Time Code

- Modes Supported: Freerun, Record run, External
- 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)

## 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
- Word WWclock (square wave, 48 kHz sampling rate, 3.3 vp-p, 75 ohm)

## 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.

## Power

4-pin XLR (pin1 = ground, pin4 = +), 10-27 VDC, 30 watts

## Physical

**Size (H x W x D):** 3.3" x 8.6" x 10.3" (8.4 cm x 21.8 cm x 26.2 cm)

**Weight:** 7.5 lbs

**Operating Temperature:** -10C to +40C

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