



Epiphan Video Pearl Mini

ProdCode: EPIESP1441

Portable all in one video production system

[Download Images] (.zip file)

Features

- Portable all in one video production system
- Record, stream and switch up to three full HD video inputs from HDMI, IP, SDI, and USB sources
- Stream to viewers everywhere - Simultaneously live stream to YouTube, Facebook or other content delivery networks and content management systems using SRT, HLS, MPEG-DASH, custom RTMP/RTMPS, and RTSP
- Locally share unicast or multicast streams to up to 50 viewers with popular streaming protocols such as HTTP, HLS, FLV, ASF, UPnP, and SAP
- Stream content securely with Secure Reliable Transport (SRT) end-to-end 256 bit AES encryption, HLS and MPEG-DASH over HTTPS, as well as Real Time Messaging Protocol Secure (RTMPS)
- 1080p HD Recording
- Automatic or manual file uploads
- Save recordings directly to a 512 GB EXT4 SD card (sold separately)
- Switch video sources live
- Design custom layouts like PiP with the easy drag-and-drop custom layout editor
- [HETMA](#) approved

The most reliable, all-in-one video production system that's small in size and big on pro features.

Record, stream and switch up to three full HD video inputs from HDMI™, SDI, and USB sources. Epiphan Pearl Mini™ takes your video production to the next level.

Stream to viewers everywhere

Simultaneously live stream to YouTube, Facebook or other content delivery networks and content management systems using SRT, HLS, MPEG-DASH, custom RTMP/RTMPS, and RTSP. At the same time, use the built-in streaming server to stream locally to web browsers, smart TVs, and set-top boxes. Integration with Kaltura and Panopto CMSs means no complicated stream URLs to set up. Just schedule your webcast event and start streaming.

Share your webcast

Locally share unicast or multicast streams to up to 50 viewers with popular streaming protocols such as HTTP, HLS, FLV, ASF, UPnP, and SAP.

Secure streaming

Stream content securely with Secure Reliable Transport (SRT) end-to-end 256 bit AES encryption, HLS and MPEG-DASH over HTTPS, as well as Real Time Messaging Protocol Secure (RTMPS).

Leverage SRT for high-quality, low-latency video streaming

The Secure Reliable Transport (SRT) protocol uses the latest in live streaming technology to keep your live video productions looking great. Add a remote guest or contributor over SRT to bring professional-quality sources into your Pearl-powered productions.

1080p HD Recording

Pearl Mini's hardware-accelerated encoder provides flawless H.264 encoding for maximum performance. Record a program and ISO in AVI, MP4, MOV, or MPEG-TS formats directly to a 512 GB EXT4 SD card* and automatically upload to a USB stick or server on the network.

*User supplied

Automatic or manual file uploads

Fail proof recordings and upload files automatically to a server while you record locally to the SD card. Transfer recordings to a USB drive or network storage (FTP or SFTP) for post processing.

SD Card

Save recordings directly to a 512 GB EXT4 SD card (user supplied). Easily download recordings and manage files using the Admin panel or Epiphan Live.

Switch video sources live

Incredibly easy to use, Pearl Mini's 7 inch touch screen makes switching between video sources and layouts a breeze. Or use the browser-based Epiphan Live and switch from almost anywhere using a tablet, PC, or mobile phone.

Custom layout designer

Design custom layouts like PiP with the easy drag-and-drop custom layout editor. Combine, crop, and scale video sources to make dynamic layouts. Add transparent png images, custom backgrounds, text overlays, timestamps and more.

Easy PiP layouts

Make PiP, side-by-side, three quarter layouts and more for dynamic looking visual presentations. The possibilities are endless.

Images and dynamic text

Customize the look of your event with transparent .png images and custom backgrounds. Easily add timestamps and other dynamic text content to layouts. Create custom system variables for even more flexibility, like adding the current GPS location.

Video inputs

Connect cameras, computers, imaging equipment or just about anything to Pearl Mini HDMI encoder. Standard and custom resolutions up to 1920×1200 from SDI, HDMI, USB, and H.264 network-based SRT and RTSP sources are accepted.

- 1x 3G SDI
- 2x HDMI 1.4a

- 2x USB 3.0 (UVC/UAC)
- RTSP (H.264)
- SRT

Video output

Send an HDMI feed of your switched program to projectors for front-of-house presentations, display walls, or monitors for confidence monitoring. Share the program output or just an individual input source.

