

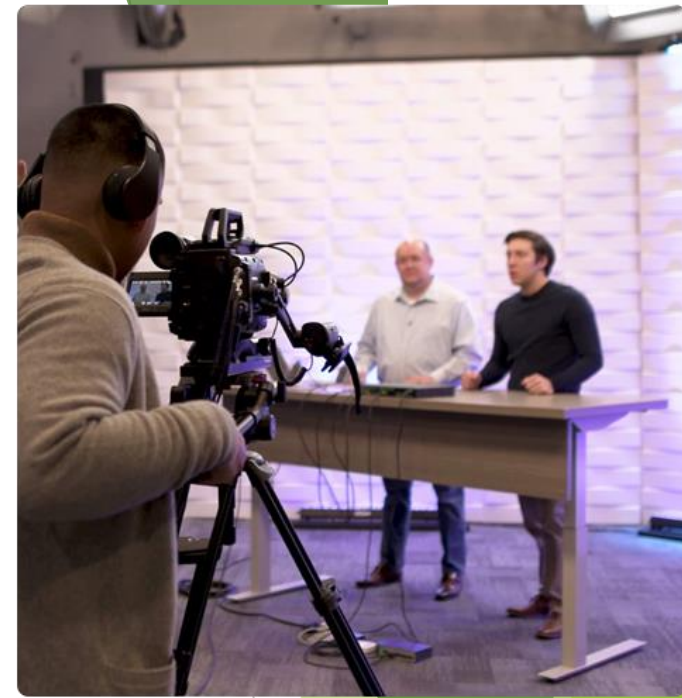
Epiphan Video

Broadcast without barriers

We believe in broadcast-quality for everyone.

Empowering creative professionals

Trusted



Intuitive



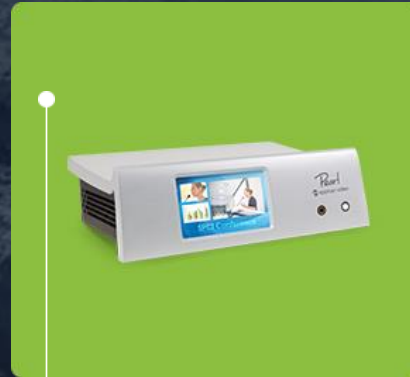
Innovative



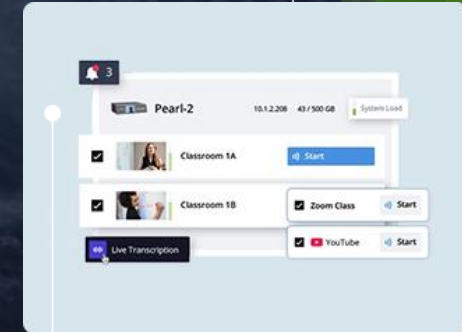
18 years of innovation



Developed video capture technology
used on Mount Everest and the ISS



Created new product category
with Pearl, the all-in-one
streamer, recorder, switcher



Introduced Epiphan Cloud™ to
manage edge hardware remotely

2003

2015

2020

Markets we serve



Live event
production



Education



Corporate



House of
worship



Legal



Government

Live event production



Live event applications



Hybrid events



Arts and
entertainment



Corporate
events



Sports



Production
studios



Virtual
conferences

FreemanTM

m|EVENTS

MARKEY'S

 **encore**

 Lightvision

PRG

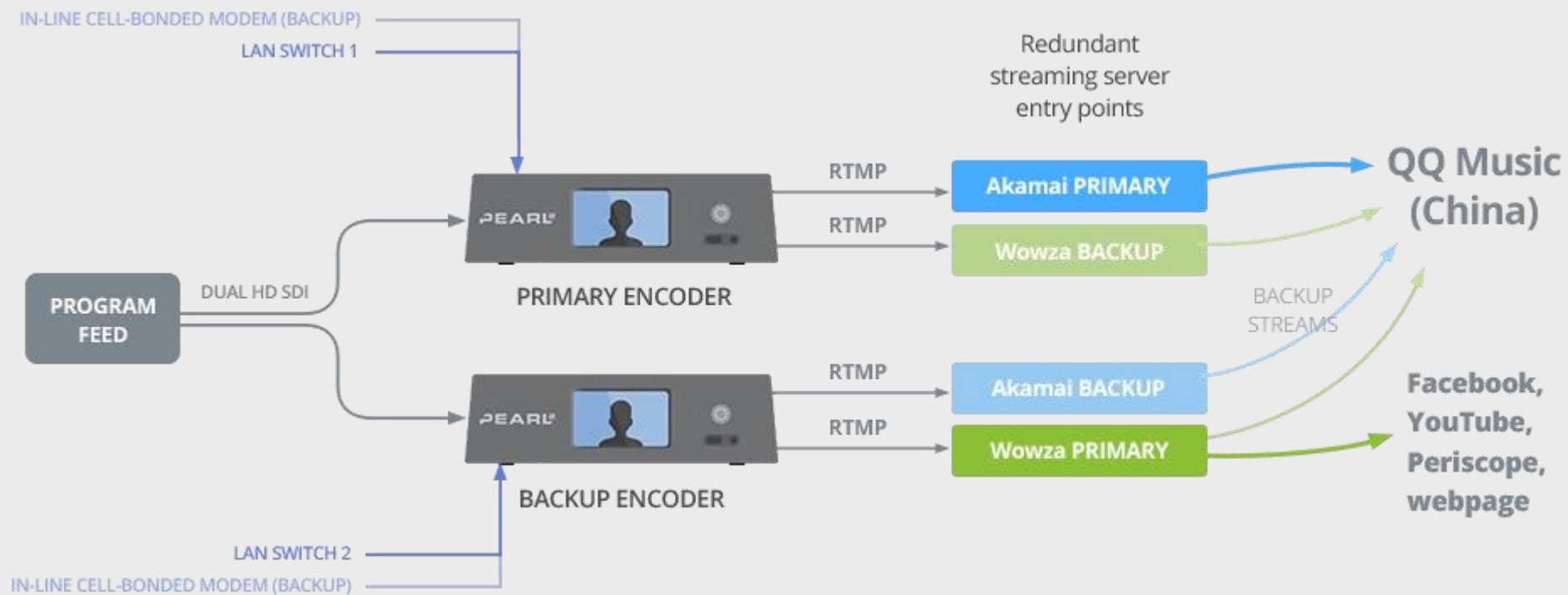



“There is no wiggle room for failure. Epiphan Pearl devices haven’t failed us once.”

Mike Salas, MSAVi Pro



Multi-streaming Imagine Dragons concert



Seamless, broadcast-quality productions



2021 **BIZWORLD** EXPO



HIROSHI LUONG

Business development leader



CATHERINE J STEWART

Data development executive

- ← 4K multi-camera production
- ← Dynamic layouts
- ← Stream to multiple platforms
- ← Record program and ISOs

Education



Classroom A15

☐ ☐

Marketing A15

EARLY ADOPTER

EARLY MAJORITY

LATE MAJORITY

LAGGARDS

GENDER PURCHASING BIAS

The first 2 years of the project have shown results that point to a strong preference based on gender.

Year	Gender	Percentage
2014	Male	75%
	Female	25%
2015	Male	60%
	Female	40%





“I’m very happy with our decision to use Pearl. It’s now our lecture capture standard.”

