

# Niagara® 7500

Streaming Media Appliance



## HD Streaming So Advanced, It's Simple.

### A Next Generation HD Streaming Appliance.

Video streaming from high-definition video sources has reached a new level of quality and performance with the Niagara 7500. Designed for professional broadcasting applications, this powerful streaming appliance simplifies the complex workflows often associated with the transformation and delivery of high-definition video over IP and mobile networks.

### Simplicity without sacrificing functionality.

The Niagara 7500 accepts standard or high-definition video through its SDI interface, and an SDI loop out is provided to facilitate workflow. A key feature of its video processing capability is that it can switch on-the-fly between standard or high-definition sources, without having to re-initialize the system. Audio inputs include analog stereo, 2 channels of AES/EBU, and up to eight stereo pairs of embedded SDI audio. Its powerful video pre-processing features include closed-caption extraction and rendering, de-interlacing, inverse telecine, bit map overlay, scaling and cropping.

### Loaded With Feature-Rich Streaming Tools.

The Niagara 7500 comes standard with ViewCast Simul-Stream technology, which allows a single video source to generate several video streams simultaneously in many popular formats, including VC-1, Windows Media, Flash, H.264, 3GPP and more. It also comes with Niagara SCX Pro management software which allows you to control all its key features through an easy-to-use Web interface.

### Legendary Reliability.

In today's digital media market, integrating highly reliable technology to deliver multi-platform experiences is a must. With the Niagara 7500 you get peace of mind knowing it is built on the award-winning quality of ViewCast Osprey® technology.

### Ideal Solution for:

- > Broadcasters
- > Content Delivery Networks
- > Network Service Providers

### Applications

- > Live streaming / simulcasting
- > Webcasting
- > Mobile TV
- > Video-on-demand

### Key Attributes

- > Live capture, encoding and streaming for professional-grade digital video and audio delivery.
- > Supports popular standards, including NTSC and PAL.
- > High definition and standard definition SDI video, AES/EBU, digital / analog audio capabilities.
- > Video confidence monitor.
- > Touch control interface, front-panel LCD status display, multi-segment LED audio meters.
- > Simultaneously streams multiple resolutions at multiple bit rates in multiple streaming formats, including H.264, Adobe® Flash®, VC-1 and Windows Media® (Silverlight™ compatible).
- > Individually brand streams with bitmap overlays (e.g., logos and graphics).
- > Niagara SCX® Pro software provides remote set up, control.
- > Front-panel "A-B-C" buttons activate one-touch, pre-programmable streaming profiles.
- > Self-contained unit - no mouse, monitor or keyboard required.

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## Streaming Media Appliance

### Front View



### Rear View with Audio/Video Input descriptions



- 1 BNC connector for SDI video with embedded SDI audio
- 2 BNC connector for SDI loopout
- 3 XLR connector for AES/EBU 2 stereo channels
- 4 RCA for unbalanced audio
- 5 Left/right XLR connector for balanced audio

### Niagara SCX Web Interface

For the Niagara 7500 appliance, ViewCast created the Niagara SCX Pro Management tool.

This Web-based user interface allows you to browse to any Niagara 7500 on a LAN or WAN and manage the entire system configuration. Using the Web interface, you can:

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

### Encoding Formats

- VC-1
- Windows Media® (*Silverlight™ compatible*)
- Adobe Flash® Live
- H.264 over RTMP and RTP
- MPEG-4 Part 2
- H.263
- 3GPP/3GPP2 Container for MPEG-4
- RealVideo®
- AVI capture to file

### Inputs:

#### Video:

- SDI (Standard Definition and High-Definition)

#### Audio:

- Embedded SDI Audio (16 channels or 8 Stereo pair)
- AES/EBU (4 channels or 2 Stereo pair)
- Balanced stereo (XLR)
- Unbalanced stereo (RCA)

### Connectivity:

#### USB Ports:

- 2 rear panel, 1 front panel

#### Ethernet:

- 2 x 1Gbit Ports

### Software:

- Niagara SCX Pro with Web Interface
- SimulStream

### Hardware:

- 8 processing cores (2 quad cores)
- Memory: 4GB

### Weight:

- 31 lbs (14.1 Kgs)

### Dimensions:

- 2U Rack Mount Appliance (2RU x 19" W x 22" D)

### Power:

- 400W Power Supply

### Hardware Warranty:

- 1 Year limited hardware warranty

