

Spinnaker

Multi-format Advanced Encoding Solution

Description

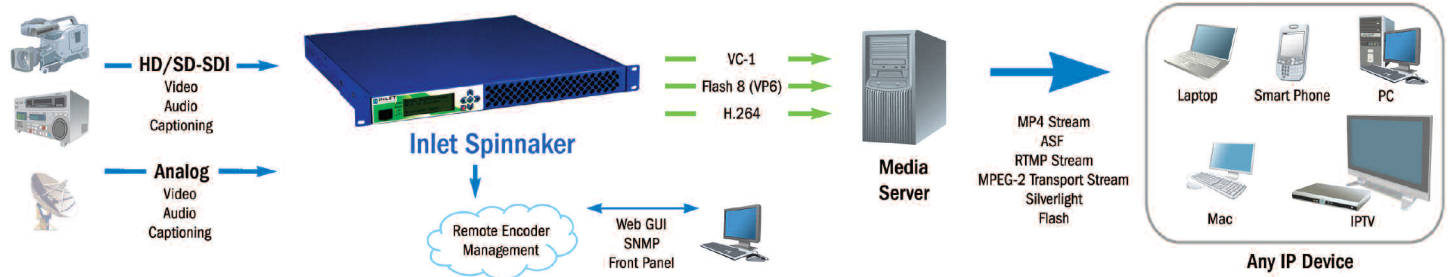
The Spinnaker™ family of advanced, live SD & HD encoding solutions enables content providers to reach new audiences through new media networks. This professional streaming solution delivers best-in-class quality for live media delivery applications such as live sports and other web streaming, PEG, broadband TV, IPTV, enterprise, education or government video.



Using state-of-the-art encoding enhancements and an advanced toolset, Spinnaker delivers the bandwidth performance and unique features necessary to provide a true broadcast experience over any IP network. It is a flexible, multi-format, scalable solution, supporting resolutions from mobile to web to television. Unlike other encoders on the market, Spinnaker supports H.264, VC-1 / Windows Media and Flash formats in one unit, and is optimized for delivery to both TV and a wide array of new media devices.

Spinnaker provides highly efficient device management through local, web and SNMP interfaces. Based upon Inlet's patent-pending technology platform, Spinnaker's core encoding software fully supports multi-bit rate for an optimized end-user experience; scheduling, to manage preset events with increased reliability; and alerts that pinpoint errors quickly and increase reliability of live broadcasts. With support for H.264, Windows Media and Flash, content providers can reach virtually any computer user.

Spinnaker is a multi-format, flexible and scalable solution, supporting resolutions from mobile to web to television



Spinnaker Advantages

- Best-in-class SMPTE VC-1, Windows Media, Flash 8 VP6 and H.264 advanced encoding
- Encoding enhancements optimized for IPTV system deployments
- Broad subscriber reach for content providers, using existing infrastructure
- Advanced toolset for new media applications:
 - Open Captioning for H.264, VC-1, and Flash 8 VP6
 - Closed Captioning (CEA 608, CEA 708, SAMI) for VC-1 & H.264
 - Multi-bit rate for VC-1
 - Multiple language support for applications such as SAP
 - Tier 1, 2 and 3 telco IPTV for VC-1
- Integrated system solution, compatible with middleware and set top box technology
- Full service support including field software updates
- Full remote network management via web, SNMP, and syslog

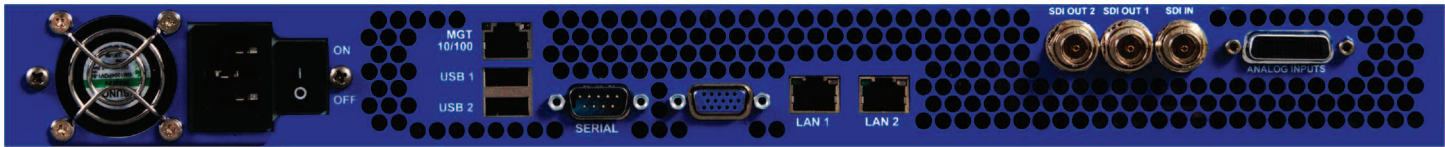
Extend Your Audience Reach

Spinnaker is a highly reliable, robust solution, with unique capabilities for new media broadcast over IP. With Spinnaker, service providers can meet IPTV regulatory requirements and deliver content to either television or mobile and PC-based devices, thus reaching broader audiences and increasing revenue potential.

Spinnaker Configurations

Model	Applications
S3000	Mobile and web streaming, PEG, enterprise, government and educational video
S3200	Two-channel version of Spinnaker S3000, for lower cost per channel
S5000	Simultaneous multi-format live event streaming, IPTV, backhaul, and over-the-top programming
S7000	HD Live events, sports, entertainment, backhaul, IPTV, and over-the-top programming

Available in four configurations, Spinnaker provides price/performance options for multiple delivery requirements



Encoder back panel

Spinnaker Features and Specifications

Inputs

Video

- NTSC, PAL
- SD/HD -SDI (BNC) – SMPTE 259M
- Composite (via 1 locking BNC)
- Component (via 3 locking BNC)
- S-video (via 2 locking BNC)

Audio

- 3 stereo pairs over SDI embedded (BNC)
- Stereo Balanced Audio (via 2 locking XLR connectors)
- AES

Codecs

- H.264/AVC Baseline, Main, & High Profiles
- Windows Media 9 (WMV3) – Simple, Main Profiles
- VC-1 (WVC1) – Simple, Main, Advanced Profiles
- Windows Media Audio
- Windows Media Audio Professional
- 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 (S5000 & S7000)

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

Processing

Pre-processing

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

Encoding

- Adaptive GOP
- Closed captioning via SAML and user data
- CEA 608/708 translation (S5000 & S7000)
- Interlaced and progressive modes
- Dynamic complexity balancing (VC-1)

Control

- Remote web-based
- LCD front panel
- Programmable encoding templates
- Local user interface
- SNMP

Physical and Power

Dimensions

- 1RU (S3000, S5000, & S7000)
- 2RU (S3200)
- 17" (w) x 18.1" (d) x 1.72" (h) (1RU)
- 17" (w) x 18.21" (d) x 3.47" (h) (2RU)

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) 350W (2RU)
- 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

Comparison of Spinnaker Models

Feature:	S3000	S3200	S5000	S7000
Real time SD	●	●	●	●
Real time HD				●
Simple, Main VC-1 Profiles	●	●	●	●
Advanced VC-1 Profiles			●	●
Flash 8 (VP6)	●	●	●	●
H.264/AVC			●	●
Channels	1	2	1	1
Progressive Output	●	●	●	●
Closed Captioning	●	●	●	●
Interlaced Output			●	●
IP Multicast Out (TS)			●	●
Job scheduling	●	●	●	●
SNMP management	●	●	●	●



Inlet Technologies

1121 Situs Court, Suite 330
Raleigh, NC 27606

phone: 919.856.1080

www.inlethd.com