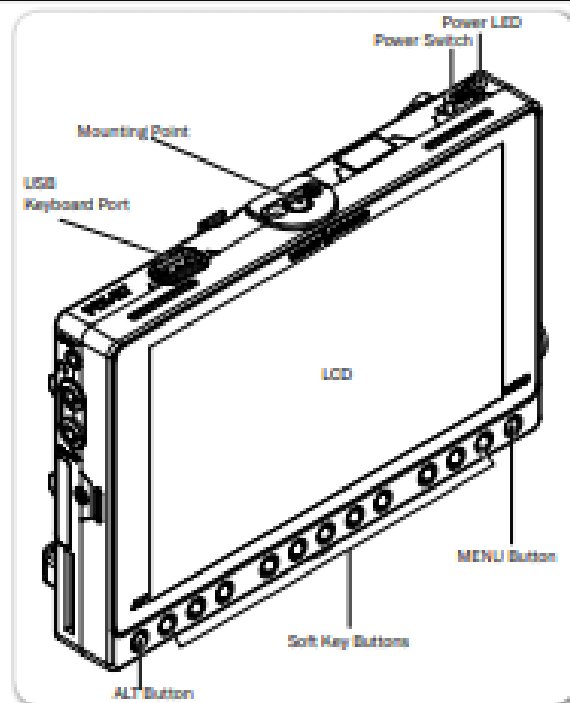


VIDEO  **DEVICES**



PIX-E7

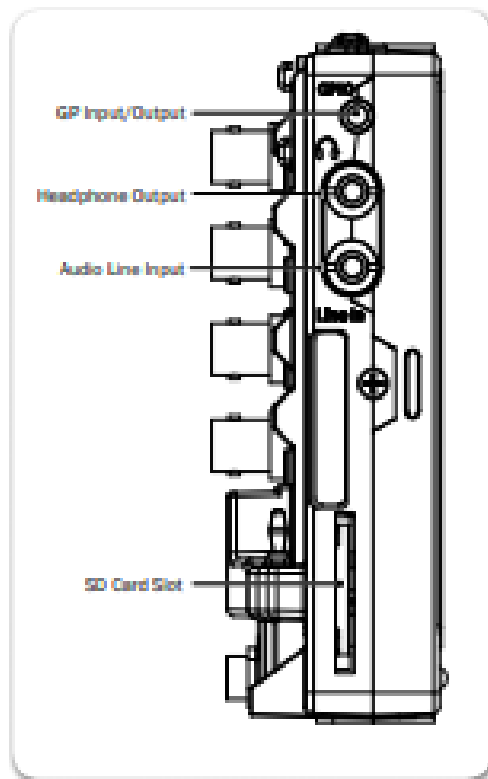
Recording Field Monitor



FEATURE	DESCRIPTION
Power Switch & LED	Slide the Power switch to the right to turn on the device. While power is on, the LED will illuminate green. When power is first turned on, a splash screen with the Video Devices logo will appear on the LCD.
ⓘ	<i>PIX-E monitors have a very powerful processor and operating system, so it takes up to 45 seconds to boot the first time. However, the QuickBoot™ feature reduces subsequent boot times to just a few seconds. QuickBoot is enabled for two hours after powering down the monitor. Each time the monitor is turned off, this timer is reset. During this time, boot times are reduced, but after two hours, QuickBoot is deactivated and powering on the monitor will result in a normal, longer boot process.</i>
USB Keyboard Port	Use this port to connect a USB keyboard for entering metadata and remote control.
Mounting Point	Centered on the top and bottom panels, a 3/8-inch, 20 threaded, stainless-steel mounting point may be used to attach the monitor to a camera or other production gear, such as the PIX-ARM.
LCD	7-inch LCD touch screen. 1920x1200 pixel resolution. Displays the user interface, source video, and playback video, as well as operating information when the on-screen display is active.
ALT Button	Toggles alternative functions for the Soft Key buttons. It may be used in combination with the Control knob to reset a setting to its default. It may also be used to exit various screens and return to the live video screen.
MENU Button	Displays the Main menu. May also be used to exit various screens.
Soft Key Buttons	Multi-functional buttons. Each soft key button's function is displayed as a label on the LCD directly above the button.

Left Side Panel

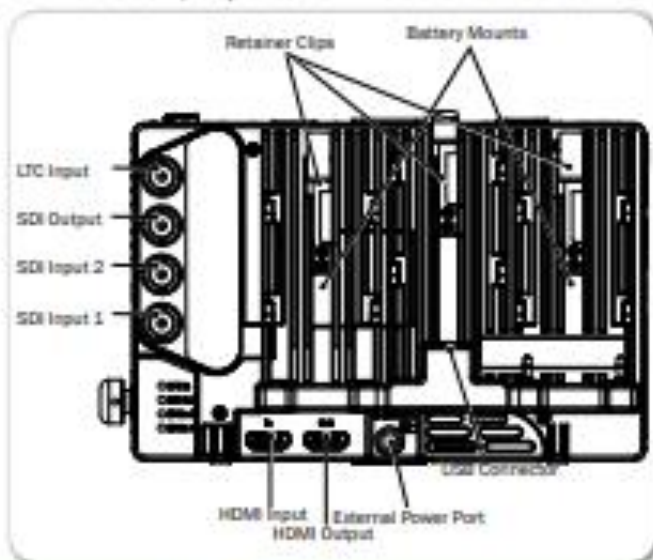
The left side of the PIX-E7 provides a SD card slot, and various I/O ports for audio and general purpose control.



