Web Streamer Encoder

Stream your machine vision cameras to the web

GigE Vision

USB3

CoaXPress

Camera Link

Video

RTSP
HLS

Wireless

Video transfer
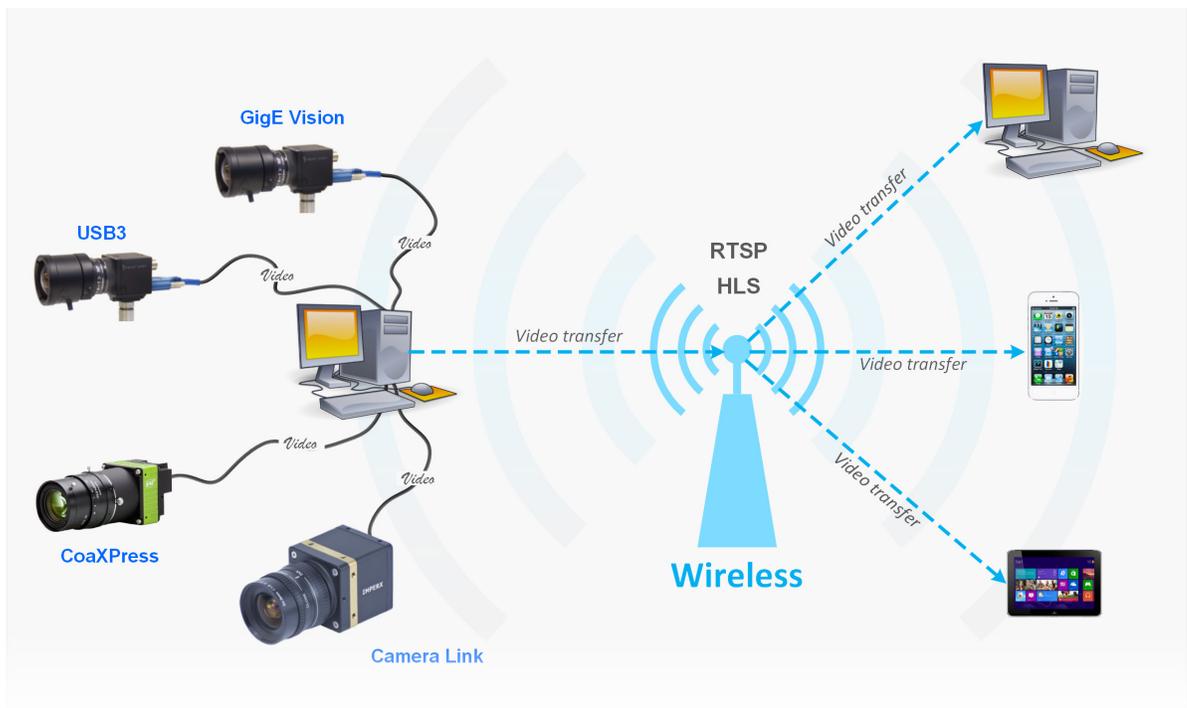
Use your own PC/Computer

- Compress multiple machine vision compliant cameras.
- Compatible with GigE Vision, 10 GigE, USB3.0, Camera Link and CoaXPress cameras.
- H.264 and HEVC encoding for web playback.

Streaming details:

- Stream up to UHD resolution from more than one camera.

- Multiple Cameras

- Accelerated H.264 and HEVC compression using CPU or GPU:
  - *Intel QuickSync GPU*
  - *nVidia, AMD GPU*

