

PIX VIDEO



SOUND  **DEVICES**

PIX 220

Superb Video and Audio Performance

PIX 220

For cameras with HDMI I/O only, the PIX 220 is the perfect master recorder. It adds Apple ProRes and Avid DNxHD file recording, the same file formats as the PIX 240. It also includes the same hardware scalers for resolution flexibility and the same 5-inch display. The PIX 220 is perfect for small-format high-definition cameras where time code is not required. Its high-quality audio inputs accept both microphone and line level signals.

Key Features

- Apple ProRes or Avid DNxHD Quicktime file formats, multiple data rates
- 10-bit input video resolution
- Hardware scalers for resolution flexibility
- 5-inch, 800x480 pixel display
- Ultra low-noise (-128 dBu) mic preamps with phantom, limiters, line input (based on 7-Series recorders)
- CompactFlash or removable 2.5-inch solid-state hard drives file storage with media spanning, UDF format for Mac OS and Windows compatibility



Left Panel

- Drive bay for PIX-CADDY
- eSATAp connection to interface with PIX-CADDY
- 3.5mm headphone output



Bottom Panel

- Audio inputs on balanced XLR-3
- Audio output on balanced XLR-5
- Hirose 4-pin DC power input connection



Right Panel

- HDMI input and output connectors
- LANC connector for remote roll
- Control Knob for easy menu navigation

PIX 240

Simplifying Production

Sound Devices PIX 240 adds Apple ProRes and Avid DNxHD file recording to any HDMI or HD-SDI-equipped high-definition video camera. The portable PIX 240 record Quicktime files to CompactFlash cards or removable 2.5-inch solid-state hard drives.

Apple ProRes and Avid DNxHD video formats have emerged as industry standards. These I-frame codecs offer the best balance of picture quality, processing efficiency, and data storage requirements. They are ideal for editing, on-the-fly color grading, and video processing. Because PIX recorders use Apple ProRes and Avid DNxHD, files recorded in the field are ready for the most popular editorial workflows.

No compromise picture, no compromise sound. With deep expertise in production audio and hard drive-based audio recorders, Sound Devices built the PIX recorders with the highest audio performance. The audio circuitry on both PIX recorders are based on Sound Devices award-winning 7-Series Digital Audio Recorders. The low-noise (-128 dBu equivalent input noise), high-bandwidth inputs are mic/line switchable and include limiters, high-pass filters, and 48V phantom power.

The PIX 240 includes a generous 5-inch, 800x480 pixel LCD display. The display is essential in the field and provides immediate confirmation of recording, playback, audio metering, and Setup Menu selections. A side panel control knob and four front-panel buttons give quick access to setups. Large, illuminated, tactile record controls give instant confirmation of recording status.



APPROXIMATE ACTUAL SIZE



Right Panel

- HDMI input and output connectors
- Time code input and output on LEMO
- Control knob for easy menu navigation



Left Panel

- Drive bay for 2.5-inch PIX-CADDY
- eSATAp connection for direct drive connection
- Headphone output

Front Panel

- 5-inch, 800x480 pixel display
- Large, illuminated, tactile record control buttons
- AUDIO, LCD, MENU, and FILE buttons for direct menu access



Bottom Panel

- Audio inputs on balanced XLR-3, analog or digital (AES-3)
- Audio output on balanced XLR-5
- HD-SDI input and output on BNC
- Time code output on BNC
- Genlock or word clock sync output on BNC
- DC power input on 4-pin Hirose



Top Panel

- CompactFlash card slot
(shown with protective rubber cover open)

Key Features

- Apple ProRes and Avid DNxHD Quicktime file formats, multiple data rates
- 10-bit input video resolution
- Audio embedding with ultra low-noise (-128 dBu) mic preamps with phantom, limiters, line input (based on 7-Series recorders)
- CompactFlash or removable 2.5-inch solid-state hard drives file storage with media spanning, UDF format for Mac OS and Windows compatibility
- High-accuracy built-in time code generator, with genlock or word clock output, Ambient Clockit-compatible
- 5-inch, 800x480 pixel display
- Large, illuminated, tactile buttons for fast and simple menu control
- Simultaneous HDMI and HD-SDI output
- Up/Down/Cross Conversion of 480i, 525i, 720p, 1080i, 1080p
- 336-core, 32-bit massively parallel processor with 1.2 TeraOps for efficient video encoding
- 10-18 VDC or removable Sony L-series powering
- Molded, metalized carbon fiber chassis

HD-SDI and HDMI

With both HD-SDI and HDMI inputs, the PIX 240 can connect to a wide range of cameras. Its simultaneous HD-SDI and HDMI outputs provide instant format conversion.