FEATURE	DESCRIPTION
GPIO	General purpose input/output—a useful input for integration with remote controls or as an output for triggering “On Air” lighting.
Headphone Output	1/4-inch (3.5mm) unbalanced stereo headphone output.
Audio Line Input	1/8-inch (3.5mm) unbalanced, line-level, 2-channel input.
SD Card Slot	Accepts standard SD cards (SDSC, SDHC, and SDXC) for loading firmware as well as saving and loading setup files.

Back Panel

The back panel features two battery mounts, a USB connector for mounting a SpeedDrive, and various I/O ports for video and audio.



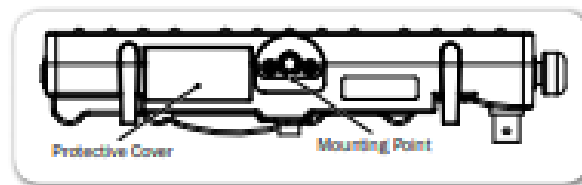
FEATURE	DESCRIPTION
Battery Mounts	Located on the back panel are two mounts for Sony® L-Series Lithium-ion batteries, or third-party batteries compatible with the mount.
USB Connector	Centered between the battery mounts on the back panel is the USB connector for a SpeedDrive with installed mSATA drive. <i>⚠ The USB connector cannot be used with any USB-based drive.</i>
Retainer Clips	Silvery retainer clips snap into place to securely hold batteries and/or the SpeedDrive™ to the back of the monitor. Depress the spring-loaded retainer clips toward the front of the monitor to release the drive and batteries.
HDMI Input	Accepts HDMI (1.4a) signal with four channels of embedded audio. <i>⚠ The monitor does not record or display content encoded with HDCP copy protection.</i>
HDMI Output	Outputs HDMI video with up to eight channels of embedded audio.
LTC Input	Linear timecode input.
SDI Output	Outputs up to 8 channels of embedded audio.
SDI Input 1 & 2	Accepts up to 8 channels of embedded audio.
External Power Port	Use to connect the PIX-E PSU. It accepts 10-34 V DC, threaded coaxial connector (pin positive, sleeve negative) with a 5.5 mm outer diameter and 2.1 mm inner diameter.

- ⚠ Caution regarding power supply: The PIX-E PSU must be connected to a protective earthing connection to ensure safety. The power supply's cord acts as the disconnect device. The cord must be readily accessible and remain readily operable.**

⚠ Caution regarding battery usage: There is danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type. Properly recycle batteries. Do not crush, disassemble, incinerate, dispose in a fire or expose batteries to high temperatures.

Bottom Panel

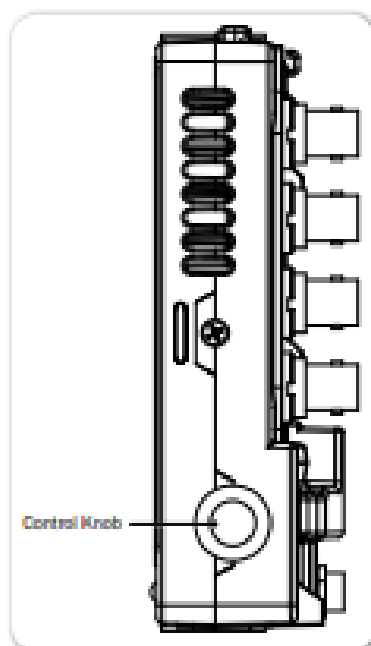
The bottom panel offers a ¼-inch, 20-threaded mounting point to secure the monitor to cameras and other devices.



FEATURE	DESCRIPTION
Mounting Point	Centered on the top and bottom panels, a ¼-inch, 20 threaded, stainless-steel mounting point may be used to attach the monitor to a camera or other production gear, such as the PIX-ARM.
Protective Cover	This removable cover is attached with adhesive to the monitor's bottom panel and protects the connection used for integration with the optional PIX-LR accessory.

Right Side Panel

The right panel features a Control knob and vents for internal fan.



FEATURE	DESCRIPTION
Control Knob	Use the Control knob to navigate menu settings (by turning it) and selecting menu options (by pressing it in). It may also be used for scrolling across screen while in zoom mode, plus a range of other functionality, such as shuttle or jog in play mode.