- 1x HDMI 1.4a
- SRT

Network

Connect to the network over Ethernet.

- 1x 10/100/1000 Ethernet port (RJ45)

Audio inputs

Mix embedded audio from SDI, HDMI, or USB video sources with audio from XLR microphones and professional mixers with individual input gain controls. Confidently monitor audio levels with on-screen VU meters and headphones.

- 2x XLR (L/R stereo pair or mono, balanced/unbalanced mic and line level signals +4.0 dBu up to 12.3 VRMS +24 dBu). Phantom optional
- 2x 1/4" TRS (L/R stereo pair or mono, balanced/unbalanced line level signals +4.0 dBu up to 12.3 VRMS, +24 dBu)
- 2x RCA (L/R stereo pair, -10 dBV consumer line-level)
- 1x 3.5 mm (stereo/unbalanced for electret microphones)

Audio output

Connect headphones to the front-mounted 3.5 mm audio jack and monitor audio levels with on-screen VU meters.

- 1x 3.5 mm audio jack

Plug and play, or tweak to perfection

Pearl Mini HDMI encoder is ready to use out of the box. Connect video sources directly to the HDMI inputs and start recording those right away using the intuitive

touch screen. Or dig into the control interface and create a truly custom video presentation experience for your viewers.

Intuitive touch screen and One Touch start

Even unexperienced operators can control recording and streaming on Pearl Mini with confidence. One Touch lets you start/stop recording and streaming with a simple tap of the screen. Conveniently monitor your inputs and switch at the same time.

Epiphan Live™

Switch your live program and instantly see the results using Epiphan Live.

API and RS-232

Comprehensive HTTP/HTTPS and RS-232 APIs for third party integrations.

Remote login

Login to your Pearl Mini hardware encoder securely from anywhere over an Internet connection. Quickly take control of Pearl Mini for remote rescue troubleshooting, support technicians in the field, control recording, switching, and more.

Web-based UI for advanced control

From the web-based Admin panel, set up your channels and recorders, select custom resolutions and streaming options, configure security features like 802.1x, monitor system health, and more.

Local Admin panel

No need to bring along a laptop to configure Pearl Mini. Connect a USB mouse, keyboard, and HDMI monitor for easy Admin panel access anywhere, anytime. You can even use a touch screen monitor.

Integrate with your Crestron System

Integrate Pearl Mini video encoders more easily into Crestron AV systems using the Crestron-developed Control Module for Pearl. The bulk of the coding already is done. Build upon the Crestron driver's existing code base for secure, API control over HTTP or HTTPS.

Comprehensive CMS support including Kaltura and Panopto

Full API integrations provide an effortless lecture capture and enterprise communication setup experience. Simply register Pearl Mini with your CMS to start using the video encoder for scheduled, multi-camera VOD events, ad hoc events, and webcasting without complicated programming.

Secure live streaming and control

Stream securely using the latest protocols. Pearl encoders support Secure Reliable transport (SRT) with end-to-end 256 bit AES encryptions, HLS and MPEG-DASH over HTTPS, as well as Real Time Messaging Protocol Secure (RTMPS). And enjoy worry-free deployment in your enterprise network with support for 802.1x certificate authentication and HTTPS for encrypted admin access.

Digital certificate management

Pearl Mini supports PEAP, EAP-TLS, and EAP-TTLS authentication access control methods on 802.1x networks using passwords, usernames, and digital certificates. Easily upload and manage digital certificates on Pearl Mini using the Admin panel.

Role-based access control and LDAP support

Login to Pearl Mini with administrator, operator, or viewer privileges. LDAP authentication support on Pearl Mini lets you define domain name (DN) groups to assign user roles in bulk so users can login with their LDAP credentials.

Secure streaming

Get end-to-end secure streaming with up to 256 bit AES encryption using SRT or encrypt content over TLS/SSL connections using RTMPS. Use HLS and MPEG-DASH to secure live streaming over HTTPS.

HTTPS and SFTP secure data transport

Securely access the Admin panel and configure Pearl Mini over an HTTPS connection. Encrypt and send sensitive recordings from Pearl Mini to offsite SFTP servers using Automatic File Transfer.

In the box:

- Pearl Mini
- 1 x Power Supply

