

Niagara[®]

Streaming Media Systems

Niagara[®] streaming systems are self-contained professional-grade systems, available in multiple configurations – from HD systems designed for live broadcasting, to multi-channel high-density systems, to portable streaming encoders ideal for remote applications such as live sporting events and newsgathering operations. All of our Niagara systems can be controlled anywhere on the network through an intuitive web interface with our remote management software, and our robust SDK allows integration of any Niagara system to meet the demands of custom applications or workflows.

Niagara[®] 2200



Key Attributes:

- Powerful, compact self-contained unit for rack mount or portable applications
- Professional-quality streaming of video and audio
- Easy-to-use web interface for system control and management
- One-button activation of one or more pre-programmed streaming profiles
- Simultaneously streams multiple resolutions at multiple bit rates
- Front panel control, video confidence indicator, audio levels and alarms

Specifications:

- Single channel, standard definition, full-resolution video and audio streaming capabilities
- **Video Input:**
Component (3 x BNC), Y/C (S-Video) (2 x BNC, mini-DIN adapter included) and composite (1 x BNC, RCA adapter included)
- **Audio Input:**
Balanced stereo (2 x XLR), unbalanced stereo (2 x RCA)
- **Video encoding formats supported:**
Microsoft[®] Windows Media[®] (Silverlight[®])
Adobe[®] Flash[®] H.264
MPEG-2 TS, MPEG-2, and H.264
- 2 USB ports (1 front, 1 rear), 2 Ethernet (1 Gbit)
- Encoder management software

Niagara[®] 4100



Key Attributes:

- Compact, rugged, portable
- Ideal for remote broadcast applications

Specifications:

- **Video Input:**
SDI (standard and high definition) (1 x BNC)
- **Audio Input:**
Embedded SDI (16 channels or 8 stereo pair); AES/EBU (2 stereo channels) (mini XLR) unbalanced stereo (2 x RCA), balanced stereo (2 x XLR)
- **Video encoding formats supported:**
Adobe[®] Flash[®] dynamic streaming, Flash[®] H.264; Apple[®] HTTP live streaming (HLS); Microsoft[®] Live IIS Smooth Streaming; MPEG-4, H.263, and H.264; Microsoft[®] Windows Media[®] (Silverlight[®]); and 3GPP/3GPP2, MP4 container support
- 2 USB ports (1 front, 1 rear) and 2 Ethernet (1 Gbit)
- Remote management software
- Features an external 12 V power supply. Unit can be powered with Anton/Bauer battery pack.

Niagara[®] GoStream[®] SURF



Specifications:

- **Video Input:**
Standard definition, component (3 x BNC), Y/C (S-Video) (2 x BNC, mini-DIN, adapter included) and composite (1 x BNC, RCA adapter included)
- **Audio Input:**
Unbalanced stereo (2 x RCA), balanced stereo (2 x XLR)
- **Video encoding formats supported:**
Adobe Flash H.264; MPEG-4, Part 2, H.263, and H.264; Microsoft[®] Windows Media[®] (Silverlight[®]); AVI capture to file; MPEG-2 TS, MPEG-2; and 3GPP/3GPP2, MP4 container support
- 2 USB ports (1 front, 1 rear) and 2 Ethernet (1 Gbit)
- Encoder management software

Niagara® Pro II



Key Attributes:

- Dual channel encoding capability
- Captures, encodes, streams and archives professional-grade digital video and audio
- Simultaneously streams multiple resolutions at multiple bit rates, in multiple streaming formats, including MPEG-4 and Adobe® Flash® H.264
- Individually customized streams with bitmap overlays (*logos/graphics*) and closed-caption extraction
- Web interface provides easy setup, control and management
- Self-contained unit – no mouse, monitor or keyboard required
- Built-in, front-panel LCD confidence monitor, control buttons and audio signal level bar graphs

Specifications:

- Dual channel, full-resolution standard definition video and audio streaming capabilities
- **Video Input:**
SDI (2 x BNC), S-Video (2 x mini-DIN), composite (2 x BNC, RCA adapter included)
- **Audio Input:**
Unbalanced stereo (4 x BNC, RCA adapters included), balanced stereo (4 x XLR), SDI embedded (4 pair), AES/EBU (2 x XLR)
- **Video encoding formats supported:**
Adobe® Flash® dynamic streaming, Flash® H.264; Apple® HTTP live streaming (HLS); Microsoft® Live IIS Smooth Streaming; AVI, MPEG-4, H.263, and H.264; Microsoft® Windows Media® (Silverlight®); and 3GPP/3GPP2, MP4 container support
- 3 USB ports (1 front, 2 rear) and 2 Ethernet (1 Gbit)
- Encoder management software

Niagara® 7550



Key Attributes:

- Live capture, encoding and streaming for professional-grade digital video and audio delivery
- Supports popular SMPTE 259M and 292M SDI standards
- High- and standard-definition SDI video, AES/EBU, digital/analog audio capabilities
- Video confidence monitor
- Touch control interface, front-panel LCD status display, multi-segment LED audio meters
- Self-contained unit - no mouse, monitor or keyboard required

Specifications:

- **Video Input:**
SDI (standard and high definition) (1 x BNC)
- **Audio Input:**
Embedded SDI audio (16 channels or 8 stereo pair), AES/EBU (4 channels or 2 stereo pair), balanced stereo (2 x XLR), unbalanced stereo (2 x RCA)
- **Video encoding formats supported:**
Adobe® Flash® dynamic streaming, Flash® H.264; Apple® HTTP live streaming (HLS); Microsoft® Live IIS Smooth Streaming; MPEG-4, H.263, and H.264; Microsoft® Windows Media® (Silverlight®); and 3GPP/3GPP2, MP4 container support
- 3 USB ports (1 front, 2 rear) and 2 Ethernet (1 Gbit)
- Encoder management software

Niagara® 9100



Front View

Key Attributes:

- Live capture, encoding and streaming for professional-grade digital video and audio delivery
- Configurable video/audio inputs
- Individually brand streams with bitmap overlays (e.g., logos and graphics)
- Web interface provides remote setup, control and monitoring
- High-efficiency power supply

Specifications:

- **Video Input:**
9100-8A: 8 composite (8 x BNC) BNC - RCA adapters included
9100-2D: 2 HD or SD SDI (2 x BNC)
9100-4A: 4 composite (4 x BNC) BNC - RCA adapters included
9100-4AV: 4 composite (4 x BNC) BNC - RCA adapters included
Optional breakout panels available for 4 component; 4 Y/C (S-Video)
- **Audio Input:**
9100-8A: 8 unbalanced (16 x RCA)
9100-2A: embedded SDI (8 stereo pair per SDI input)
9100-4A: 4 unbalanced (8 x RCA)
4 balanced (8 x XLR)
- **Input/Output:**
9100-2IP: 2 Gig E connections (1 primary, 1 redundant)
9100-4IP: 4 Gig E connections (2 primary, 2 redundant) Available soon
- **Video encoding formats supported:**
Adobe® Flash® dynamic streaming, Flash® H.264; Apple® HTTP live streaming (HLS); Microsoft® Live IIS Smooth Streaming; MPEG-4, H.263, and H.264; Microsoft® Windows Media® (Silverlight®); and 3GPP/3GPP2, MP4 container support
- 3 USB ports (1 front, 2 rear) and 2 Ethernet (1 Gbit)
- Encoder management software