ViewCast **Niagara**®
Streaming Media Encoders

ViewCast®
CORPORATION
The Creators of Osprey®
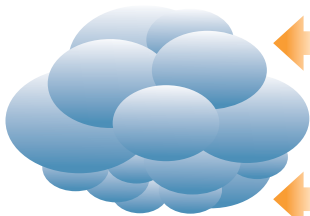Video Capture Cards

Gather Your Video

**Capture, Encode, and Stream
Your Video Content**

Web Server

IP Network

**DRM License
Provider**

**Content Delivery
Network (CDN)
with Streaming Server**

**View Your Video via
the Internet**

Niagara® Streaming Media Encoders by ViewCast®

The ViewCast Niagara family of streaming media encoders and servers are pre-configured, plug-and-play encoding solutions, enabling you to quickly capture and broadcast premium quality audio and video.

Built upon the industry-leading technology of Osprey video capture boards, Niagara servers also include ViewCast's productivity enhancing software modules: Niagara SCX® and SimulStream.® Moreover, Niagara streaming media encoders can be enhanced with the addition of partner software to enable video editing, rich-media presentations and even video archival and search.

So if you're looking for a powerful, reliable, and cost effective streaming media encoder that is ideal for virtually any streaming, archiving, or video production application, look no further, ViewCast's Niagara platform is a perfect fit.

Niagara Product Applications Include:

- Distance Learning and Training
- Internet Broadcasting
- Internet TV (ITV)
- Mobile TV/Mobile Streaming
- Corporate Communications
- Internet Advertising
- Video Editing and Post Production
- Podcasting

Niagara I-Stream

The Niagara I-Stream series of encoders is an entry-level video encoder platform. The I-Stream line is designed to encode and deliver video content primarily for Video-on-Demand (archived) applications to a limited audience.

Models:
- 4112
- 4115
- 4222

Key Applications:
- Churches
- Education (K-12)
- Audio/Visual Departments
- Athletic Events
- Small Business

Niagara PowerStream™

The Niagara PowerStream series of encoders is a professional-level video encoder platform designed to meet the needs of streaming-intense customers. The PowerStream series is engineered to encode and deliver video content for both Live and On-Demand (archived) applications.

Models:
- 5215
- 5222
- 5225

Key Applications:
- Television Broadcasters
- Government Agencies
- University Distance Learning
- Fortune 1000 businesses

Niagara PowerStream Pro

The Niagara PowerStream Pro encoder is a studio-level encoding appliance that delivers a broadcast-quality experience with minimal training time and system interaction. The PowerStream Pro is designed to be operational within 10 minutes of system power-up, deliver both Live and On-Demand (archive) video encodes, and effortlessly manage multiple high-bandwidth encoding sessions.

Models:
- PowerStream Pro

Key Applications:
- Movie Studios
- TV Broadcasters
- Cable and Internet Service Providers
- Government

Niagara *GoStream*™

The Niagara GoStream is an affordable, portable, easy-to-use encoding appliance. GoStream allows users to produce professional quality video from the field, and stream content to the web in real-time. And all this with a simple, intuitive, one-button interface.

Models:
- GoStream

Key Applications:
- Internet TV
- Distance Learning
- Training
- Live Event Streaming
- News/Sports/Entertainment

ViewCast Video Management Software

Niagara SCX® 5.0/4.0

ViewCast's exclusive Niagara SCX software allows users to adjust the source video and audio of encoders, add a logo or watermarking, enable closed-captioning, utilize video cropping, and more…

Remotely control up to 50 encoders from a single station!

Applications:

- Data Center "lights out" encoding
- Classroom encoding with central administration
- Business television encoding
- Sales training
- Traffic camera management
- Workflow encoding applications
- CEO broadcasts
- Internet TV broadcasts
- Product announcements
- Security camera management
- Analyst briefings

Product Features:

- Concurrent view of virtually unlimited encoders
- Full control of encoding parameters
  - Video card and input selection
  - Audio card and input selection
  - Video resolution and format
  - Video and audio attributes
  - Encoder profile/target audience
  - Stream destination and port
- One-click post view
- Vectorscope/waveform display for end-to-end color accuracy
- Encoder statistics monitoring:
  - Frame rate, bit rate
  - CPU load
  - Audio level
- Application integration via XML, the mechanism of choice for web developers

Supported Formats:

- Include
  - MPEG-2*   – Real Video
  - MPEG-4/H.264*   – Flash
  - Windows Media   – AVI
- DRM for Windows Media*

Included with 5.0

Niagara Systems — Get the most out of your stream with SimulStream®!

SimulStream, included in all Niagara Systems, is ViewCast's software, enabling Niagara systems to output multiple instances of audio and video data from a single input source to multiple applications.

The Optimized Solution…SimulStream!

SimulStream is designed to provide both an optimized, high quality streaming experience and a straightforward, simplified workflow.

The SimulStream Solution allows users to stream with multiple formats to multiple audiences with minimal hardware and CPU impact.

