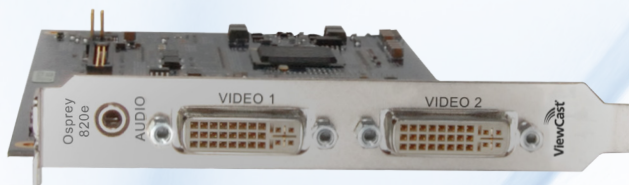# Osprey ® 820e

Video Capture Card

Two solutions in a single capture card.

The Osprey 820e continues the strong tradition of high-quality streaming performance. The latest video capture card now lets you add audio and video to a traditional graphics interface making it an ideal solution for lecture capture. This dual input card can ingest SD or HD analog video as well as VGA, HDMI and DVI.

Optimized for live streaming.
Take advantage of advanced video pre-processing features such as logo/bitmap overlay with transparency and positioning controls, de-interlacing, color space conversion and closed-caption extraction and rendering. Wide screen signaling is also standard.

Multiple streams.
The Osprey 820e also comes standard with SimulStream®. This driver enhancement provides the ability to feed multiple encoding applications at the same time.

Ideal Solutions

> Education

> Enterprise
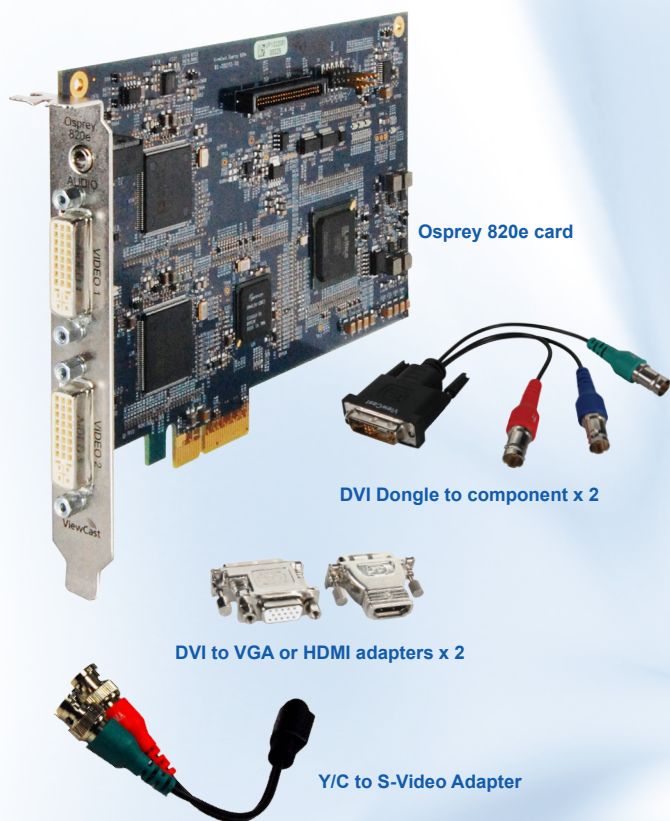
> Global OEM systems integrators

Applications

> Presentation capture
  - *Lectures*
  - *Corporate meetings*
> Webcasting
> Live streaming
> Podcasting
> Mobile TV
> Video on Demand

Key Attributes

> HDMI/DVI/VGA input

> Accepts analog SD and HD video inputs

> Automatically senses signal types

> PCIe host interface

> SimulStream option enables:
  - *Completely independent settings for sizing, scaling and bit rate speeds, plus logo overlays with dynamic positioning*
  - *A multitude of simultaneous video format outputs*

> Professional features, such as loss of video detection, color space conversion, automatic telecine detection and processing, and automatic optimization for changing motion content

> Drivers available for Microsoft® Windows® and Linux operating systems

Delivering Video Whenever, Wherever

ViewCast®

OSPREY® 820e
Video Capture Card

Osprey 820e card

DVI Dongle to component x 2

DVI to VGA or HDMI adapters x 2

Y/C to S-Video Adapter

Supported Video Modes

1920 x 1080/60/p	1280 x 720/60
1920 x 1080/50/p	1280 x 720/59.94
1920 x 1080/60/i	1280 x 720/50
1920 x 1080/59.94/i	720 x 480/60/p
1920 x 1080/50/i	720 x 480/30/i
1920 x 1080/30/p	720 x 480/29.97/i
1920 x 1080/29.97/p	720 x 576/25/i
1920 x 1080/25/p	720 x 576/50/p
1920 x 1080/24/p	720 x 576/25/p
1920 x 1080/23.98/p	

HDCP not supported.

Supported Graphics Modes *(Optimized for 60 fps)*

HD 1080 1920 x 1080	WXGA 1366 x 768
UXGA 1600 x 1200	WSVGA 1280 x 768
WSXGA+ 1680 x 1050	HD 720 1280 x 720
SXGA+ 1400 x 1050	XGA 1024 x 768
SXGA 1280 x 1024	SVGA 800 x 600
WXGA 1440 x 900	PAL 768 X 576
SXGA 1280 x 960	VGA 640 x 480

Specifications

Driver Support:

- Microsoft® DirectShow® API
- Linux available from open source community

Inputs:

Video:
- 2x DVI-I
- 2x HDMI (*DVI - HDMI adapters included*)
- 2x VGA/XVGA resolutions
  up to 1600 x 1200 at 60 Hz
  (*DVI - VGA adapters included*)
- 2x Component/composite S-Video
  (*component breakout, BNC - RCA adapters
  included, and BNC - mini included*)

Audio:
- HDMI (*2 x 8 channels LPCM*)
- Unbalanced (*1 x stereo*)

Connectivity:

PCI Express (*x 4*):
- Slots: x 4, x 8, or x 16

Pre-Processing:

- Closed-caption extraction / rendering
- Logo / bitmap overlay
- Scaling, cropping, de-interlacing and
  inverse telecine
- Loss of video automatic test pattern
  generation with text overlay option

Dimensions:

- Half-length board
- 6.60" L x 4.38" H (*16.77 cm L x 11.12 cm H*)

Hardware Warranty:

- 1 year limited hardware warranty

System Requirements:

- Multi-core processors (*4 or more*) are recommended
  to run video applications.

The Osprey 820e video capture card requires intense bandwidths across the system bus, CPU, and memory. The host computer system capabilities (CPU, RAM, and motherboard) must be capable of processing this amount of data. The following system requirements are required to achieve desired HD performance.

- Install the Osprey video capture card in a PCI Express® (PCIe®) slot with direct lanes to the CPU, or a Northbridge or IOH.
- The selection of the CPU is critical. To process full HD video on both channels of the Osprey 820e, the minimum processors required are dual i7-3930K@3.2GHz.

RoHS compliant

Windows Media

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