Gabe Russell, Harvard Division of Continuing Education



Education applications



Lecture
capture



Online
learning



School event
streaming



Flipped and hybrid
classrooms



On-campus video
recording studios



Live speech-to-text
transcription

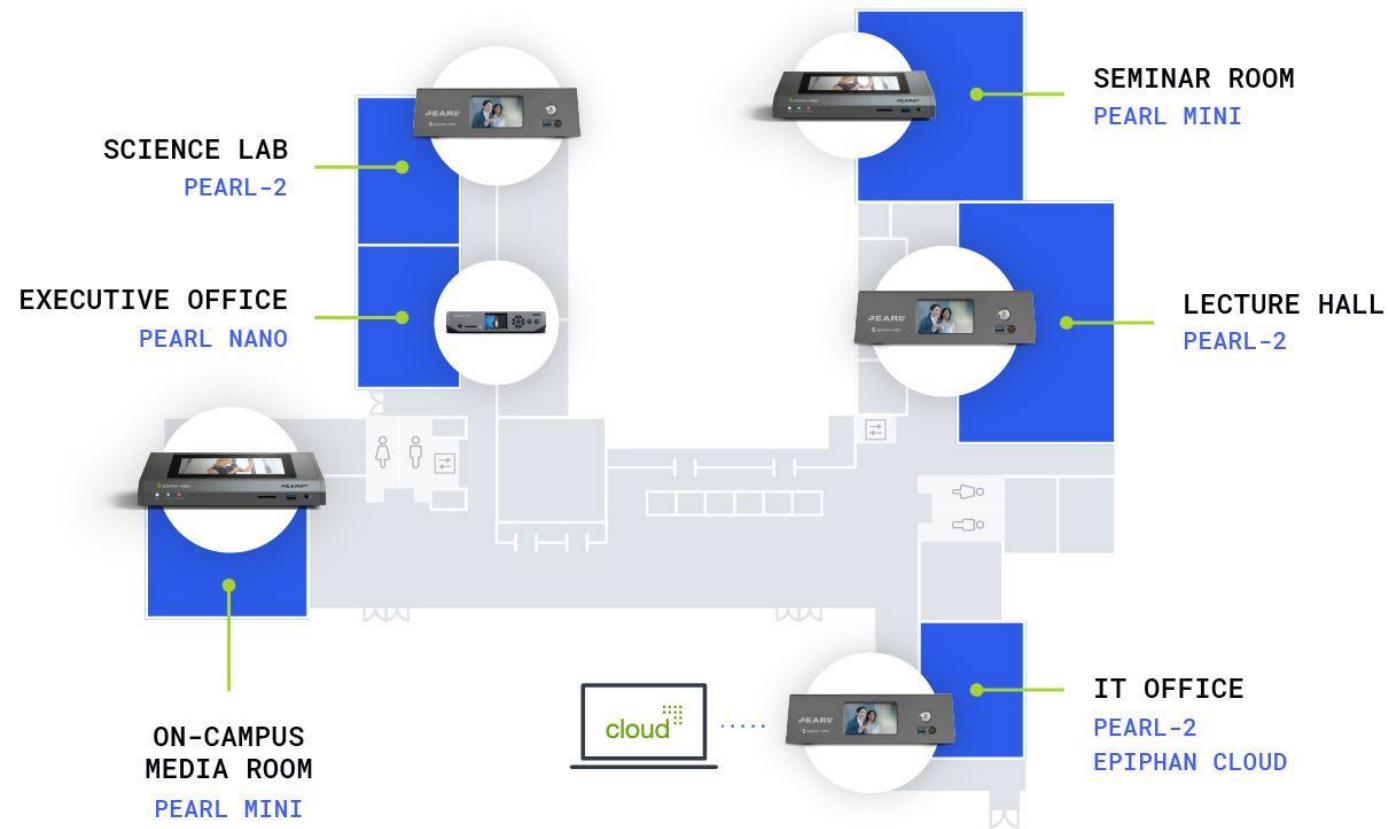


THE
UNIVERSITY
OF RHODE ISLAND

THOMAS
MORE



Solutions for education



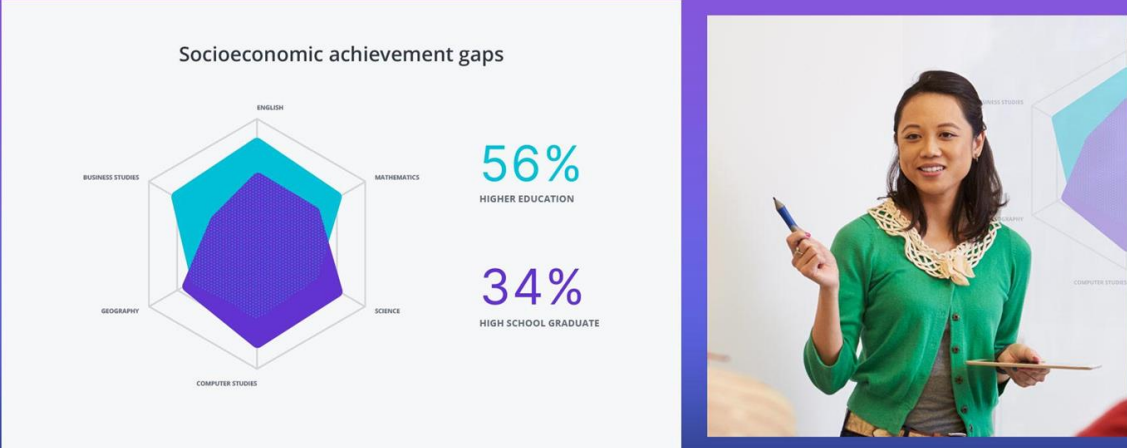
Typical classroom setup



Typical laboratory setup



Intuitive video experiences for staff



Socioeconomic achievement gaps

56%
HIGHER EDUCATION

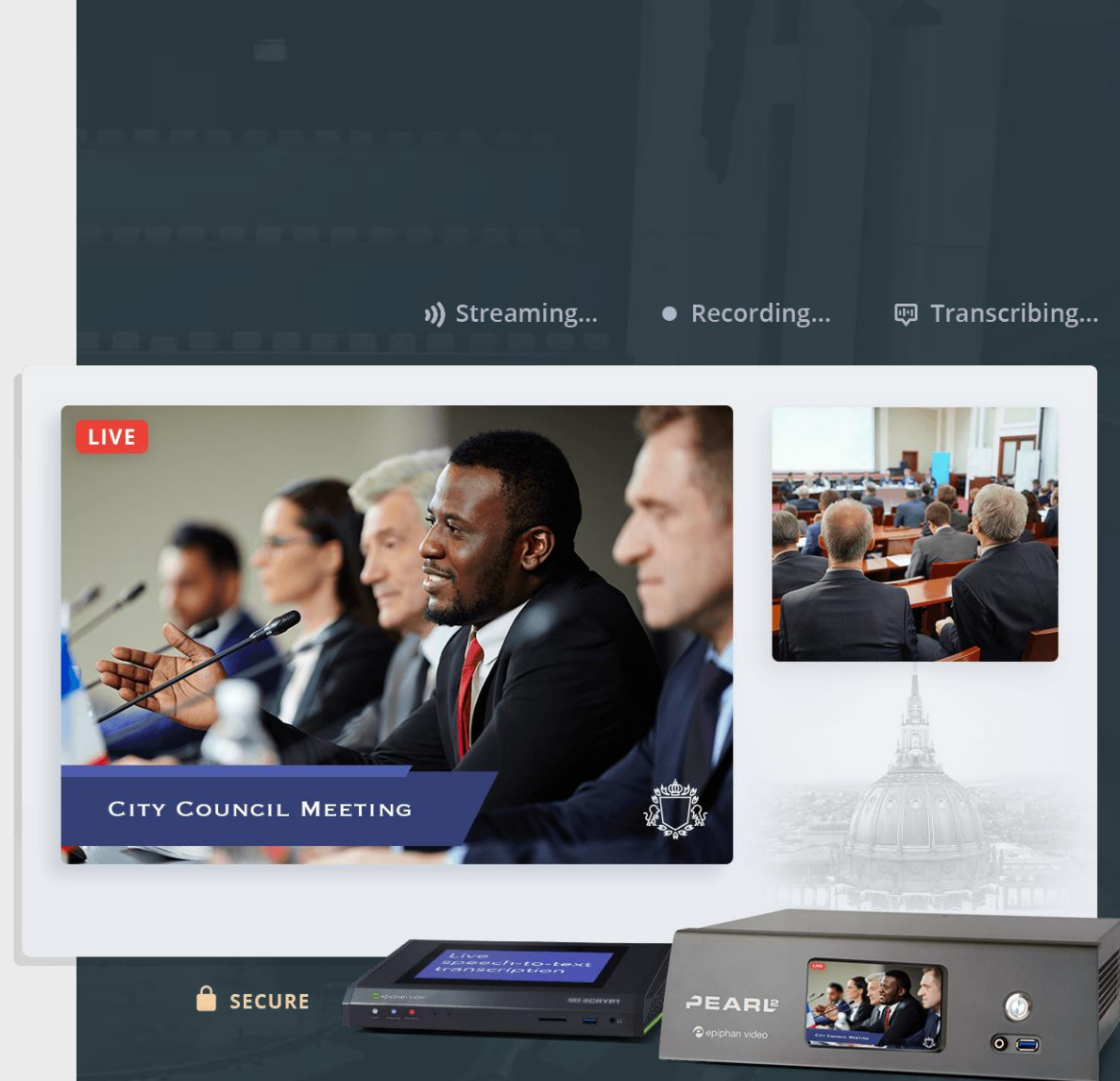
34%
HIGH SCHOOL GRADUATE

English, Mathematics, Science, Computer Studies, Geography, Business Studies

Edgewood Charter School 

- ← Automated workflows
- ← Simple controls
- ← Trusted to work every time

Government



Government applications



Council sessions



Speeches



Public hearings



Press conferences



Automatic closed captioning



Remote contribution



STATE OF HAWAII



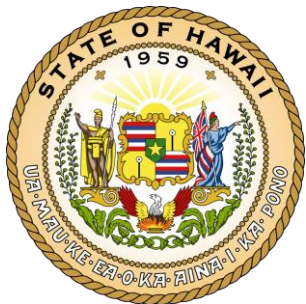
City of Las Cruces