Time Code

The PIX 240 has a tunable, high-accuracy time code generator/reader by Ambient complete with Genlock output. Time code source can be derived from an HD-SDI stream, from an external jammed source, or from the built-in generator.

Additional Features

Additional features include up to four digital audio inputs on AES-3, and an external eSATAp connection for direct, powered connection to large SATA storage volumes.

PIX FLEXIBILITY

PIX-CADDY

The optional PIX-CADDY (shown at right) accommodates 2.5-inch SSD drives for direct recording to SSD. It can be hot-swapped for convenient media exchange in the field. The Caddy provides triple-interface connectivity for SSD file access: FireWire 800 (400 compatible), eSATAp, and USB 3.0 (USB 2.0 backward-compatible).

PIX-HOOD

The available PIX-HOOD (shown at right) improves screen visibility in full-sun shooting. The Hood snaps in place with four magnetic mounts and has no effect on button access.

PIX-ARM

The PIX-ARM is a simple-to-use mount with 1/4"-20 (top) and 1/4"-20 (bottom) threads. Use the Arm to mount PIX recorders to cameras or accessories in nearly limitless ways.

Additional Accessories

XL-AB

Anton Bauer D-Tap to 4-pin Hirose for PIX powering.

XL-H4

4-pin XLR to 4-pin Hirose for PIX powering.

XL-Charge

Two-up stand-alone charger for Sony L-series batteries.

XL-ESATA

eSATA-to-ESATA cable for PIX-CADDY to computers.



Powering

PIX recorders are powered by removable Sony L-series batteries (up to two) or external DC (10-18V) via a 4-pin Hirose. When the PIX recorder is powered down, external DC will charge attached batteries.

Mechanical Construction

PIX recorders use a molded, metalized carbon fiber chassis for light weight and field-proven durability.

User Interface

Operation and Setup Menu access is fast and simple, even with gloved hands. PIX recorders use tactile buttons, the Control Knob, and the generous 5-inch display.

Video Input / Output	PIX 220	PIX 240
HDMI Input (480i, 525i, 720p, 1080i, 1080p), v1.4a	✓	✓
HD-SDI Input (480i, 525i, 720p, 1080i, 1080p)	-	✓
HDMI Output, v1.3	✓	✓
HD-SDI Output	-	✓
Up/Down/Cross Conversion of 480i, 525i, 720p, 1080i, 1080p	✓	✓
3:2 Pull Down Removal to Record 24p from 60i Signal	✓	✓
File Formats		
Apple ProRes 422 (Proxy/LT/422/422HQ)	✓	✓
Avid DNxHD 36, 145, 220 Mb/s, 8- and 10-bit	✓	✓
.mov Quicktime File Wrapper	✓	✓
File Storage		
CompactFlash, High-Speed (UDMA required)	✓	✓
Accepts Removable PIX-CADDY (not included) for SSD Recording	✓	✓
UDF format, Mac OS and Windows Compatible (for extended file length recording)	✓	✓
eSATAp Connection for Direct Connection to External SSD Storage	-	✓
Time Code / Sync		
Internal Ambient Clockit Time Code Generator with Genlock Output, Internal Battery to Hold Time Code	-	✓
LTC Input, Output on LEMO, Ambient Clockit Compatible	-	✓
Time Code over HD-SDI	-	✓
Tri-Level Sync Out, Genlock	-	✓
Word Clock Out	-	✓
Audio Input / Output		
Premium Microphone Preamps, on Balanced XLR, Mic/Line Selectable with 48V Phantom, Limiters, High Pass	✓	✓
-128 dBu Input Noise, 115 dB Dynamic Range A/D	✓	✓
AES3 Digital Inputs 2 x 2 channels	-	✓
Two-Channel, Line Level Balanced Output on 5-pin XLR	✓	✓
Embedded Audio on HDMI, 2 channels	✓	✓
Embedded Audio on HD-SDI, 8 channels	-	✓
High Output, Low-Noise Headphone Amp	✓	✓
Mechanical and Powering		
10-18 VDC on Hirose 4-pin or Sony L-series batteries (2)	✓	✓
Large, Illuminated Record Control Buttons	✓	✓
Metalized, Molded Carbon Fiber Chassis with External Whisper-Quiet Cooling Fan	✓	✓
Display		
5" 800 x 480 Pixel Panel, matte finish	✓	✓



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