

# PIX 240i

RECORD. MONITOR. TRANSFER.



**SOUND**  **DEVICES**

AUDIO & VIDEO PRODUCTION PRODUCTS

The portable PIX 240i is an essential companion for any production environment. It brings edit-ready Apple ProRes, including ProRes 4444, or Avid DNxHD recording to 3G-SDI, HD-SDI, SDI, or HDMI-equipped video sources.

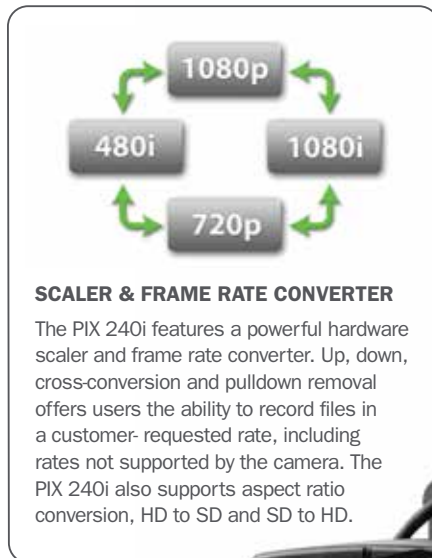
## Extensive Video I/O

The video input on the PIX 240i 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.

## File-Based Recording

The PIX 240i 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.



Optional  
PIX-HOOD  
Shown

RECORD





## IPS Field Monitor

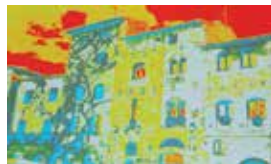
With its 5-inch, IPS display, the PIX 240i becomes an accurate field monitor for production cameras. The display's accurate color representation and excellent off-axis visibility assist in framing, exposure evaluation, and focus evaluation. It offers 12-step false color or two-level zebras, peaking or edge enhancement, and 1:1 pixel viewing.

Defeatable detail overlaid on the picture includes audio metering, timecode, file type, record status, and frame rate information. The display is also used to view the simple menu interface. Time Code and record state displays can be sent out the SDI and HDMI outputs.

### EXPOSURE ASSIST



Multi Level Zebras



False Color

### FOCUS ASSIST



Edge Enhancement



Peaking

## Controls

The side panel rotary knob makes menu navigation fast and simple. Simple controls and a straight-forward, plain-language menus make setup easy for both new and experienced users. Large, illuminated, tactile record, stop, play, rew, and fast-forward controls are easy to access, even with gloved hands. Screen and button brightness are adjustable.

## Playback

The PIX 240i offers a wide range of playback features. Off-speed, forward, backward, freeze-frame, looping, and custom playlists give users extensive playback control. File markers can be set while in record or playback mode with the press of a button. Loop playback modes allow continuous looping playback of entire files or between files markers. Playlists allow users to quickly organize multiple files for consecutive or loop playback.

## Powering

The PIX 240i is powered from removable Sony-compatible (L-mount) lithium-ion camcorder batteries or external 10-18 VDC power. Battery mounts are connected in parallel so batteries can be hot-swapped during operation, with no loss of power. When external power is removed with a battery attached, the PIX 240i seamlessly transfers to battery power. The power source and voltage is shown on the on-screen display.



Optional XL-B2 Shown

## File Storage and Transfer

The PIX 240i records and plays Quicktime files from either CompactFlash cards or removable 2.5-inch solid-state drives (recording media and PIX-CADDY are optional accessories).

Both CompactFlash and SSD media are formatted by the recorder as UDF volumes. UDF is directly mountable, readable, and writable in Mac OS and Windows.



## Superb Audio Performance

With its deep expertise in production sound, Sound Devices included no-compromise audio performance into the PIX 240i. Its full-sized XLR audio inputs accept microphone or line level signals. Microphone-level inputs offer 48 V phantom power, input limiters, and high-pass filters. Inputs can also accept AES3 digital audio, up to four channels.