CITY OF FOLSOM



TÄBY

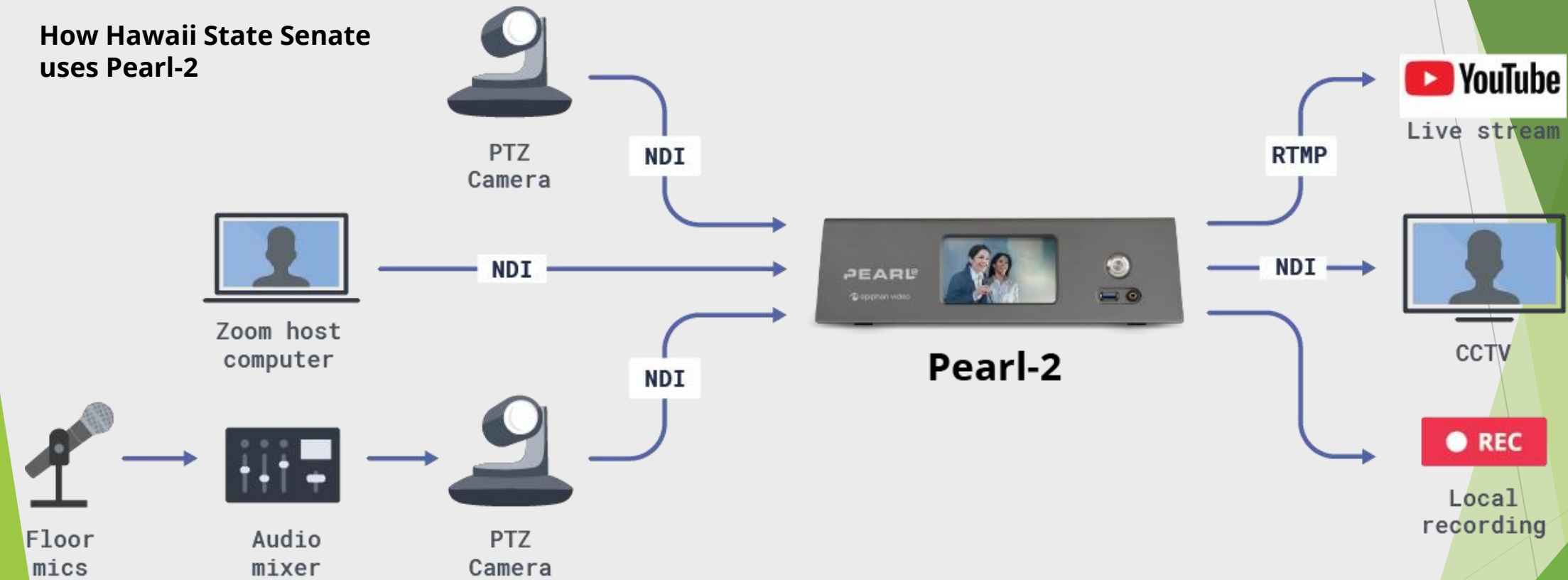


“Pearl-2 is straightforward enough that any of our users can operate it with confidence, even if they have very little technical or video experience.”

Robbie Omura, Hawaii State Senate



How Hawaii State Senate uses Pearl-2



Broadcast-quality video for your community



Hillford, Connecticut
NUTMEG CAPITAL

- ← Live stream to multiple platforms
- ← Record all footage for archiving
- ← Automated or remotely operated production

Corporate



Corporate applications



Onboarding and
training



Company town
halls



Virtual
conferences



Webinars



Executive
messages



UX and usability
testing



P&G

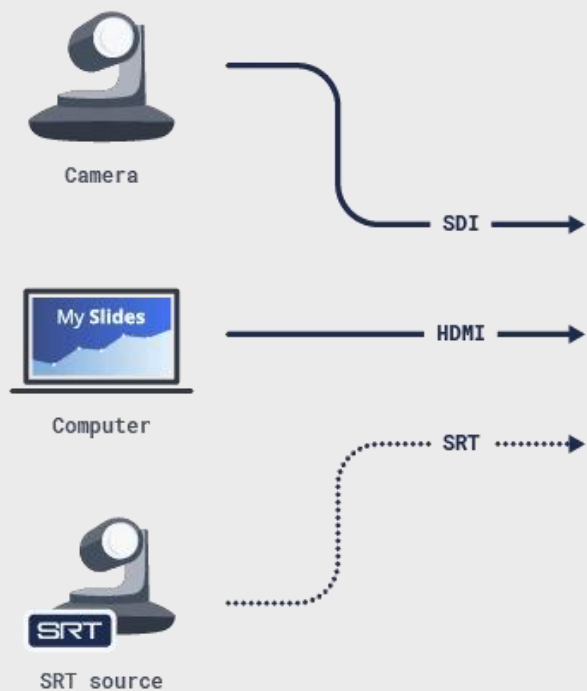
Heffel



CRESTRON

Typical video studio setup

CONNECT UP TO 6 VIDEO SOURCES



CONNECT PROFESSIONAL AUDIO



Audio mixer

↓ XLR

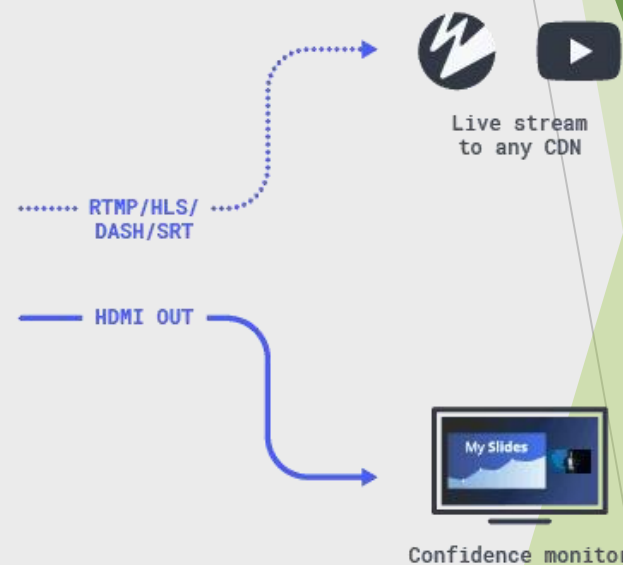


PEARL²



Record to 500 GB internal SSD

OUTPUT YOUR VIDEO





“It really has changed the game for us in how we do video in our studio here at Crestron.”

