

Niagara® 8224 Streaming Encoder



Applications

- **GOVERNMENT**
For state or local government applications, such as open meetings or remote viewing of multiple traffic/weather cameras
- **SECURITY / MILITARY / LAW ENFORCEMENT**
For remote viewing of multiple surveillance cameras
- **NETWORK SERVICE PROVIDERS**
For live streaming and mobile video

Key Attributes

- Captures, encodes, streams and archives video and audio content from separate, independent analog A/V sources
- High-density encoding with 8 fully independent channels per system
- Each channel can be configured independently to customize delivery formats, sizing and bit rates
- Accepts Component, Y/C (S-Video) and Composite video inputs in the popular world-wide formats (NTSC and PAL)
- Balanced and Unbalanced stereo audio inputs
- Generates a wide variety of encoding and streaming formats at the same time
- Remote control and management
- Enables customized streams with bitmap overlays (e.g., logos, graphics)
- Single interface provides set-up, control and monitoring of multiple geographically-dispersed streaming systems
- Low cost per channel

Niagara® 8224

8-Channel Analog System: High-Quality, High-Density Encoding

The Niagara® 8224 is ViewCast's newest high-density media encoder, designed and optimized to capture, encode, stream, and archive premium quality audio and video on 8 fully independent channels simultaneously. This powerful system is the ideal choice for creating select combinations of full- and CIF-resolution streams for your most demanding multi-channel applications.

The 8-channel Niagara 8224 2U analog media encoder provides these key features:

- Fully independent configurable channels:
 - Capture size and bitrate
 - Media format and other options
- Each video channel accepts:
 - Component
 - Composite
 - Y/C (S-Video)
 - Worldwide formats (NTSC and PAL)
- Industry standard audio inputs –
 - Balanced and Unbalanced stereo (8 stereo pairs or 16 mono audio channels)

The Niagara 8224 includes two of ViewCast's most versatile software applications – Niagara SCX® Pro and SimulStream® – both pre-configured and ready to use. These award-winning tools empower you to set up, control and monitor multiple Niagara streaming systems throughout an enterprise or over the network, using a single, easy-to-use interface.

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

- MPEG-4 Part 2
- H.263
- H.264
- Windows Media® (Silverlight™ compatible)
- Adobe® Flash® capture to file
- RealVideo® streaming and capture to file
- Uncompressed AVI capture to file
- 3GPP/3GPP2 container formats

Niagara SCX Pro software, together with SimulStream software, enables you to create multiple streams in different formats in real time*, giving you the flexibility to create exactly the right content for your audiences. This means you can encode different streams for Intranet users, high-speed Internet users, dial-up users, and users with mobile devices – all at the same time!

Niagara® 8224



You can customize each stream with:

- Individual sizing and scaling
- Bitmap overlays (such as logos and graphics)
- Closed-caption pre-rendering, etc.

This level of flexibility and convenience is another reason ViewCast is a global leader in the industry.

** Niagara SCX allows complete control over each stream's capture size and other parameters that can cumulatively affect system performance due to the limitations of CPU speed and other internal factors. Contact ViewCast's Application Support team to ensure that the Niagara 8224 can support your combination of channels, frame sizes, bitrates, multiple format encodes, etc.*

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Streaming Encoder



Niagara® 8224: System Configuration & Specifications



8224 Core System

- 2 x Quad-Core Processors
- 2 x 250GB SATA Hard Drives
- 4 GB Memory (4 x 1GB)
- 2 x 1Gbit Ethernet Ports
- DVD-RW Drive
- Inputs (via 2 x Osprey®-450e capture cards)
- 8 x Composite (BNC) video inputs (BNC to RCA adapters included)
- 8 x RCA Unbalanced stereo audio Inputs (via breakout cable)

Additional Audio and Video Panels



2 x 1RU 8 channels Composite and Unbalanced audio



2 x 1RU 8 channels Balanced stereo audio inputs (XLR)



2 x 1RU 8 channels component, Y/C (S-Video) video input or 24 Composite video inputs

Software Includes:

- **Niagara SCX Pro** – Management and control software for configuring and managing multiple, remote or distributed Niagara streaming encoders throughout an enterprise or across the Internet.
- **SimulStream** – Supports multiple, concurrent streams of Windows Media (Silverlight compatible), RealVideo and MPEG-4 at multiple bitrates from a single video source.
- Microsoft® Windows® XP Professional

NetWell®

ViewCast社日本総代理店(マスターリセラー)
株式会社ネットウエル
ビデオネットワークソリューション営業部
電話: 03-5368-3473(直) FAX: 03-3226-2860
電話: 03-5368-3446(代)
〒160-0022 東京都新宿区新宿1-26-1
長田屋ビル6階