

# Web Streamer Encoder

*Stream your machine vision cameras to the web*



## *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 HD resolution from more than one camera.
- Accelerated H.264 and HEVC compression using either 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.



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# 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.

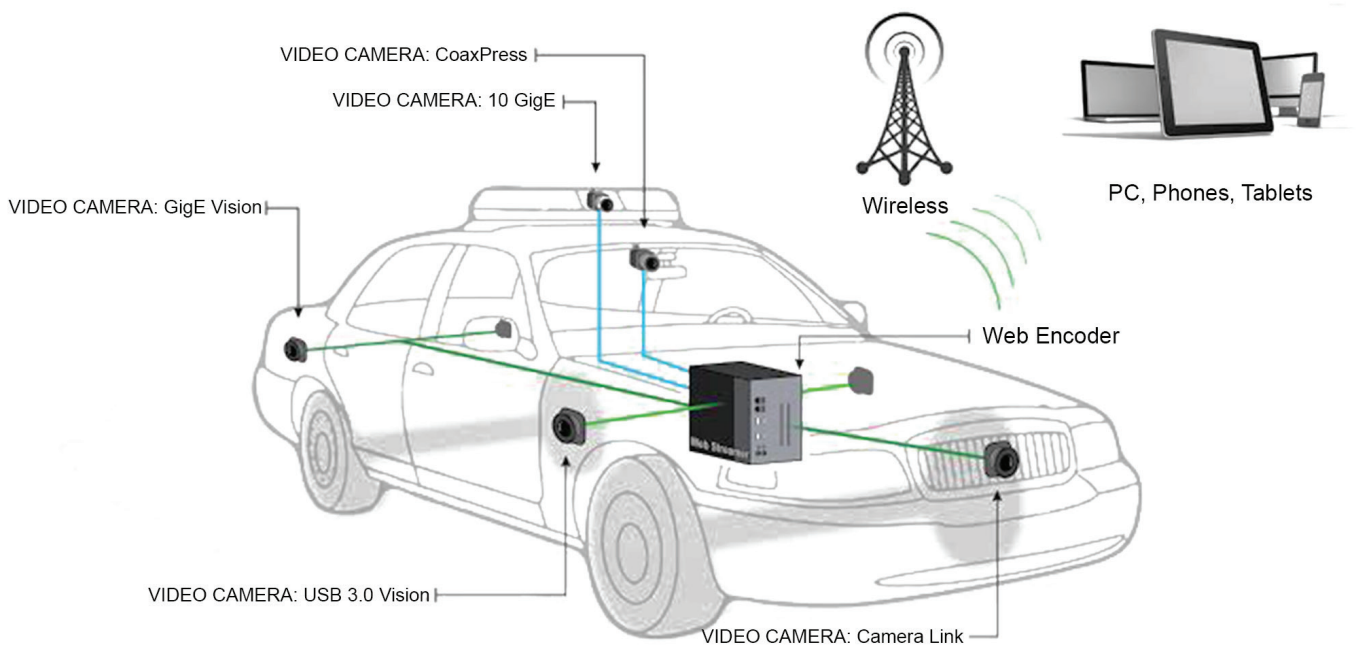
Store video from up to 12 cameras.

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.



# Application Note:

## *Underwater High-speed Web Streaming and multi-camera recording*

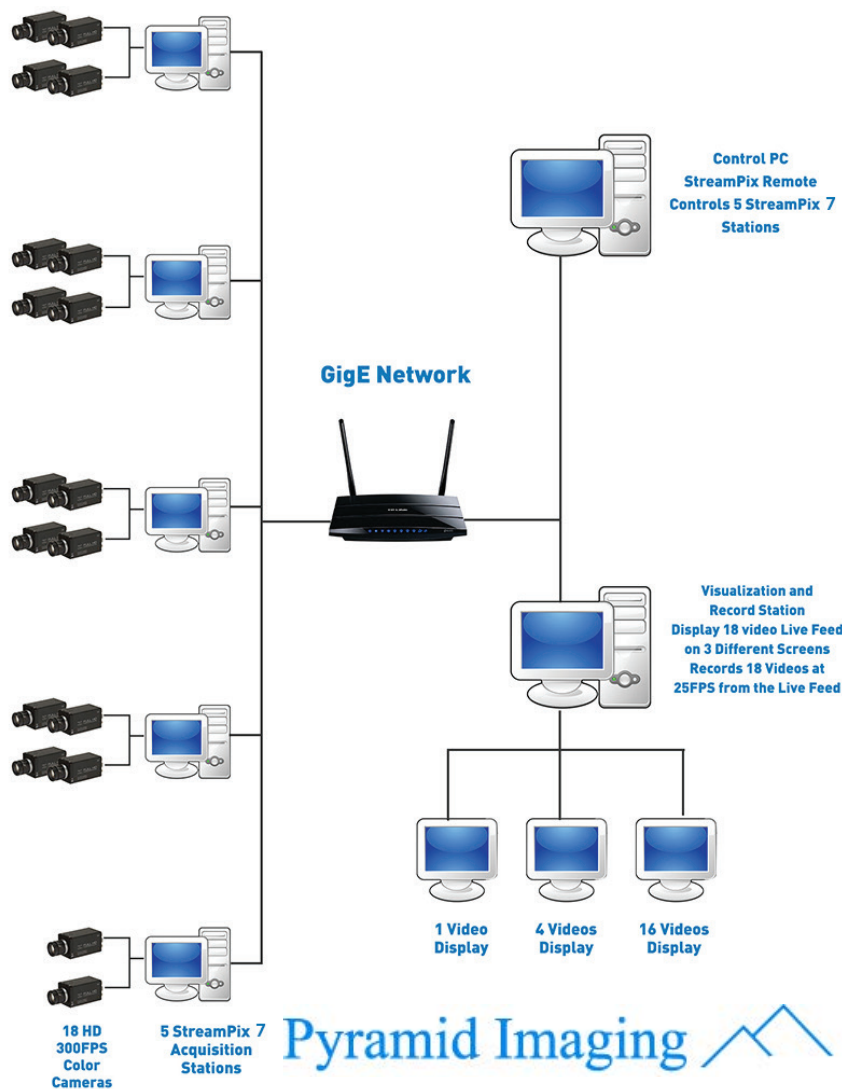
NorPix has developed a system for a military client providing underwater high-speed web streaming HD capture at 338 frames per second from 18 cameras simultaneously along with live streaming to a remote recording station.