Since video cameras often introduce several frames of delay because of internal processing, audio signals connected directly to the PIX 240i can be delayed by up to 500 ms to accommodate that delay and provide perfect synchronization between video and audio signals.



## Time Code Generator

The PIX 240i is right at home on any production from simple single camera shoots, to complex multi-camera sync-sound productions. The on-board high-accuracy Ambient time code generator supports all common time code frame rates and modes. Embedded time code over SDI and HDMI is also supported.



# PIX ACCESORIES

## PIX-HOOD

Sun shield for the PIX 220i and PIX 240i Portable Video Recorders. Connects to the PIX 220i or PIX 240i magnetically.

## 1 PIX-CADDY

2.5-inch SSD caddy 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-DOCK

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

## 2 PIX-ARM

Articulating arm for mounting PIX 220i and PIX 240i Portable Video Recorders to camera. Central knob locks all joints.

## PIX-LCD

Clear shield to protect the LCD display of the PIX 220i and PIX 240i.

## XL-WPH3

45 W in-line AC-to-DC power supply. Hirose 4-pin DC plug; with detachable IEC power cord (included).

## XL-B3

7.2 V, 6600 mAh battery pack for PIX 220i and PIX 240i. Also compatible with 7-Series audio recorders. Sony L-type mount.



## PIX 220i

For cameras with HDMI I/O only, the PIX 220i is a great choice. It records the same Apple ProRes and Avid DNxHD files as the PIX 240i. The PIX 220i is perfect for smaller format high-definition cameras where time code workflows are not required.



## XL-AB

Hirose 4-pin connector to an Anton Bauer D-Tap connector.



## XL-H4

Hirose 4-pin to XLR (male) 4-pin. Provides a power connection to XLR-4 power supplies.



## XL-5

5-pin XLR-M output to dual balanced, 3-pin XLR output.



## XL-LL

LEMO@-5 to LEMO@-5 coiled-cable for time code interconnection of multiple time code enabled devices.



## XL-LX

LEMO@-5 to XLR-M and XLR-F cable for time code connection of audio and video equipment with XLR connectors.



## XL-LB2

LEMO@-5 to BNC input and BNC output cable for time code connection of audio and video equipment with BNC connectors.

<b>Video Input / Output</b>	<b>PIX 220i</b>	<b>PIX 240i</b>
HDMI Input (480i, 525i, 720p, 1080i, 1080p), v1.4a	✓	✓
3G-SDI 4:4:4 12-bit, HD-SDI Input (480i, 525i, 720p, 1080i, 1080p)	-	✓
HDMI Output, v1.3	✓	✓
3G-SDI 4:4:4 12-bit Output	-	✓
Up/Down/Cross /Anamorphic Conversion of 480i, 525i, 720p, 1080i, 1080p	✓	✓
3:2 Pull Down Removal to Record 24p from 60i Signal	✓	✓
<b>File Formats</b>		
Apple ProRes 4444 12-bit, 422 10-bit (Proxy/LT/422/422HQ)	✓	✓
Avid DNxHD 36, 145, 220 Mb/s, 8- and 10-bit	✓	✓
.mov Quicktime File Wrapper	✓	✓
<b>File Storage</b>		
CompactFlash, High-Speed (UDMA required)	✓	✓
Accepts Removable PIX-CADDY2 (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	-	✓
<b>Time Code / Sync</b>		
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 SDI and HDMI (HDMI timecode for select cameras)	-	✓
Tri-Level Sync Out, Genlock	-	✓
Word Clock Out	-	✓
<b>Audio Input / Output</b>		
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	✓	✓
<b>Mechanical and Powering</b>		
10-18 VDC on Hirose 4-pin or Sony L-series batteries (2)	✓	✓
Large, Illuminated Record Control Buttons	✓	✓
Molded, Metalized Carbon Fiber Chassis with External Whisper-Quiet Cooling Fan	✓	✓
<b>Display</b>		
5" IPS 800 x 480 Pixel Panel with Focus and Exposure Assist	✓	✓



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