

PEARL NANO

# The perfect-fit streamer and recorder



 epiphan video

Works with

 Panopto™

 kaltura

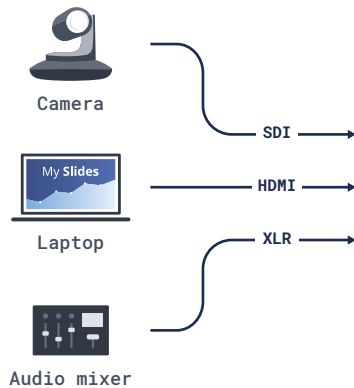
 CRESTRON



## Pearl Nano™ Portable and versatile hardware encoder

Pearl Nano offers the ultimate blend of portability and versatility with a refined yet robust feature set that includes ingestion, encoding, HDMI pass-through, and recording.

### CONNECT YOUR SOURCES

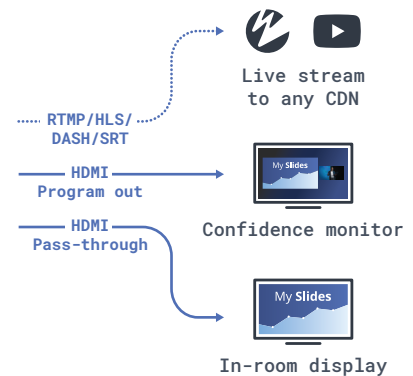


PEARL NANO



REC Record to SD card or SSD

### OUTPUT YOUR VIDEO



# Fine-tuned for your productions

Streamline your setup with the ability to directly connect HDMI and SDI video sources and XLR, RCA, or USB audio to Nano along with Power over Ethernet Plus (PoE+). For zero-latency display of video sources on in-room monitors, Nano also features a built-in HDMI pass-through.



# Flexible recording and storage

Nano makes it easy to record, transfer, and back up files with a variety of storage options.

## **SD card**

Convenient SD card slot on the front of the device for storage.

## **SSD drive**

Need more local storage? Just add an M.2 SATA SSD to Nano's expansion bay.

## **Easy file transfer**

Nano can automatically transfer recorded files to a USB drive, local server, or network-attached storage device.

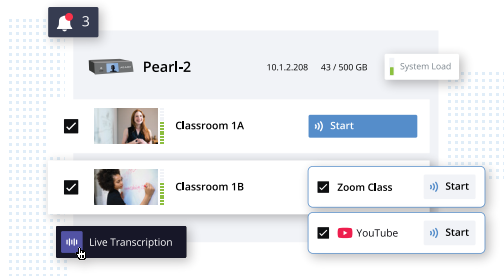


## Control Nano your way

Use Pearl Nano's front screen for basic configuration and control, jump into the browser-based interface or local console to access all the features this small but mighty encoder has to offer, or centralize configuration and monitoring with Epiphan's cloud-based platform.

## Key functions at your fingertips

Nano's front screen offers quick access to essential functions including basic configuration and easy streaming and recording. During events, the built-in screen serves as at-a-glance verification of your audio level and video program for production peace of mind.

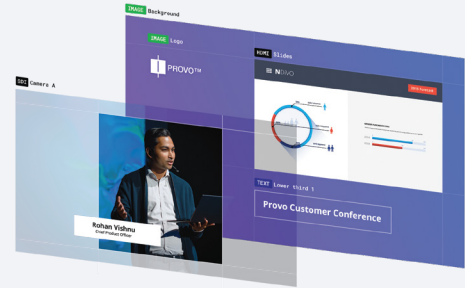


## Cloud-based configuration and monitoring

Epiphan Cloud streamlines configuration and monitoring of multiple Pearl Nanos and other Epiphan hardware with centralized access to key device statistics including operational status, system load, unit temperature, available storage, and overall health.

## Elevate your productions

Build a beautiful layout for your video program with Nano's powerful custom layout designer. Create anything from simple picture-in-picture layouts to eye-popping compositions featuring dynamic backgrounds and other custom graphics – whatever suits your event best.



