



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 adaptive streaming to Apple® iPhone® and iPad® mobile digital devices. 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 performance on the go.

This rugged, portable streaming system 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 supports multiple concurrent streams in a variety of formats, at multiple bit rates, from a single video source - all simultaneously.

It also comes with Niagara SCX® management software so you can control all its features through an easy-to-use web interface. Niagara SCX will markedly improve the live streaming delivery workflow. By eliminating the need for an external stream segmenter, encoding workflows are simplified and overall system costs reduced.

Ideal Solutions

- > Broadcasters
- > Enterprise
- > Government
- > Network service providers

Applications

- > Live sports
- > Webcasting
- > News gathering
- > Mobile TV

Key Attributes

- > Transforms your HD content for delivery to web formats
- > Portable, powerful, compact and durable for on location streaming in demanding environments
- > Niagara 4100 supports Adobe® Flash dynamic and Apple HTTP live (*iPhone and iPad mobile digital devices*), Adobe Flash® H.264, MPEG-4, H.264, H.263, and Windows Media® (*Silverlight*), as well as for 3GPP/3GPP2, MP4 container support.
- > 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

NIAGARA® 4100

Streaming Media System

Niagara 4100 front view



Niagara 4100 back view



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 following system configurations:

- 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).

* Output streams tested up to 720p

Encoding Formats:

- Apple® HTTP live streaming
- Adobe® Flash dynamic streaming
- Adobe® Flash® H.264
- Microsoft® Windows Media® (Silverlight®) *
- MPEG-4, H.264, H.263
- 3GPP/3GPP2, MP4 container support

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) (mini XLR)
 - 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:

- Multi-core processor
- HDD (160 GB or larger)

Pre-Processing:

- Scaling, cropping, de-interlacing, inverse telecine
- Closed-caption rendering (SD only)

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)

Additional Contents:

- Mini XLR to XLR adapter cable
- Rugged carrying case

Hardware Warranty:

- 1 year limited hardware warranty



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