- Resample image size or frame rate to reduce bandwidth and bit rate.
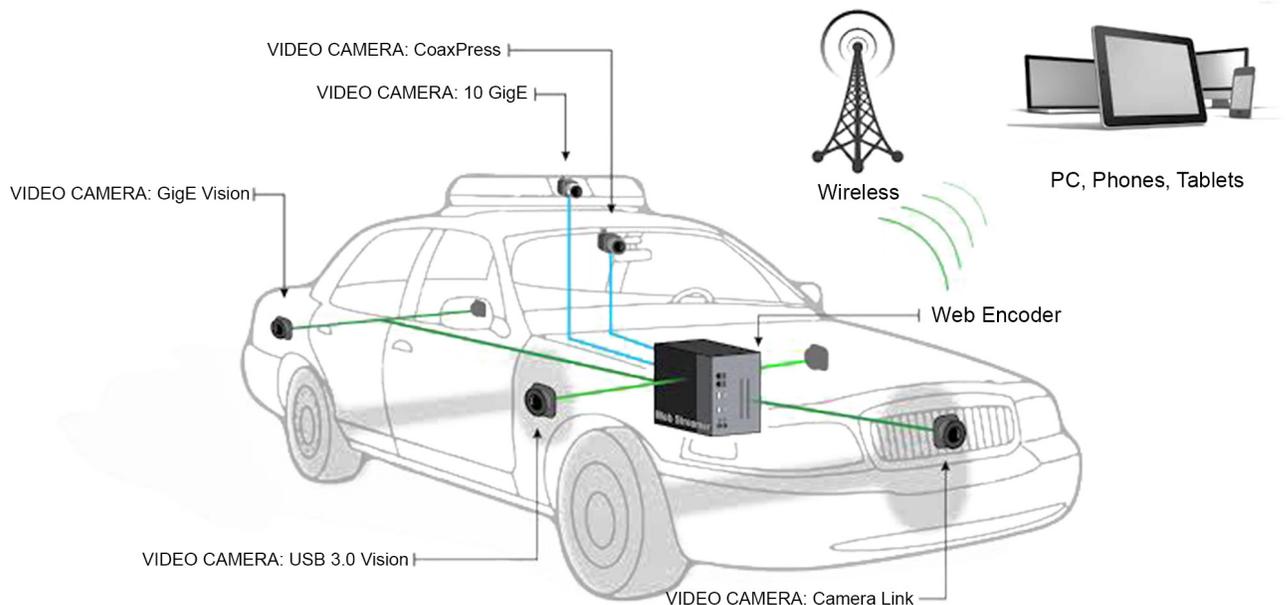
View using any RTSP/HLS viewer:

- View directly in your iOS or Android device browser.

- Use VLC player on Desktop.

- Unbuffered view using NorPix MulticastViewer or StreamPix.

NORPIX

Web Streamer Encoder

Functionality

Directly compatible with GigE Vision, 10 GigE, Camera Link, USB3 and CoaXPress cameras.
Video compression using H.264 or HEVC through wireless or wired connection.
Web based configuration coming soon.
Compatible with StreamPix for recording to disk in uncompressed format.
Store video from up to 12 cameras.
Use your own hardware. Compatible with any Intel core processor.
Record and Stream simultaneously using over 200 different machine vision cameras. Runs on native API's from all major camera OEM's.
Available as a StreamPix 7 Module or Independent Standalone Application.
Up to 12 GigE ports or 12 USB3 inputs.

