

Niagara[®] 4100

Streaming Media System

Stream live events from virtually any location.



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.

Rugged, portable, powerful.

With the ability to ingest standard- or 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.

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 also 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.

The Niagara 4100 supports multiple concurrent streams in a variety of formats, at multiple bit rates, from a single video source - all simultaneously.

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
- > 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:

- Adobe® Flash® H.264 *
- Adobe® Flash dynamic streaming
- Apple® HTTP live streaming
- Microsoft® Live IIS Smooth Streaming
- Microsoft® Windows Media® (*Silverlight®*) SD and HD *
- MPEG-4, H.264, H.263
- MPEG-2 Transport Stream
- 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
- Systems with Niagara SCX versions prior to 7.2 - CEA 608 closed caption overlay is available on all encoder types (*SD only*).
- Systems with Niagara SCX version 7.2 - HD and SD CEA 608/708 embedded closed captions **only** available for HLS, Flash Adaptive, Flash, and MPEG2TS streams. HD and SD CEA 608/708 overlay closed captions is available for all encoder types.

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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