Josh Stene, Crestron Electronics



Empower everyone at your company to create video



- ← Live stream to internal or external platforms
- ← Create an easy-to-use video studio
- ← Automatic transfer of all footage to servers

House of worship

LIVE



Worship applications



Weekly service



Special events



Weddings



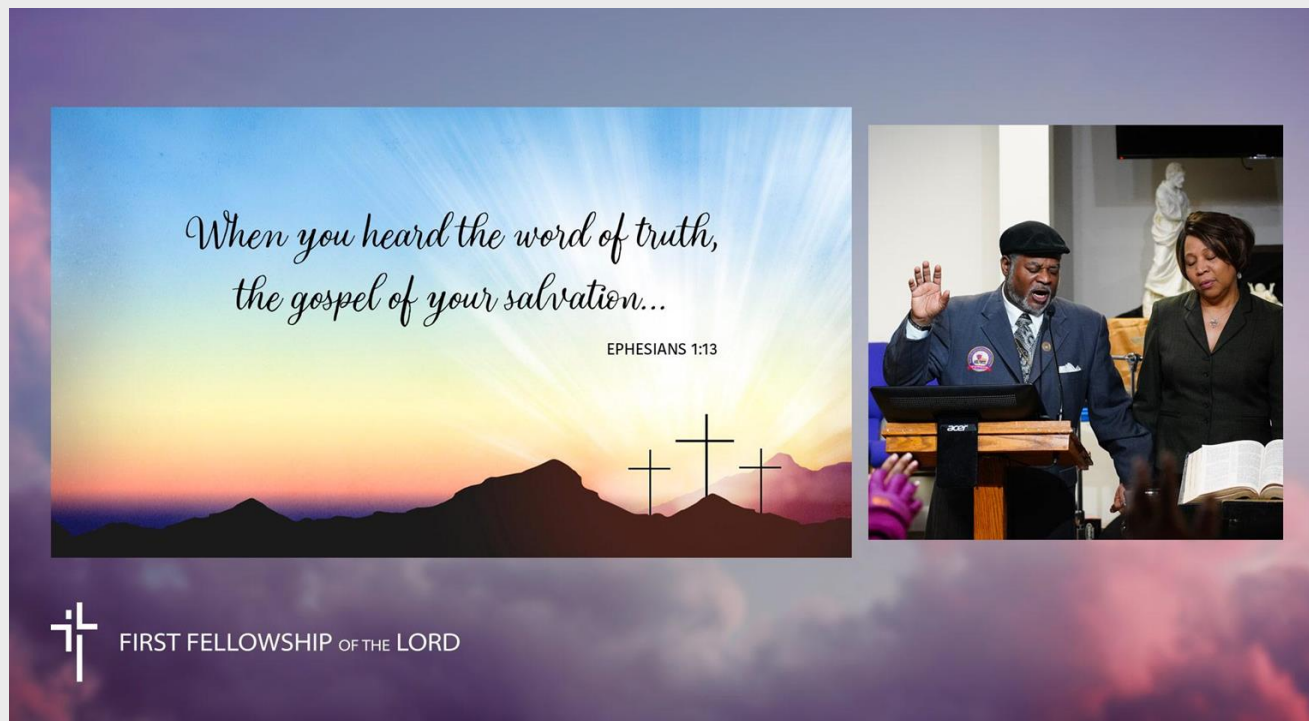
Funerals



Overflow rooms



Connect with your congregation



- ← Live stream to any social platform or website
- ← Simple to operate for volunteers

