

**ViewCast** - a leading global provider of streaming hardware and software products.



## Ideal Users and Applications

### • BROADCASTERS

For Internet TV and mobile video, especially those with HD requirements.

### • GOVERNMENT

For open meetings and PEG needs, due to broadcast standards, especially those with HD requirements.

### • GLOBAL OEM SYSTEMS INTEGRATORS

Including content owners and aggregators, needing to re-purpose professional broadcast HD and SD content for IP video distribution and video-on-demand (VOD) applications. It is also perfect for ingesting HD/SD video for archiving and/or transcoding workflows.

# Osprey-700e HD

## Designed for Live in HD with SD Switching On-the-Fly

ViewCast is proud to add its first high-definition (HD) card to the Osprey® family: the Osprey-700e HD – with standard-definition (SD) switching on-the-fly! Legendary Osprey performance – now in HD – with the latest PCI Express® technology for high-flying performance.

Already making a splash, the Osprey-700e HD won TV Technology magazine's 2007 STAR Award and was featured in *HD Video Pro* magazine's February 2008 issue.

The Osprey 700e HD accepts industry-standard SD and HD SDI in a single half-height PCIe card. By utilizing the high-speed PCI Express bus the Osprey-700e HD provides the solid bandwidth required for high-resolution video capture in applications for a wide range of SD and HD standard resolutions up to 1080i (60/59.94/50 Hz). The Osprey-700e HD card's SDI input supports up to eight independent embedded stereo audio pairs in all SD and HD modes.

### Optimized for Live Streaming

Take advantage of Designed for Live<sup>SM</sup> features, such as Logo Bitmap Overlay with transparency and positioning controls. Automatically detect and adapt on-the-fly when the input video format changes from movie frame rates to TV frame rates. The Osprey-700e HD can do the job today and it's ready for your future applications.

### Exclusive Designed for Live Adaptive Features

With the Osprey-700e HD card, you can automatically adapt to input signal

format changes without having to stop, reconfigure, and restart your video application. This newest Designed for Live™ feature distinguishes the Osprey-700e HD from many cards used for ingesting video into video editing systems or other applications, enabling you to:

- Switch On-the-Fly Between SD and HD: Accepts a variety of SD and HD video standards and will automatically adapt – without interruption – when the signal format changes between any of the supported SD and HD modes.
- Specify constant output format with changing input format: Can automatically adapt (size and scale) the incoming video to match the selected output parameters. You can freely switch between a live HD studio feed, SD promo clip from a playback server, back to live HD, etc. — without touching a thing!
- Instantly publish your live streaming content. We call it Instant VOD, allowing you to configure separate live and archived versions of the same live content — separate logos, separate sizing, cropping, scaling, etc. — to minimize or eliminate post-processing time and resources. (*Requires Osprey SimulStream®*)

### Multiple Streams Per Input

Purchase the Osprey-700e HD with Osprey SimulStream and you can feed multiple encoders at the same time. Use it with a variety of available streaming codecs to



*Think performance!*

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easily create and manage live streams in RealVideo®, Windows Media®, Adobe® Flash®, and MPEG-4 – all at the same time and in any combination. Or create multiple streams of the same type with completely independent settings for sizing, scaling, logos, and bit rates.

### Professional Features for Broadcasters

Features, such as color space conversion, automatic telecine detection and processing, and automatic optimization for changing motion content make this a perfect choice for broadcast professionals. We've added the broadcaster-requested feature "Loss of Video Detection" that lets you automatically substitute internally-generated SMPTE color bars with an optional text overlay.

**Optimized for the latest PC architectures**, PC manufacturers have adopted the "be better served" philosophy by upgrading to the PCI Express bus, which offers the latest high-throughput internal bus architecture. The best PC graphics cards use this bus because it unleashes the power of modern multi-core PC engines.

ViewCast chose the PCI Express bus for the Osprey-700e HD for the same reasons – unfettered access to all PC resources. No bottlenecks, no mysterious glitches, no unexplained hiccups, no random data collisions. Just smooth, unadulterated power. Power that can support multiple Osprey PCIe cards in one system for the ultimate in high-density, multi-channel streaming.

### Industry-proven performance

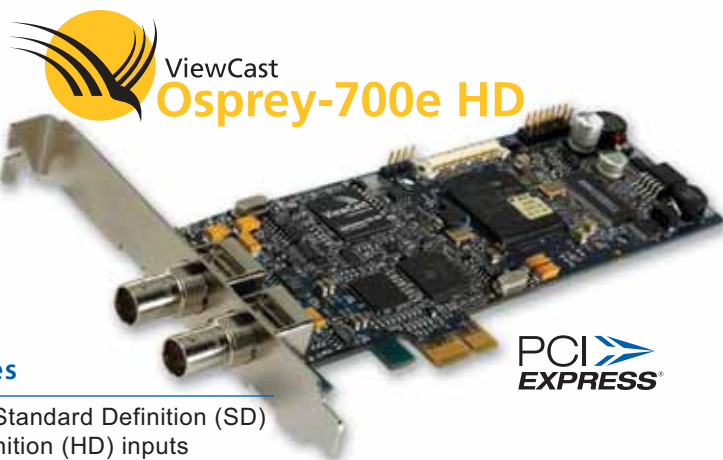
Over 300,000 Osprey cards are out in the marketplace worldwide being used in a wide variety of broadcast, commercial and industrial applications. You'll find Osprey capture cards in mission-critical applications throughout the world.

### Rock-solid stability

Legendary Osprey reliability means you can count on rock-solid performance, day in and day out.

### Half-height profile

The Osprey-700e HD card's low-profile format delivers greater usability in small form factor computers. Plug it into any 2U server without the need for a riser card. It's the premier solution for rack-mount encoding farms, custom enclosures, and other form-factor constrained environments.



### Key Attributes

- Accepts both Standard Definition (SD) and High-Definition (HD) inputs
- Automatically adapts between SD and HD signals via Designed for Live features
- High-powered PCI Express bus for maximum performance
- Osprey 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, including MPEG-4, RealNetworks, Windows Media and Adobe Flash
  - Instant Video-On-Demand (VOD), allowing your live stream to become instantly available as VOD content
- Low-profile architecture for form-factor constrained environments
- Professional broadcaster features, such as Loss of Video Detection, color space conversion, automatic telecine detection and processing, and automatic optimization for changing motion content

### Features

- Extraction of Closed Captioning and Teletext
- Wide Screen Signaling (WSS) flag for 16x9 capture
- Customized messaging superimposed on color bars upon loss of video signal, with customizable text font, color and placement
- Osprey SimulStream ready
- Video Processing Applications:
  - Advanced Deinterlace choices
  - Spatial Downsampling
  - Temporal Downsampling
  - RGB, YUV Format Conversion
  - Contrast, Brightness, Hue and Gamma adjustment
  - Dynamic Format Change
  - Inverse Telecine
  - Logo/Bitmap Overlay
  - Cropping
- PCIe (x1) – compatible with x1, x4, x8, and x16 PCIe slots
- Drivers available for Microsoft® Windows® operating systems (OS).

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