

PIX 240i

PIX 240i Specifications

SDI Input & Output

SMPTE 12M-1, 12M-2, 125M, 259M, 272M, 291M, 292, 296M, 299, 352M

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 (SDI Only)
720p50/59.94/60
576i50 (PAL)
480i59.94 (NTSC)

Video Codecs and Files

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

Up/Down/Cross Conversion

480i, 576i, 720p, 1080i, 1080p to any 480i, 576i, 720p, 1080i, 1080p

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

LCD Display

5-inch LCD; 800 x 480 resolution.

Audio Recording

8 channels record/playback, simultaneous with video
Analog, HDMI or SDI, AES/EBU, selectable per channel

Analog Audio

2 Balanced, mic- or line-level inputs on XLR. (48V phantom switchable)
2 Balanced, line-level outputs on 5-pin 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
Headphone, 1/8" with gain control

Digital Audio

Sampling Rate / Bit Depth: 48 kHz, 24-bit
AES/EBU: 4 channels in via XLR, 110 ohm, 2 V p-p.
Accepts 32k, 44.1k, 48k, 96k, 192k sample rates with SRC at input.
HDMI: 2 channels embedded HDMI input, 8 channels embedded HDMI output
Accepts 32k, 44.1k, 48k, 96k, 192k sample rates.
SDI: 8 channels embedded SDI input, 8 channels embedded SDI output, 48k sample rate

File Storage

PIX-CADDY mounted drive or eSATAp-connected drive: Sound Devices approved 2.5-inch drive
CompactFlash card: Sound Devices approved CF card
eSATAp supplies 5V @ 2A

Timecode

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), LEMO 5-pin

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)

Control

Record triggering via SMPTE timecode
LANC or GPIO on 2.5mm jack

Keyboard

USB host. Keyboards without hubs acceptable.

Power

4-pin Hirose, 10-18 VDC, pin-1 (-) pin-4 (+)

Physical

Size (H x W x D): 5.5" x 4.0" x 2.4" (14 cm x 10.2 cm x 6.1 cm)
Weight: 2.0 lbs
Operating Temperature: -10C to +40C