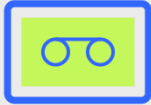
Legal



Legal applications



Evidence
presentation



Video
recordkeeping



Overflow and
press rooms



Video conferencing
support



Courtroom
broadcasting

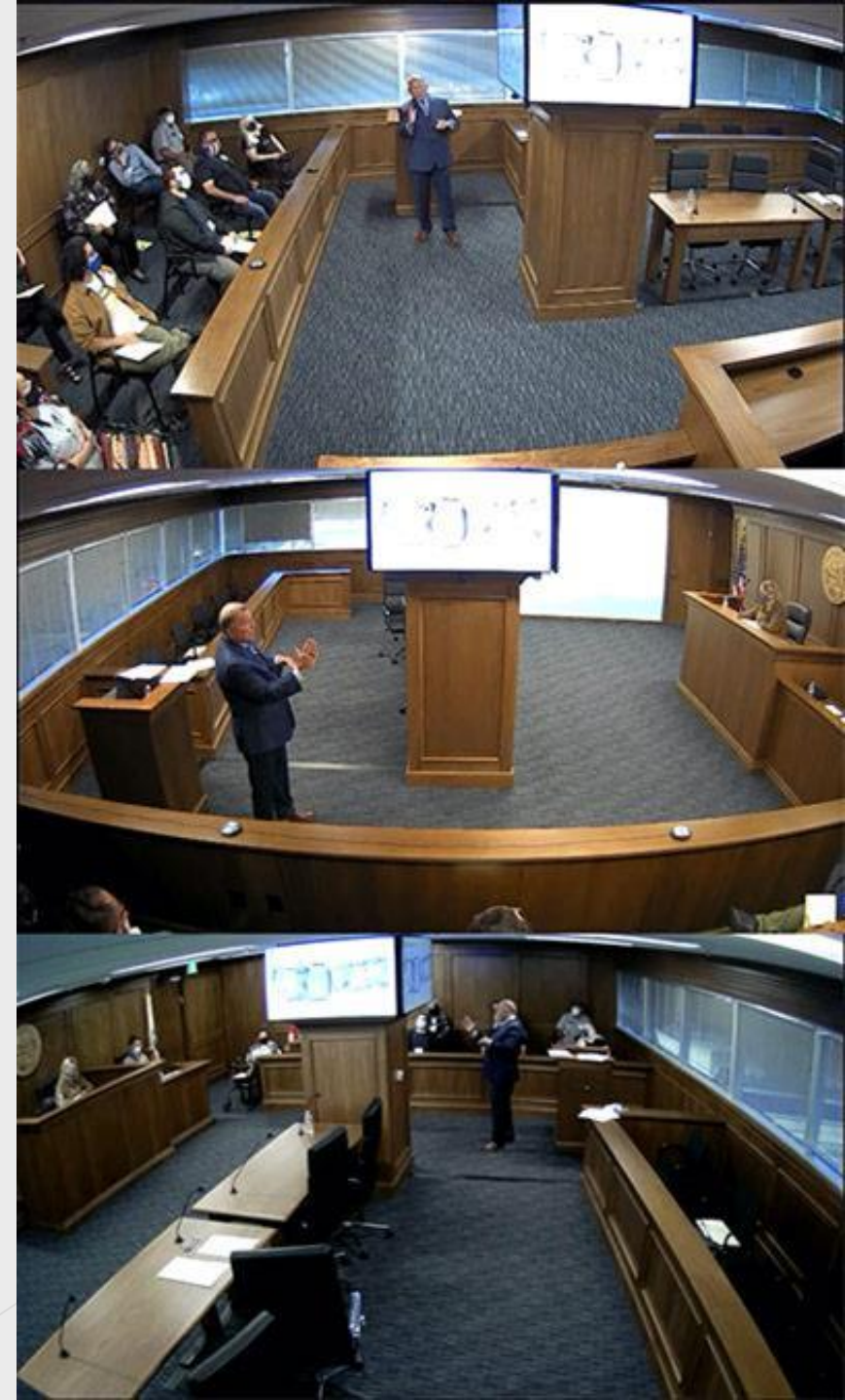


Remote
depositions

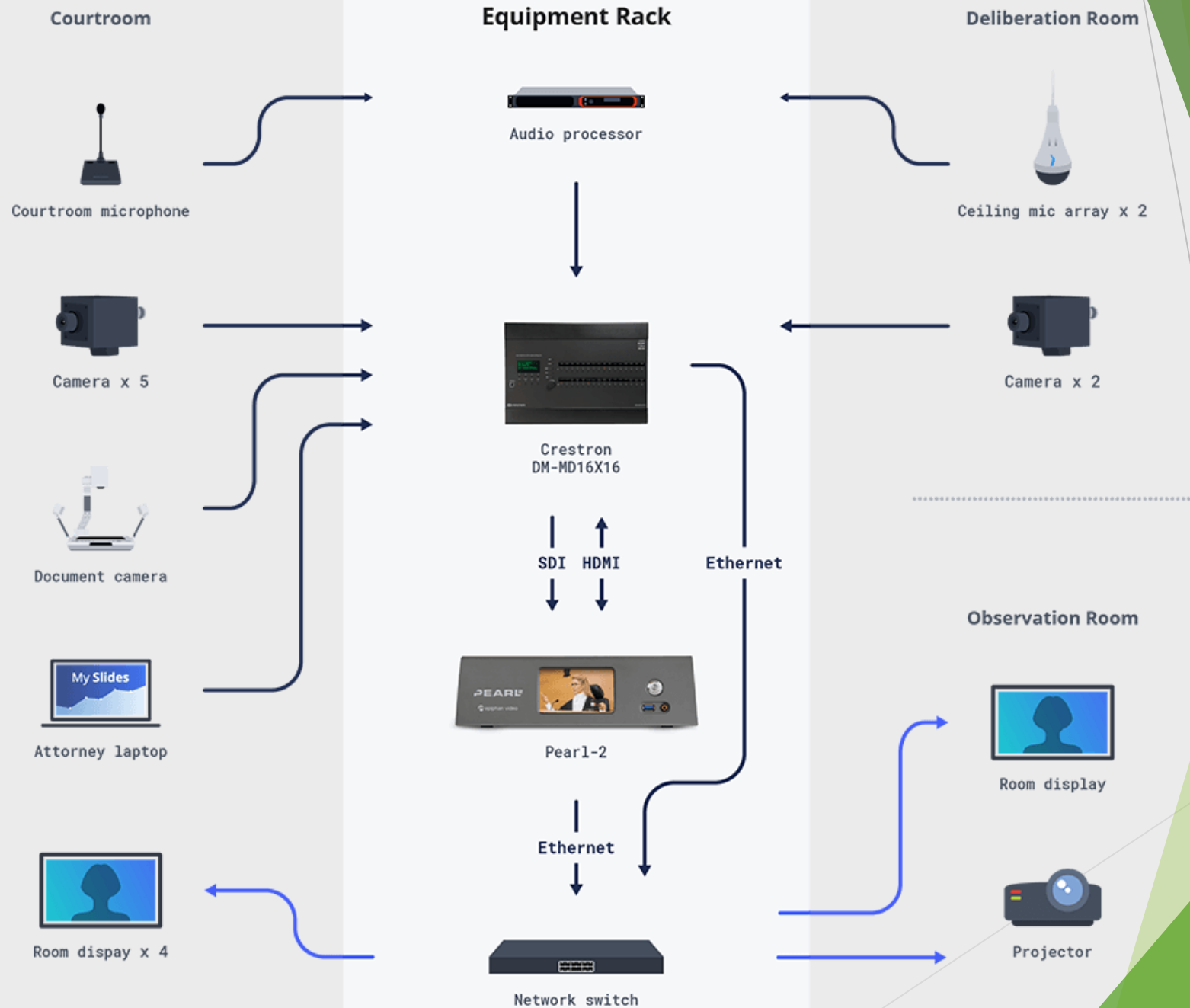


“Participants not only see the live feed during the trial but can also go back and watch all the videos.”

Jesse Vaughan, Verdict Advantage

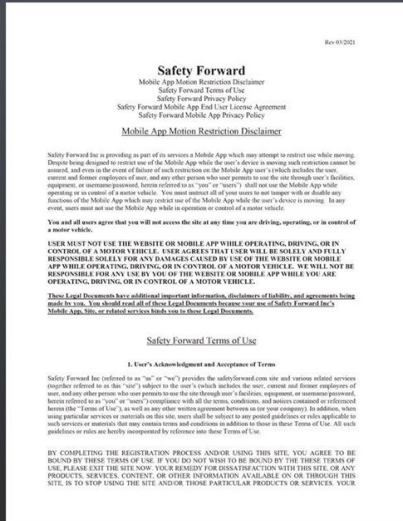


How Verdict Advantage uses Pearl-2



Multi-site video production systems

- ← Record every meeting securely
- ← Automatic upload of footage to centralized location
- ← Live stream to any platform



Epiphan products and solutions

Intuitive controls

- ← Simple to use for everyone
- ← Automated, hands-free workflows
- ← Remotely managed



Extremely reliable

Designed for continuous use in professional environments

- Advanced networking and security
- Purpose-built appliances
- 24/7 monitoring and alerting



Open ecosystem

With no vendor lock-ins or proprietary protocols, Epiphan devices can be designed into any solution.

- ← Integrations with popular Content Management Systems
- ← API for custom developments
- ← Support for a wide range of streaming protocols



SRT

NDI[®]



Exceptional value

Our reputation for building long-lasting, flexible solutions that improve over time has led to a loyal customer base.

- Repeat buyers are the norm
- Strong online community
- Expanding market share



Outstanding customer support

- ← Friendly, high-performance customer success team
- ← Extended warranty program
- ← Virtual demo booking system with support engineers
- ← Strong online community with Epiphan personalities



Epiphan Pearl lineup

Flexible, high-performance
hardware for video production



Pearl Nano



Pearl Nano

The perfect-fit streamer and recorder

- ← Video recorder, streamer, splitter, and scaler
- ← Two video inputs + networked inputs
- ← 2.2 inch front screen + buttons
- ← Two XLR line-level audio inputs
- ← SD card slot and SSD expansion bay



Record to SD card or SSD



12V DC power

USB 3.0

HDMI out

PoE+ Ethernet

SDI in

HDMI pass-through

HDMI in

RCA audio in

XLR

Cable lock

Pearl Nano: Small but mighty

- ← Single-channel production
- ← Stream to multiple destinations
- ← Record to SD card or SSD

*No switching



Pearl Mini



Pearl Mini

Simplified live video production

- ← Full HD video switcher, recorder, streamer, splitter, and scaler
- ← Three video inputs + networked inputs
- ← 7 inch touch screen for confidence monitoring and control
- ← Two XLR/TRS mic-level audio inputs with phantom power
- ← SD card slot for storage





