



- **Encoding**
- **Streaming**
- **Capturing**

Applications

- Business TV
- Video surveillance
- Digital TV
- Hospitality
- Telediagnosis
- IP TV
- WEB TV

Niagara Streaming Server

A cascade of functionalities. Encoding, streaming and capturing over IP networks. On one single device.

encoding

Niagara allows you to encode live video or transcode MPEG1/2 files to MPEG4/H264 video. Through a simple WEB interface you can set output parameters (audio sampling rate, video frame rate, video resolution and bit rate) in real time.

streaming

Niagara is the compact solution that allows to stream up to 2 audio/video simultaneous streams. Each audio/video stream is encoded in MPEG4 and can be distributed with different levels of quality over IP networks.

capturing

The versions of Niagara equipped with a hard disk drive allow to acquire audio/video streams from different input sources and to store them as MPEG1, MPEG2 and MPEG4/DivX.

input

Niagara can support up to three input devices selected from this wide range:

- DV digital video
- DVB-S (for MPEG2 satellite transmissions)
- DVB-T (for MPEG2 terrestrial transmissions)
- TV receiver
- analog video
- SDI

player

Since Niagara is based on open standards like ISMA, it allows to use any player compliant to the most spread standards:

- VideoLAN Client
- Quick Time Player di Apple
- mp4player by MPEG4IP for Linux
- mplayer for Unix-like systems

multiplatform

Niagara is a multiplatform product that allows to stream over heterogeneous IP networks, composed of Windows, Unix and Macintosh hosts.

interface

Niagara can be managed remotely using a WEB interface that allows to configure inputs, outputs, encoding characteristics and also to start and stop the streaming and capturing operations using any WEB browser.

The choice of the streaming parameters can be done in the standard way or, for expert users, in advanced mode.

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Technical specifications

Input

- DVB-S
- DVB-T
- S-Video
- composit analog (PAL e NTSC)
- TV Tuner
- SDI

Output

- one fast Ethernet 10/100 BaseT
- compliant to ISMA standards for IPstreaming
- up to 2 simultaneous streams

Coding video

- MPEG4 Simple Profile (SP)
- MPEG4 PART10 (H264)
- ISMA Level 0 and Level 1
- input resolution from QCIF (176 x 144 pixels) up to CCIR-601 (720 x 480/576 pixels)
- data rate: from 50 kbps up to 15 Mbps

Coding audio

- MPEG4 Advanced Audio Coding (AAC): from 40 kbps up to 512 kbps
- MPEG1 layer 2
- 2 channels (1 x stereo / 2 x mono)

Management

- through web interface

Optional devices

- hard disk drive for audio capture and MPEG2/4 file storage

Niagara: the solution for the transmission of audio / video streams over IP networks.