Plus, scalability allows for multiple formats and individual stream optimization.
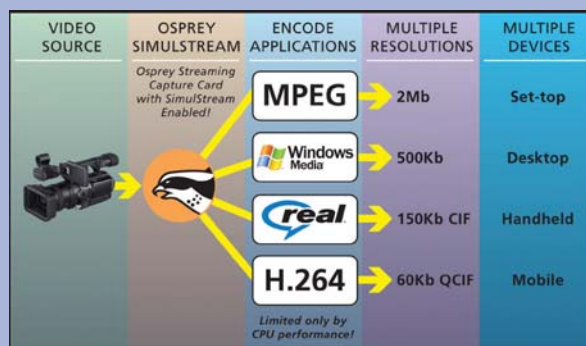
Advantages:

- Optimized streams for a diverse internet audience in realtime
- Maximum efficiency without sacrificing quality
- Complete utilization of latest processor speeds
- Maximum solution density for streaming production
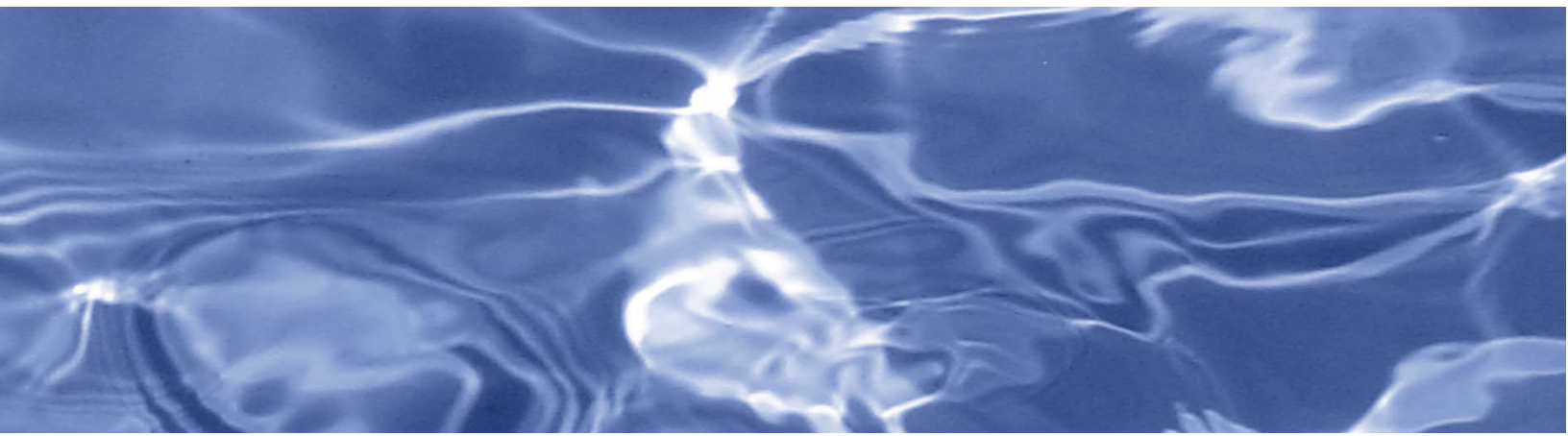- Reduced hardware costs

Disadvantages:

- NONE!

SimulStream is the premier software for Niagara streaming products!

For more product information and specifications,
visit **www.viewcast.com**

Niagara Comparison Chart

		I-Stream	PowerStream	PowerStream Pro	GoStream
System Model Number		4112/4115/4222	5215/5222/5225	PS PRO	GoStream
Number of Video Inputs	Analog Composite	1/1/2	1/2/2	2	1
	Analog S-Video	1/1/2	1/2/2	2	1
	SDI	0/1/0	1/0/2	2	N/A
	DV	0/1/0	1/0/2	2	N/A
Video Formats	NTSC/PAL	✓	✓	✓	✓
Video Processing	HW scaling & cropping	✓	✓	✓	✓
	Color space conversion	✓	✓	✓	✓
	Bitmap overlay	✓	✓	✓	✓
Number of Stereo Audio Inputs	Unbalanced Stereo (RCA)	1/1/2	1/2/2	2	1
	Balanced Stereo (XLR)	1/1/2	1/2/2	2	1
	AES/EBU	0/1/0	1/0/2	2	N/A
	Embedded SDI	0/1/0	1/0/2	2	N/A
Supported Encoding Formats	AVI	✓	✓	✓	✓
	Flash	✓	✓	✓	✓
	MPEG-2	✓	✓	✓	✓
	MPEG-4	✓	✓	✓	✓
	Windows® Media	✓	✓	✓	✓
	Real® Video	✓	✓	✓	✓
Software Bundle	SimulStream®	✓	✓	✓	✓
	Niagara SCX®	✓	✓	✓	✓
Output Streams	QCIF	4 to 8	8+	16+	4 to 8
	CIF	2 to 4	4 to 8	12+	2 to 4
Physical Specs	Chassis	1RU/1RU/2RU	All	2RU	Portable/3RU (Dual Dock)

Actual unit specifications may differ as chart summarizes feature set of product offering per series, not by model.

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video
communication
solutions

ViewCast Osprey®
Video Capture Cards

ViewCast Niagara®
Streaming Media Encoders

ViewCast IVN
Interactive Video Network

From streaming digital video on the Internet to distribution of broadcast-quality video throughout the corporate enterprise and around the world, ViewCast provides the complete range of video communication solutions.