Lock

Power
button

12V DC
power

USB 3.0

HDMI out

Ethernet

SDI in

HDMI in

RCA
audio in

3.5 mm
audio in

XLR/TRS
combo
jacks

Phantom
power light

Pearl Mini: Live video, simplified

- ← Create dynamic layouts and switch
- ← Stream to multiple destinations
- ← Record to SD card





Pearl-2

The ultimate all-in-one video production system

- ← 4K video switcher, recorder, streamer, splitter, and scaler
- ← Six video inputs + networked inputs
- ← 4 inch touch screen
- ← Four XLR line-level audio inputs
- ← 500 GB internal drive
- ← NDI support and chroma keying



Optional add-on packs

4K feature add-on

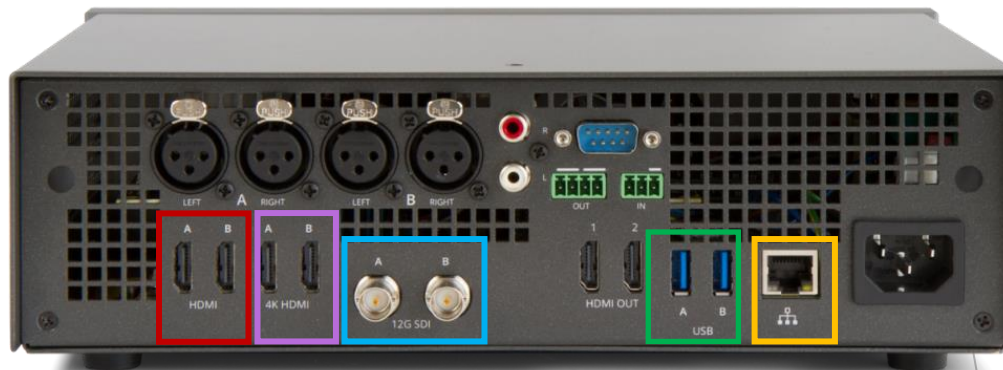
- Adds the following capabilities to Pearl-2:
 - 2 × 4K HDMI inputs
 - Base Pearl-2 (without add-on): 4K HDMI ports will only work with resolutions up to HD (1080p)
 - 2 × 4K SDI inputs (12G SDI and 6G SDI)
 - Base Pearl-2 (without add-on): SDI ports support 3G SDI
 - 4 x 4K scaling in hardware (4K down to Full HD)
 - 1 x 4K* encoding at 30 fps
 - 2 x 4K output (HDMI)

* The 4K source can also be a network source (i.e. SRT, RTSP, or NDI)



- NDI™

- Inputs from SRT, NDI and NDI HX, unicast and multicast up to 4K30fps
- NDI output in unicast
- RTSP input/output in H.264 unicast
- SRT, HLS (push), and MPEG-DASH (push) outputs in H.264 multicast



Audio input details

2 stereo analog audio channels

- XLR inputs

- As 2 Balanced audio inputs
- Or 4 Mono inputs
- Pro line level (+4 dBu)
- Adjustable input gain control 0-30 dB
- Maximum input +24 dBu (20 dB of headroom)
- Adjustable audio delay (-300 to 300 ms)

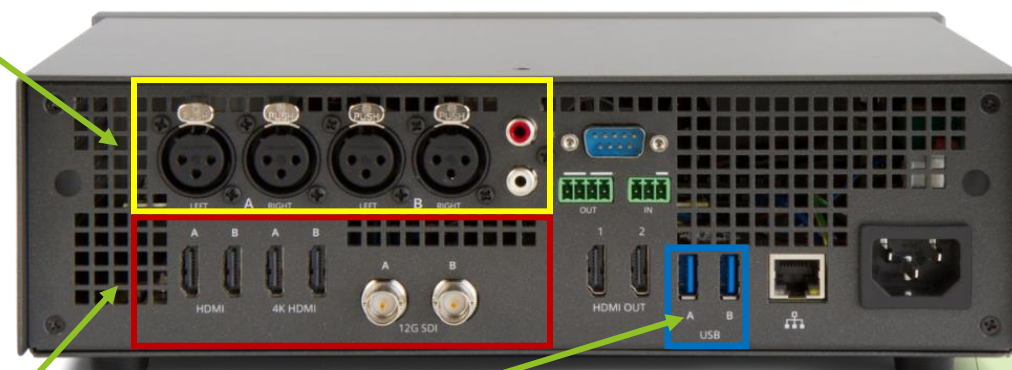
- RCA inputs

- Channel B only
- Unbalanced audio input
- Consumer line level (-10 dBV)
- Adjustable input gain control 0-30 dB
- Maximum input +10 dBu (18 dB of headroom)

8 stereo digital audio channels

- 2 × SDI, 4 × HDMI and 2 USB inputs
- Independent from analog audio channels

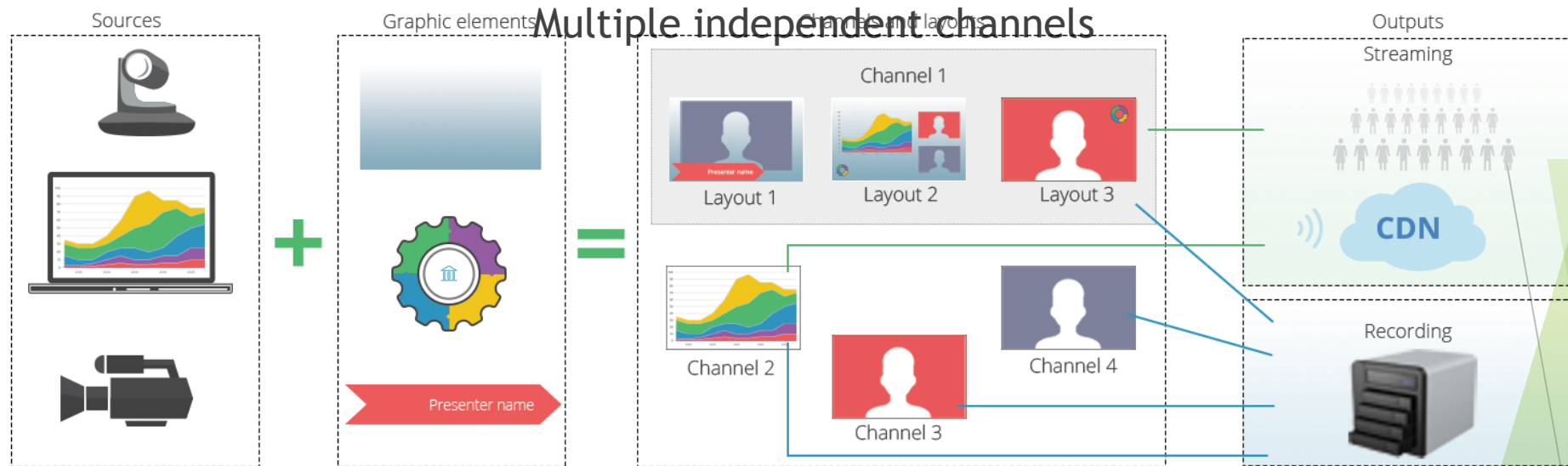
Network audio sources from SRT, RTSP, and NDI



Connect directly to line level audio with no external attenuation or amplification*.

