

Spinnaker 4000

Real Time ASI to IP/Web Transcoding Solution

Description

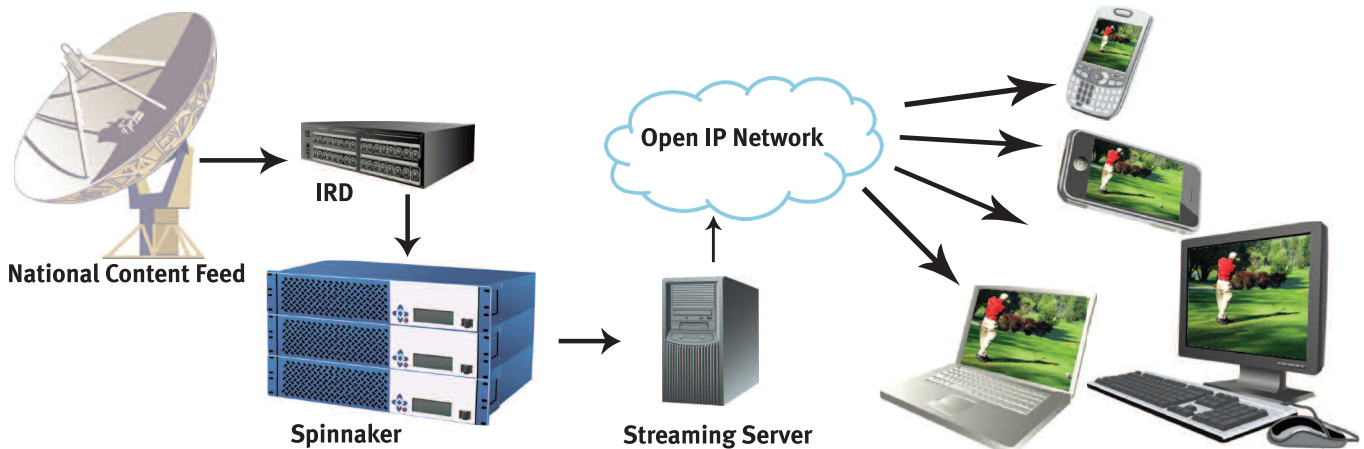
The Spinnaker™ 4000 real time, ASI to IP/Web video transcoding solution allows you to bridge the gap between traditional broadcast media and the evolving requirements for new media over IP networks. It decreases your hardware needs by directly ingesting ASI content without the expensive equipment required to decode to base-band video. Now traditional broadcasters and content distributors have a solution that enables them to reach new media audiences faster and easier than ever. The Spinnaker 4000 not only streamlines going online for broadcasters, but reduces both capital costs and maintenance expenses associated with today's new web strategies.



Using a state-of-the-art encoding engine and an advanced toolset, Spinnaker delivers the bandwidth performance and unique features necessary to provide a true broadcast experience on the web. It is a network appliance designed for cable and satellite operators who need to distribute a large volume of live channels simultaneously. Spinnaker's dual ASI option allows operators to reduce their hardware footprint. Other features like auto program detection make managing multi program streams more efficient than today's traditional IRD. Its multi-format options let broadcasters meet the changing needs of their customers without upgrading to new hardware. Output formats include Flash, H.264, Windows Media, VC-1, Silverlight, and VP6.

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Inlet recognizes the unique requirements needed to bridge traditional broadcasting and new media venues and addresses them with the Spinnaker 4000.



Key Advantages

- Allows satellite and cable operators to save cost, space, and power by reducing the need for additional encoding elements
- Transcode directly from ASI to VC1, Flash, Silverlight, H.264, VP6, VC-1
- 2 channels in 1RU allows for greater channel density

Target Customers

- Satellite and Cable operators
- Telcos
- Broadcasters
- Distributors

Features

Automatically detect the program information

Spinnaker can automatically detect the programs (single or multiple) within a transport stream and easily allow operators to select or schedule encoding events.

Intelligently update default settings based on the incoming stream

Upon selecting a PID (Program ID) for encoding, Spinnaker automatically populates information about it into the Video and Audio settings, taking out the guess work.

Multi-format, multi resolution, multi stream

Spinnaker supports multiple popular modern codecs as well as multiple resolutions, making it possible to target virtually any platform with your content.

608/708 Closed captioning support

Spinnaker supports passing through analog and digital captioning options, as well as converting them to SAMI Internet Captions or turning them into open captions.

Web, local and SNMP management options

Multiple management options allow operators to control Spinnaker encoders from their existing infrastructure, locally, or via an easy to use web GUI.

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Specifications and System Requirements

Inputs

Video

- NTSC, PAL
- DVB-ASI (MPTS, SPTS)
- MPEG-2 (via Transport Stream)

Audio

- Stereo & 5.1 AC3
- MPEG2L2

Codecs

- Windows Media 9 (WMV3) – Simple, Main Profiles
- VC-1 (WVC1) – Simple, Main, Advanced Profiles
- Windows Media Audio
- Windows Media Audio Professional (ASF)
- AAC Audio (Low Complexity & HE AAC)
- AC-3 pass-through (S5000 & S7000)
- Flash 8 (On2 VP6)
- MP3 Audio

Output

Archive

- H.264/AAC file (.mp4)
- Windows Media 9 ASF file (.wmv)
- Transport Stream (H.264/VC-1 – S5000 & S7000)
- On2 Live VP6 file (.flv)

Stream

- H.264 stream
- ASF stream over TCP or UDP
- ASF encoder push or pull mode
- RTMP stream over UDP (FLV)
- MPEG-2 Transport (H.264 & VC-1) over TCP or UDP

Operating Conditions

Ambient temperature

- Operating temperature: 0 to 50°C
- Non-operating (storage): -10 to 60°C

Relative humidity

- Non-operating: <95% non-condensing

Additional features

- Easy to use front panel control
- Intuitive web-based control
- Simple, preconfigured set-ups
- Remote, live event scheduling
- Encoder management service program
- Scheduling
- Presets Import/Export

Processing

Pre-processing

- Scaling
- Cropping
- De-interlacing
- Inverse telecine
- Adaptive image filtering

Encoding

- Adaptive GOP
- Closed captioning via SAMI and user data
- CEA 608/708 translation (S5000 & S7000)
- Interlaced and progressive modes
- Dynamic complexity balancing

Control

- Remote web-based
- LCD front panel
- Programmable encoding templates

Control (continued)

- Local user interface
- SNMP

Physical and Power

Dimensions

- 1RU (S7000)
- 17" (w) x 18.1" (d) x 1.72" (h) (1RU)

Connectivity

- 2 x 10/100/1000 BaseT Ethernet
- 1 x 10/100 BaseT Ethernet

Power

- 100-240 VAC, 50-60 Hz, Full Range
- 220W (1RU)
- Single AC power input

Certifications

Safety

- UL 60950-1:2003
- CAN/CSA – C22.2 no. 60950-1-03

EMC

- FCC (CFR 47, Part 15) Class A
- CE marking



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