

## Niagara® Pro Streaming Encoder



### Ideal Users and Applications

#### • BROADCASTERS

*For professional grade mobile video, Internet TV and video-on-demand (VOD)*

#### • ENTERPRISES

*For online training, webcasting and corporate announcements*

#### • CONTENT DELIVERY NETWORKS (CDNs)

*For content management applications, such as save-to-file, archive and search*

### Key Attributes

- Captures, encodes, streams and archives professional grade digital video and audio.
- Simultaneously streams multiple resolutions at multiple data rates in multiple streaming formats, including MPEG-4 and Adobe® Flash® Live.
- Individually customized streams with bitmap overlays (e.g., logos and graphic) and closed-capture pre-rendering.
- Single interface provides set up, control and monitoring of multiple streaming systems.
- Self-contained unit – no mouse, monitor or keyboard required.
- Built-in, front-panel LCD display, control buttons and audio signal level bar graphs.
- Front-panel “A-B-C” buttons activate one-touch, pre-programmable streaming profiles.
- Dual channel, full-resolution video and audio streaming capabilities.

## Niagara® Pro

### The Professional’s Choice for Streaming Media

Go “Pro” with the Niagara® Pro media encoder from ViewCast. It’s the preferred choice for broadcasters, studios, enterprise IT professionals and CDN service providers because it’s loaded with all the features professionals demand. *Why settle for less?*

The Niagara Pro delivers powerful performance in a wide range of applications, such as:

- *Capturing and encoding live video for streaming over the Internet to PCs and mobile devices.*
- *Capturing live video for Video-on-Demand (VOD) applications.*
- *Capturing and compressing video for digital media archiving.*
- *Re-purposing video from tape-based video archives for Internet and intranet distribution.*
- *Creating and producing educational and training videos for educators and IT professionals.*

Niagara Pro accepts two separate audio and video channels to capture and encode two independent, full resolution (D1), high-quality streams. With the included Osprey® SimulStream®, you can create additional streams from the same sources in different formats – encoded separately at the same time. This offers you the flexibility to deliver exactly the right content for your audiences in their optimum format, including Adobe Flash Live and MPEG-4.

Now you can encode customized streams for intranet users, high-speed Internet users, dial-up users, and users with mobile devices – all at the same time! You can size and scale each individual stream, and separately “brand” each stream with bitmap overlays (e.g., logos).



High-Quality Streaming Appliance

### Professional features include:

- *Supports popular domestic and international standards, including SD-SDI and AES/EBU digital audio.*
- *Two completely independent sets of audio and video inputs.*
- *Front-panel video confidence display alternates between the two channels.*
- *Front-panel dual-channel audio level bar graphs.*
- *Automatic switchover to video test source with loss of input video.*
- *Front-panel LCD display and convenient status navigation controls.*
- *Simple front panel controls and a versatile Web control and management interface – no keyboard, monitor or mouse required.*
- *Uses Microsoft® Windows® XP Embedded O/S for the ultimate in reliability and unattended 24x7 operation.*
- *USB ports for easy installation of software upgrades, encoding profiles, as well as transferring archived files.*
- *Client management software (Niagara SCX® Pro) and Web-based software (Niagara SCX Pro Web Interface tool) is included.*
- *Efficient use of rack space – only 2 units high!*

## Niagara Pro Included Software Drives Greater Functionality

The Niagara Pro includes two of ViewCast's most versatile software applications – Niagara SCX Pro and Osprey SimulStream – both pre-configured and ready to use. These renowned tools empower you to set up, control and monitor multiple Niagara streaming systems throughout an enterprise or over the Internet, using a single, user-friendly interface.

Capture, encode, stream and archive video and audio in a wide variety of popular encoding and streaming formats, including:

- Uncompressed AVI capture to file
- Adobe Flash Live
- Adobe Flash capture to file
- Windows Media® and Silverlight® compatible
- RealVideo® streaming and capture to file
- MPEG-4 streaming

Niagara SCX Pro, together with Osprey SimulStream, enables you to create multiple streams in different formats simultaneously, giving you the flexibility to create exactly the right content for your various audiences, including Adobe Flash Live and MPEG-4 streaming.

This means you can encode different streams for intranet users, high-speed Internet users, dial-up users, and viewers on mobile devices – all at the same time! You can also size and scale each individual stream, and customize each stream with bitmap overlays (e.g., logos and graphics), closed-caption pre-rendering, etc.

This dual-channel encoder features three front panel pre-programmable “A-B-C” buttons that can be set up via the Niagara SCX Pro web interface. This unique feature enables custom encoding profiles or use the included pre-defined encoding profiles, then select and activate them by simply pressing a single button.

No other media encoder on the market today offers this level of intuitive features, flexibility and convenience – another reason ViewCast is a global leader in the industry.

### Specifications

- Video Input: SDI, S-Video, composite
- Audio Input: unbalanced stereo (2 x BNC), balanced stereo (2 x XLR), SDI Embedded, AES/EBU
- 2 USB ports
- Video encoding formats supported: Windows Media, RealVideo, MPEG-4, Flash (file), AVI, and Adobe Flash Live
- (2) 1-gigabit Ethernet port

### Encoder Configuration Tool Niagara SCX Pro Web Interface

For custom configuration of the Niagara Pro system settings, ViewCast created the Niagara SCX Pro Web Interface tool, which is included with all Niagara Pro appliances. You only need a Web browser on any PC running any operating system to you can control and configure any Niagara Pro streaming media encoder appliance.

This Web-based user interface allows you to browse to any Niagara Pro or Niagara GoStream product line on a LAN or WAN network and manage the entire system configuration, including:

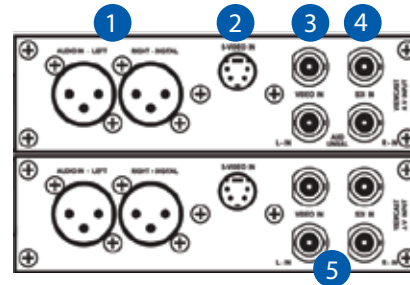
- Create, modify, and delete encoder profiles
- Start and stop individual encoders
- Pre-configure and assign “A-B-C” buttons
- View and manage encoder log files and entries
- Modify system network configuration settings (network name, IP configuration)



### Channel A & B AV Inputs

Each AV Input channel provides the following input ports:

1. Left/Right XLR connector for balanced audio sources; Right XLR connector for AES/EBU
2. Mini-DIN connector for S-Video source
3. BNC connector for composite video source
4. BNC connector for SDI video sources with embedded SDI audio
5. Left/Right BNC connectors for unbalanced audio sources



### Osprey Digital SimulStream

Designed to provide the optimal experience of a streamlined workflow, Osprey Digital SimulStream provides the ability to deliver multiple streams at multiple bit rates from a single video source. This is a premium software enhancement to the Niagara Pro to extend the capabilities of a single channel audio and video capture.

#### Osprey Digital SimulStream Features:

- Optimized streams for a diverse Internet audience — all streaming in real-time
- Maximum efficiency without sacrificing quality
- Complete utilization of multi-core processors
- Maximum channel density for streaming production
- Reduced hardware costs