## Ideal for SRT contributions

The compact and lightweight Pearl Nano supports Haivision's open-source Secure Reliable Transport (SRT) protocol for secure, high-quality, low-latency video streaming over any given network.

## Pair with Panopto or Kaltura

Deep integration with Panopto and Kaltura lets you start and stop scheduled streaming or recording events using Nano's built-in screen and controls. The system can also push recordings to a user's folder on either platform to save administration time after events.



# Small size, big capabilities



## Screen for monitoring and config

Use the front screen for basic configuration/control and confidence monitoring



## HDMI pass-through

Display video sources on in-room monitors with zero latency



## HDMI and SDI video inputs

Directly connect HDMI and/or SDI video sources to Nano



## XLR, RCA, and USB audio

Connect professional audio equipment with line-level XLR



## Custom layout builder

Enhance your video program with a tailored layout



## SRT encoding and decoding

Stream via SRT or use as a compact SRT contribution encoder



# Key features

- Front screen for basic configuration/control and confidence monitoring
- Video inputs for HDMI and SDI
- Audio inputs for line-level XLR, RCA, and USB
- HDMI program out and pass-through for zero-latency content display
- Custom layout builder for a tailored video program
- Intuitive browser-based UI and local console
- Cloud-based configuration and control via Epiphan Cloud
- SRT, HLS, MPEG-DASH, RTMP, and RTMPS streaming protocol support
- Secure Sockets Layer (SSL)
- Comprehensive integration with Kaltura and Panopto
- Power over Ethernet Plus (PoE+) and DC power
- Save recordings directly to an SD card (user supplied)
- Expansion bay for user-supplied M.2 SATA SSD
- Automatically transfer recordings to a USB drive or networked server
- 802.1x network access control
- Lightweight Directory Access Protocol (LDAP)
- Integration with Crestron Systems



<b>Video inputs</b>	<b>Connectors:</b>	1 × HDMI™, 1 × 12G SDI, 1 × USB 3.0 (coming soon)
	<b>Network inputs:</b>	SRT and RTSP
<b>Audio inputs</b>	<b>Connectors:</b>	2 × XLR line level (stereo pair or two mono), 1 × USB, 1 × SDI, 1 × HDMI, 1 × RCA
	<b>Audio gain control:</b>	0 dB to +30 dB
<b>Video outputs</b>	1 × HDMI pass-through, 1 × HDMI program out	
<b>Video encoding</b>	<b>Codecs:</b>	H.264, H.265 (coming soon as a paid upgrade)
	<b>Color resolution:</b>	4:2:0
	<b>Resolution:</b>	User selectable up to 1920 × 1200 (4K coming soon as a paid upgrade)
<b>Streaming protocols</b>	RTMP/RTMPS, SRT, HLS, MPEG-DASH, RTSP, MPEG-TS, UPnP	
<b>Encoded programs</b>	1 × 1080p program at 60 fps (with up to 2 Full HD sources; 4K coming soon as a paid upgrade)	
<b>Audio encoding</b>	MP3, PCM, and AAC (sampling 16 to 48 kHz with bitrate up to 320 kbps)	
<b>Network</b>	1 × 10/100/1000 Ethernet port (RJ45)	
	802.1x network security and certificate management	
<b>Storage</b>	<b>SD card:</b>	Up to 512 GB EXT4
	<b>Internal storage:</b>	SATA M.2 2280 SSD (M Key connector)
	<b>Local USB:</b>	Automatic or manual copy via 1 USB 3.0 port
	<b>Network storage:</b>	FTP, SFTP, SCP, RSYNC, CIFS, AWS, or WebDav servers
<b>Recording formats</b>	AVI, MP4, MOV, or MPEG-TS	
<b>Control</b>	Browser-based Admin panel, front screen and control keys, remote login, HTTP, and RS-232 APIs	
<b>Dimensions ( W × D × H )</b>	8 1⁄8" × 5 7⁄8" × 1 5⁄8" (206 mm x 149 mm x 41 mm), 2 lbs (907 g)	

[www.epiphan.com](http://www.epiphan.com)

Email: [info@epiphan.com](mailto:info@epiphan.com)  
 North America +1-877-599-6581  
 International +1-613-599-6581

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