* Microphones come in below line level, therefore still require external amplification

Pearl-2 quick facts



- Channels are a unique combination of sources, images, text
 - Each channel can have its own set of layouts
- Choose whether to stream or record each channel, independent of the others
- Use the touch screen to scroll through channels or observe all at once

Pearl Family additional detail

Specifications

- ← Captures video up to **1920x1080** for Mini, **3840x2160** for Pearl-2
- ← Removable **SD card** storage for Mini, internal **512 GB SSD** for Pearl-2
- ← Stream to individuals, multicasting, or to a broad audience via **CDN**
- ← **RS-232** and **HTTP APIs** for integration into larger systems
- ← Crestron driver for control integration

- ← Video encoding with

H.264

- ← Supported audio codecs

MP3

AAC

PCM

Custom layout designer



Combine, crop, and scale up to 2 HD video sources. Add overlay images, text, and more.

Front screen, or web UI control



Switching and monitoring on the front-screen, or with the easy to use web UI



Web UI with Epiphan Live

Epiphan Live control interface

Simple, intuitive and mobile-friendly, Epiphan Live helps users control their live production with ease.

- Video/audio source, channel and system information confidence monitoring
- Control channel/source streaming and recording
- Perform live switching between custom layouts
- Enable/disable video output

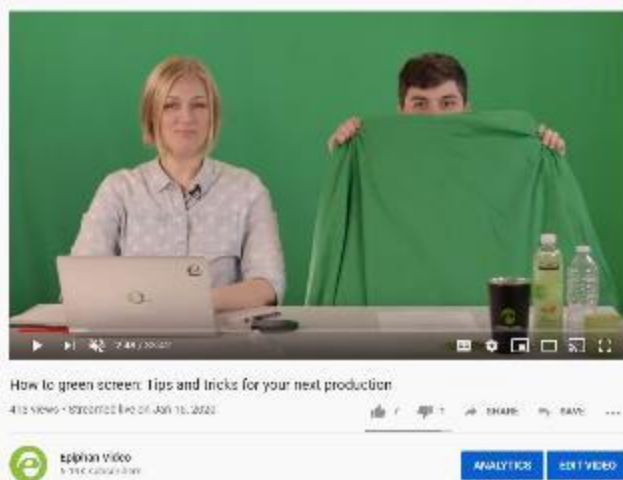


Chroma

Chroma keying, is a visual effects/post-production technique for compositing two images or video streams together based on colour hues/chroma range, you may know this by a common use with a Green Screen.

- Pearl-2 can support Chroma Key
- Pearl Mini cannot

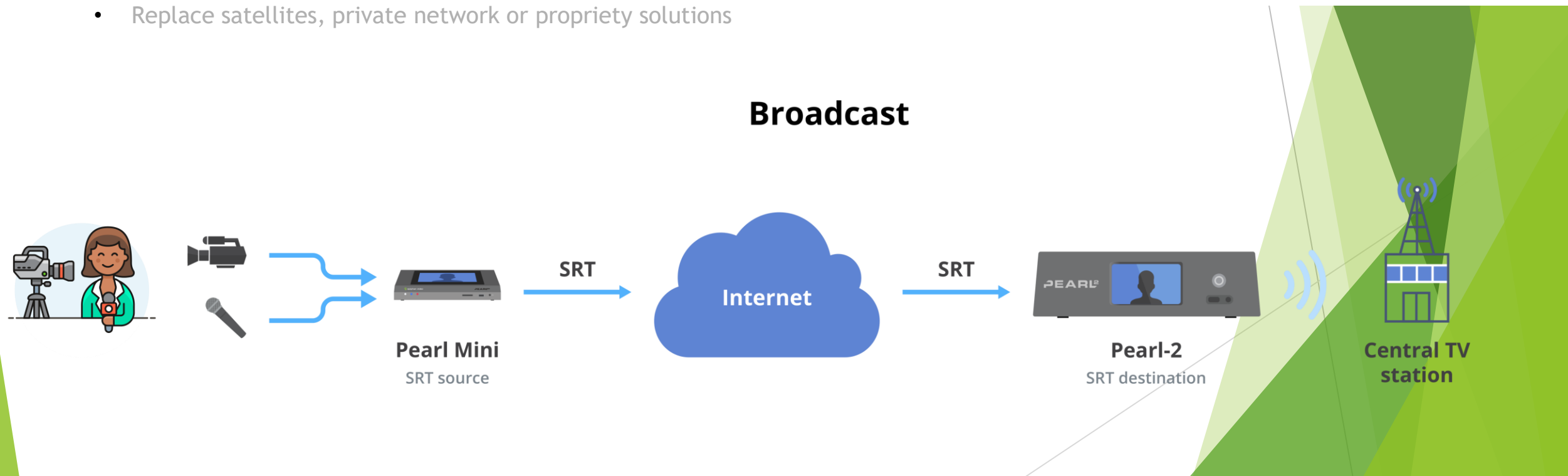
This can give Pearl-2 a very flexible tool for dressing up our content with virtual sets or adding external dynamic content.



SRT Use Cases

Live Broadcast Interview

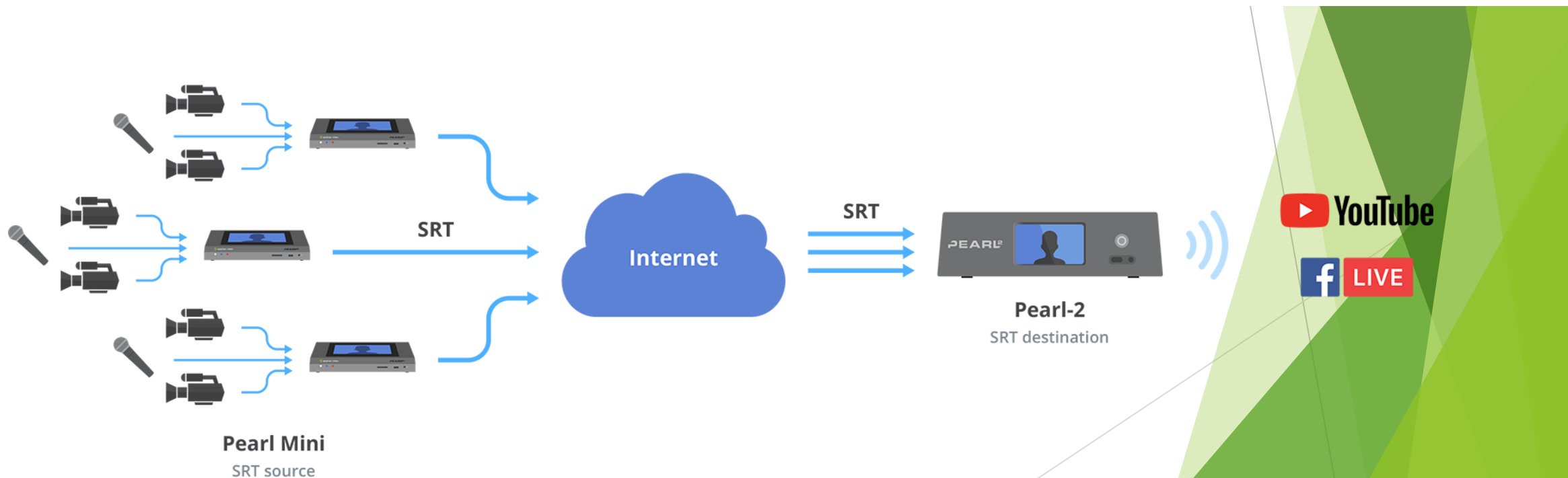
- Broadcasters requiring low-latency content acquisition
- Low latency live video from remote locations to broadcast centres
- Replace satellites, private network or propriety solutions