PIX-E7 Specifications

Video

HDMI	Input <ul style="list-style-type: none"> • 4:4:4 or 4:2:2, 8/10/12 bit, RGB or YCbCr • Version 1.4a • HDCP enabled 	Output <ul style="list-style-type: none"> • 4:2:2, 8 bit, YCbCr • Version 1.3
SDI	Input <ul style="list-style-type: none"> • 6G-SDI, 3G-SDI (level A and B), HD-SDI • 4:4:4 or 4:2:2, 8/10/12 bit, RGB or YCbCr • SMPTE 292, and 424 	Output <ul style="list-style-type: none"> • HD-SDI • 4:2:2, 10 bit, YCbCr • SMPTE 292 • Progressive, 30fps max

Supported Input Resolutions and Rates	<ul style="list-style-type: none"> • 4096p30** • 4096p29.97** • 4096p25** • 4096p24** • 4096p23.98** • 3840p30** • 3840p29.97** • 3840p25** • 3840p24** • 3840p23.98** • 1080p120** • 1080p119.88** • 1080p100** • 1080p60 • 1080p59.94 • 1080p50 • 1080p30 • 1080p29.97 • 1080p25 • 1080p24 • 1080p23.976 • 1080i60 • 1080i59.94 • 1080i50 • 1080PsF30* • 1080PsF29.97* • 1080PsF25* • 1080PsF24* • 1080PsF23.976* • 720p120** • 720p119.88** • 720p100** • 720p60 • 720p59.94 • 720p50 • 720p30* • 720p29.97* • 720p25* • 720p24* • 720p23.976* 	<p style="text-align: right;"><small>* SDI only, ** HDMI only</small></p>
Codecs (Max resolution & frame rate)	<ul style="list-style-type: none"> • Apple ProRes 4444XQ, 12 bit* (1080p30) • Apple ProRes 4444, 12 bit (1080p30) • Apple ProRes 422HQ, 10 bit (4kp30 / 1080p60 / 720p60) • Apple ProRes 422, 10 bit (4kp30 / 1080p60 / 720p60) • Apple ProRes 422LT, 10 bit (4kp30 / 1080p60 / 720p60) • Apple ProRes 422Proxy, 10 bit (4kp30 / 1080p60 / 720p60) • H.264 (Variable bit rate - typical 5-10 Mbs) <p style="text-align: right;"><small>* SDI Log-encoded inputs only</small></p>	
4K to HD Conversion	<ul style="list-style-type: none"> • 4K input to HD output • Automatic 4K to 1080p scaling for H.264 	
Input to file conversion	<ul style="list-style-type: none"> • 1080i to PsF • PsF to P 	
Video I/O conversion	<ul style="list-style-type: none"> • SDI to HDMI • HDMI to SDI 	
LCD Display	<ul style="list-style-type: none"> • 7-inch In-Plane Switching (IPS) Liquid Crystal Display (LCD) • Gorilla® Glass 2 • Capacitive touch screen • 1920 x 1200 pixel resolution with true 16x9 ratio • 323 ppi • 179° angle of view • 500 nits brightness • 1000:1 contrast ratio 	

Audio

HDMI	4 channels embedded HDMI input, 8 channels embedded HDMI output
SDI	8 channels embedded SDI input, 8 channels embedded SDI output
H.264	2 channels AAC-encoded audio (channels 1 & 2)
Headphone	¼ in (3.5 mm) TRS with gain control
Line In	¼ in (3.5 mm) TRS, Unbalanced 2-channel
Sample rate / bit depth	<ul style="list-style-type: none">• 24-bit• Sample rate synced to active video input (SDI or HDMI). Typically 48 kHz.

Storage

Formats	<ul style="list-style-type: none">• exFAT drive format (SpeedDrive and SD card)• QuickTime (.mov) video file format (SpeedDrive)• (.mp4) video file format (SpeedDrive and SD card)• XML setup file format (SpeedDrive and SD card)
SpeedDrive™	<ul style="list-style-type: none">• Internal mSATA Drive• USB 3.0 interface• Dimensions (WxHxD): 1.5 in x 3.35 in x 0.5 in• Weight: 1.2 oz (without drive)
SD card	<ul style="list-style-type: none">• Types: SD, SDHC, SDXC

① See list of approved media at: www.videodevices.com/approved.

Timecode

Modes Supported	<ul style="list-style-type: none">• Ext TC (SDI/HDMI) (RP188)• Time of Day• Rec Run• Ext TC (Line In 1)• Ext TC (Line In 2) <p>① Start timecode is stamped in the QuickTime file. LTC may be striped to Line In 1 or Line In 2 audio tracks.</p> <ul style="list-style-type: none">• Ext TC (BNC)
Frame Rates	23.976, 24, 25, 29.97DF, 29.97ND, 30DF, 30ND
Inputs	<ul style="list-style-type: none">• SDI Input BNC• HDMI• LTC In BNC• Line In 3.5 mm
Outputs	<ul style="list-style-type: none">• SDI Out BNC

Power

External	External 10-34 V DC, threaded coaxial connector (5.5 mm outer diameter, 2.1 mm inner diameter), pin positive, sleeve negative
Batteries	2x Removable 7.2 v (nominal) Sony® type L Series Lithium-Ion
Power Draw	13-16W quiescent, depending on settings

Physical

Dimensions (WxHxD)	7.3 in x 4.9 in x 1.5 in (18.5 cm x 12.4 cm x 3.8 cm)
Weight	1 lb 7 oz

Environmental

Operating Temperature	-10° C to +40° C
-----------------------	------------------