VIDEO CAMERA: CoaxPress

VIDEO CAMERA: 10 GigE

VIDEO CAMERA: GigE Vision

Wireless

PC, Phones, Tablets

Web Encoder

VIDEO CAMERA: USB 3.0 Vision

VIDEO CAMERA: Camera Link
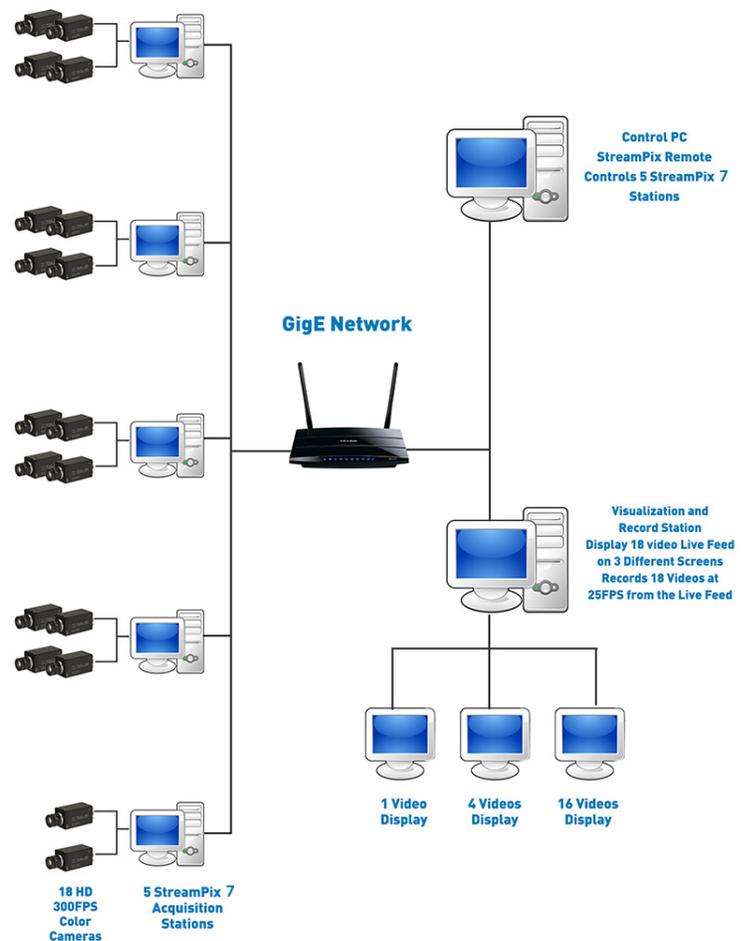
Application Note:

Underwater High-speed Web Streaming and multi-camera recording

NorPix has developed a system for a military client providing underwater high-speed web streaming HD capture at 338 frames per second from 18 cameras simultaneously along with live streaming to a remote recording station.

The solution uses StreamPix Remote to manage 18 Emergent HS-2000 cameras in waterproof enclosures. The setup uses 5 PCs for uncompressed recording from up to 4 cameras each, 2 PCs for compressed recording, and one PC for remote control and real-time display. All camera-to-host connections are by 30- to 150-meter fiber optic cables, each on a 10GigE network.

Details of the system include:

- Each of the front line computers records a total of 2.6 GB data/second from four HD 1920×1080, 338 fps cameras in uncompressed RAW8 format.

- Every 24th frame is decimated to half resolution (960 x 540) and real-time H.264 compressed so that a live stream is delivered to 2 secondary remote recording stations at about 50 megabits/second. The H.264 compression is GPU accelerated.

- The remote PC controls recording and playback, as well as gain, exposure, and white balance for each camera. It also allows control of focus and iris.

- Dual large monitors provide a tiled display of all cameras plus a large display of a selected camera directly on the 2 secondary recording stations.

GigE Network

Control PC
StreamPix Remote
Controls 5 StreamPix 7
Stations

Visualization and Record Station
Display 18 video Live Feed on 3 Different Screens
Records 18 Videos at 25FPS from the Live Feed

1 Video Display **4 Videos Display** **16 Videos Display**

18 HD 300FPS Color Cameras **5 StreamPix 7 Acquisition Stations**

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Customer application from Dage-MTI

HD-Stream: Viewing Live Streams at a Central Lab

Dear Colleagues,

We recently shared the exciting introduction of HD-Stream, our new live streaming solution for clinical, medical and industrial applications. In an effort to provide you with helpful tools, knowledge and information on the benefits of using HD-Stream, we provide "news you can use" with application notes.

Imagine this scenario: A hospital has a central lab, as well as a number of remote satellite labs. The hospital can simply include an HD-Stream box at each of its satellite locations to stream live and secure images directly to the central lab for immediate collaboration on their frozen sections, FNAs, gram stains, cytopathology samples and more.

Because each HD-Stream box has a unique IP address, a remote viewer (the central lab) can see the incoming live streams from the satellite labs simultaneously. This is accomplished by opening a separate VLC viewing window for each incoming stream. Multiple streams can even be viewed simultaneously on a single monitor by resizing the viewing windows or by sending each stream to its own monitor.

Live consultation has never been easier!

HD-Stream enables a central lab to view multiple streams from satellite labs simultaneously on a single monitor or multiple monitors.

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