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.

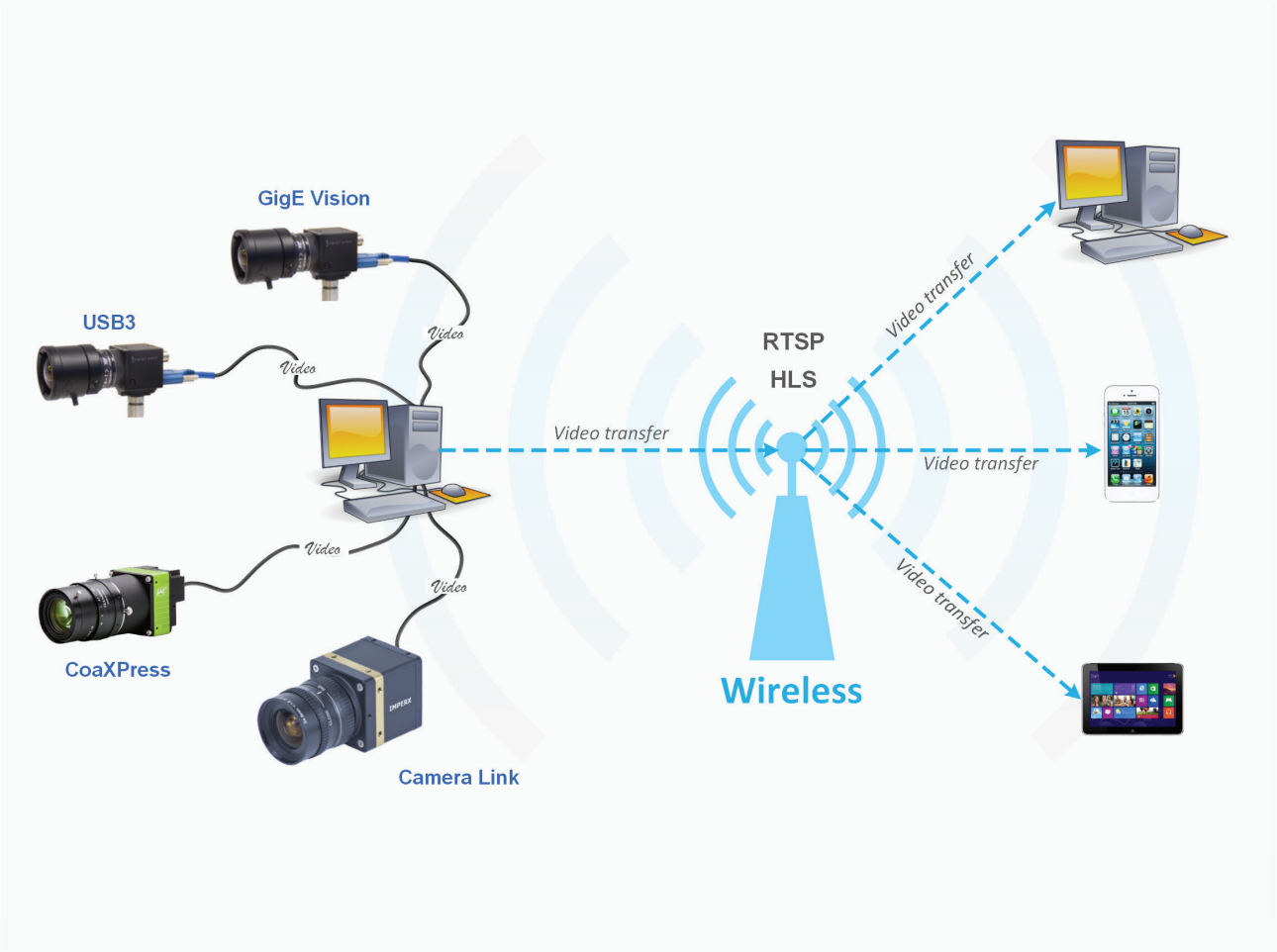
### *Details of the system include:*

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



# Stream to the Web



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