

Niagara® 4100

Streaming Media Appliance



Stream live events from virtually any location.

Rugged, portable, powerful.

The Niagara 4100 is designed with a combination of simplicity, portability and power to quickly and easily stream your HD content to broadband and mobile networks including live streaming to Apple® iPhones® and iPads®. With the ability to ingest high-definition video, the Niagara 4100 is ideal for live sports, live newsgathering operation, webcasting or any streaming application where you need rock-solid HD performance on the go.

This rugged, portable streaming appliance can ingest standard- or high-definition video sources through its SDI input, and accommodates a variety of audio input formats, including embedded SDI, AES/EBU, and balanced or unbalanced stereo.

With a portable, streamlined chassis, an easy-to-use web interface, and intuitive front panel controls, setup and operation is quick and easy. The Niagara 4100 even comes standard with front panel A,B,C buttons that can be pre-configured independently to activate different streaming profiles to meet the needs of any streaming application.

A self-contained system.

There's no need for a keyboard, monitor or mouse. The Niagara 4100 is a self-contained system built with the durability to withstand the most demanding production environments. You can control all key functions from the front-panel controls, or the unit can be accessed remotely anywhere on the network through its built-in web interface. All rear-panel connections are recessed for maximum protection, and there's even a built-in handle for easy portability.

With ViewCast's SimulStream technology, the Niagara 4100 can stream simultaneously different data rates resolutions and formats, including MPEG-4, Adobe® Flash® H.264, Windows Media® (*Silverlight® compatible*) and RealVideo®.

Ideal Solution for:

- > Enterprise
- > Broadcasters
- > Government
- > Education
- > Networks service providers

Applications

- > Webcasting
- > Live streaming
- > Newsgathering
- > Mobile TV
- > Live sports

Key Attributes

- > Transform your HD content for delivery to web formats
- > Portable, powerful, compact and durable for on location streaming in demanding environments
- > Simultaneously streams multiple resolutions at multiple data rates in multiple streaming formats, including MPEG-4, Adobe® Flash® H.264, and Windows Media® (*Silverlight® compatible*)
- > Captures, encodes, streams and archives digital video and audio
- > Enables customized streams with bitmap overlays to brand your logo or graphics to your stream
- > Web interface provides setup and control of multiple streams
- > Built-in front-panel LCD screen with control buttons and audio signal level display
- > Self-contained unit – no mouse, monitor or keyboard required
- > Front-panel A,B,C buttons activate one-touch, pre-programmable streaming profiles

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Niagara SCX with web interface

The Niagara 4100 appliance is pre-configured with Niagara SCX remote management software. All you need is web browser access from your PC to control and configure any Niagara 4100 streaming media appliance.



This web-based user interface allows you to browse to any Niagara 4100 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 encoder 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:

- Windows Media® (Silverlight® compatible)
- MPEG-4
- Adobe® Flash® H.264
- Apple® HTTP Live (iPhone)

Monitoring:

- Video presence indicator
- LCD status monitor
- Audio level meter
- Audio headset

Inputs:

- Video:
- SDI (standard definition and high definition) (1 x BNC)

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

Video Format:

- SMPTE 259M and 292M SDI standards

Connectivity:

- USB Ports:
- 1 rear panel, 1 front panel

- Ethernet:
- 2 x 1 Gbit ports

Software:

- Niagara SCX® with Web interface
- SimulStream®

Hardware:

- Intel i7 processor
- 4 GB RAM or larger
- HDD (162 GB or larger)
- Osprey® 710 HD technology

Pre-Processing:

- Scaling, cropping, de-interlacing, inverse telecine
- closed-caption rendering

Weight:

- 8 lbs (3.6 Kgs)

Dimensions:

- 4.5" H x 8" W x 12" D (11.43 cm H x 20.32 cm W x 30.48 cm D)

Power:

- 90 W power supply
- 12 V DC (AC to DC adapter included)

Package Contents:

- Mini XLR to XLR
- Rugged carrying case

Hardware Warranty:

- 1 year limited hardware warranty