SRT Use Cases

Multiple SRT sources

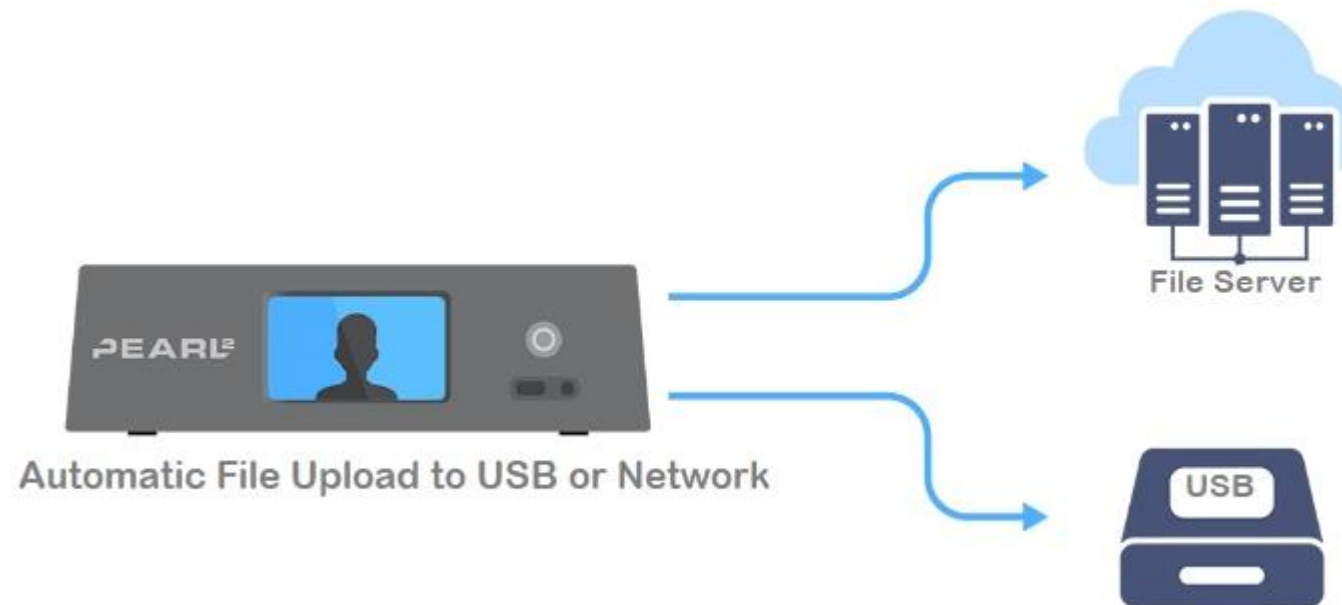
Pearl as an SRT source (encoder) and as an SRT destination (decoder)



Automatic file upload

Allows for automated transfer of finished files to:

- Network Storage
 - FTP/SFTP
 - RSync
 - CIFS
 - AWS S3
 - WebDAV
 - SCP
- USB Storage
 - FAT32
 - NTFS
 - EXT3/4



What are configuration presets?

Configuration presets

Default Apply
System, Network, Inputs, EDID, Channels, Automatic File Upload, Content Management System, AV Studio, Touch screen, Output ports

Demo Apply Download Delete
Inputs, EDID, Channels, Automatic File Upload, Content Management System, AV Studio, Touch screen, Output ports

Create a configuration preset

Name:

Sections

- ☐ System
- ☐ Network
- ☒ Inputs
- ☒ EDID
- ☒ Channels
- ☒ Automatic File Upload
- ☒ Content Management System
- ☒ AV Studio
- ☒ Touch screen
- ☒ Output ports

Save

Import configuration preset

Import Configuration Preset Choose File No file chosen

Import

< Back **Configuration Presets** Home

Factory default Auto File Upload System Channels Network Sources EDID Output ports Touch screen

conference network Network Auto File Upload

internal network Network Auto File Upload

Page 1 of 2 >

Live Streaming

Stream via simple CDN integration

Content Delivery Networks
via RTMP/RTMPS



Key Markets

Live Production



Supports A/V companies providing event services to conferences, corporations, venues

Education



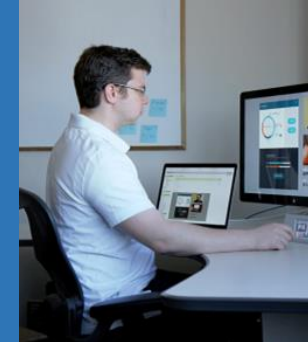
Lecture capture and global streaming, library archive and access, streaming and recording of campus events

Corporate



Corporate seminars, training, product demonstrations, conferences & town halls, outreach and social networks

UX Labs



Record and live stream user experience and focus group trials enabling remote participation of developers

House of Worship



Streaming ceremonies and services of churches and other religious groups

Simplified lecture capture



Channel 1



Streaming - 1080p 30 fps, 8 Mbps
Recording - 1080p 30 fps, 8 Mbps

Channel 2



Streaming - 1080p 30 fps, 8 Mbps
Recording - 1080p 30 fps, 8 Mbps

- Individual Recording and streaming of camera and slides
- Record for VoD while Streaming to overflow rooms
- One touch operation
- Crestron driver for easy control integration
- CMS Integration with Kaltura and Panopto (Opencast*)



* Currently in development

Live Event workhorse



- Direct connection of cameras, and microphones
- Confidence monitoring of video and audio
- Live mixing and switching via touchscreen or tablet
- Live streaming to multiple platforms simultaneously
- Recording to removable media



Program with live switching



- **Streaming** - 1080p 30 fps, 4 Mbps
- **Recording** - 1080p 30 fps, 4 Mbps

ISO



- **Recording**
1080p 30 fps, 8 Mbps

Corporate Video



- One touch operation
- Present live in one room and stream locally and/or to CDN for global reach
- Custom layout builder for branded presentations
- Recording of VoD for online learning library



Healthcare

Remote consultation/diagnosis



- Capture multiple video inputs
 - Medical equipment output
 - Camera showing procedure
- Share live video
 - Remote diagnosis / consultation
 - Training
 - Video source cropping for precision display



XLR
audio in

HDMI in

12G-SDI in

RCA
audio in

HDMI
out

USB 3.0

Ethernet

Power plug

RS-232 port

Pearl-2: Video production workhorse

- ← Create up to six 1080p channels or one 4K channel to record, stream, and switch between layouts
- ← Record ISOs and program
- ← Stream to multiple destinations



A Pearl for everyone on your list

PEARL^{NANO}



**Perfect-fit
streamer and recorder**

1 channel,
HD, PoE+

PEARL^{MINI}



**Simplified, all-in-one
video appliance**

3 channels,
HD, large touch screen

PEARL²



**Powerful, full-featured
production mixer**

6 channels,
4K, NDI, chromakey

A Pearl for every requirement

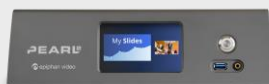
PEARL NANO



PEARL MINI



PEARL 2



Video inputs	Audio inputs	Networked inputs	Video outputs	Resolution support	Chroma key	Power	Storage
1 × HDMI 1 × 12G-SDI	2 × XLR 1 × USB 1 × RCA (stereo pair)	SRT RTSP	1 × HDMI 1 × HDMI (pass-through)	Up to 4K with paid upgrade (coming soon)	No	PoE+ or DC	SD card (user supplied) SATA M.2 SSD (user supplied)
2 × HDMI 1 × 3G-SDI 2 × USB	2 × XLR/TRS 1 × 3.5mm 1 × RCA (stereo pair)	SRT RTSP	1 × HDMI	Up to 1080p (Full HD)	No	DC	SD card (user supplied)
2 × 4K HDMI 2 × HDMI 2 × 12G-SDI 2 × USB	4 × XLR 1 × RCA (stereo pair)	SRT NDI RTSP	2 × HDMI	Up to 4K with paid upgrade	Yes	DC	512 GB SSD



Value Added Distributor

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