



## Envivio Enterprise Series 4Sight

### MPEG-4 AVC/H.264 Video Server

#### Targeting Enterprise Television and Webcasting Applications

Envivio® 4Sight™ is an MPEG-4 video server that provides high availability, high performance video delivery for enterprise IPTV applications. 4Sight supports the wide range of advanced server features required for enterprise-class operation. Features supported include playlist creation to schedule broadcasts of video on demand (VOD) programming, VOD with efficient Trick Play content playout control, and reflection and relay of live streams. 4Sight is a result of 8 years of development of MPEG-4 based video streaming and is designed for maximum throughput and minimum downtime.

4Sight transports video reliably over networks and is the only server optimized for Pure IP\* delivery of rich, interactive MPEG-4 content. With its error resilience algorithms, 4Sight can guarantee content delivery on networks with up to 2% packet loss. The system also offers low latency content delivery for relay and reflection of live streams over unicast networks such as enterprise WANs and the Internet.

4Sight is a key component of Envivio solutions for the enterprise, and is offered in two storage configurations. The 4Sight S1 includes 146 GB of internal storage, while the 4Sight S2 includes 730 GB of storage and redundant power supplies. When paired with Envivio Broadcast and Enterprise series professional encoders and decoders, 4Sight is part of an end-to-end, interoperable solution for enterprise webcasting and IPTV.

### Features

- Supports all MPEG-4 video and audio formats as well as MPEG-4 Systems (Binary Format for Scenes) interactive content
- MPEG-4 AVC/H.264 video delivered natively via Pure IP\* transport mechanisms
- High error resilience providing total protection of content on IP networks with up to 2% packet loss
- Live channel relay and reflection
- Firewall bypass using HTTP tunneling
- Comprehensive and intuitive web-based system management interface and SNMP support
- Compliance with ISMA 2.0 and a reference server for ISMA interoperability testing



### Product Highlights

- High availability MPEG-4 video server
- Trick Play (play, pause, stop, fast forward and rewind) support for VOD assets
- Playlist broadcast capability for scheduled playout of content
- Open standard-based design with proven interoperability

### Applications

- Video on demand IPTV services to PCs and plasmas
- Live and on demand webcasting content delivery



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### Server Capabilities

#### Core Server

- MPEG-4 AVC/H.264 content natively delivered over RTP as defined by ISMA and DVB
- Error resilience on congested networks (up to 2% packet loss with reliable UDP streaming)
- IPv4 Multicast or Unicast
- Two levels of error resilience supported: reliable UDP, or TCP
- Firewall bypass using HTTP tunneling

#### Video on Demand

- On demand delivery of MPEG-4 AVC/H.264 content
- Trick play functions (play, pause, stop, fast forward and rewind)
- Customizable content access authorization

#### Broadcast

- ISMA MPEG-4 content playlist broadcast
- Live stream relay (translation of packet ports and addresses to other ports and addresses while maintaining synchronization)
- Live stream to video on demand content switching (reflecting)

#### Administration

- Web administration and monitoring
- SNMP monitoring (MIB)
- SSH
- Local administration

#### Protocols Supported

- TCP and UDP
- RTSP and RTP
- SAP and SDP
- IPv4
- IGMP v2
- SNMP v1 and v2
- NTP
- SFTP

### Hardware

#### System

- Dual Xeon 3.0 GHz/800 MHz, 2 MB L2 cache
- Memory – 2.048 GB
- Ethernet – 2 x 10/100/1000

#### Storage

High speed, high availability drives in RAID 5 configuration

- 4Sight S1 – 146 GB (2 + 1 x 73 GB drives)
- 4Sight S2 – 730 GB (5 + 1 x 146 GB drives)

#### Physical

- Width: 443.6 mm (17.5 in)
- Depth: 698.0 mm (27.5 in)
- Height: 85.4 mm (3.36 in)
- Weight: (62 lb)

#### Electrical

- 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 8.5 A
- 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 4.5 A
- Max Btu output: 2840 Btu/hr (830 watts)
- Noise level (horizontal position): 6.6 bels (operating)

#### Operating environment

- Temperature: Server on
  - 10.0° to 35.0°C (50° to 95°F) at 0 to 914.4 m (0 to 3,000 ft)
  - Decrease system temperature by 0.75°C for every 1,000 feet increase in altitude.
- Temperature: Server off
  - 10° to 43°C (50.0° to 109.4°F)
- Temperature: Shipment
  - -40° to 60°C (-40° to 140°F)

### Ordering Information

4Sight S1 – 146 GB Storage with single power supply

4Sight S2 – 730 GB Storage with dual, hot swappable power supplies

\* Pure IP transports raw elementary streams directly over RTP/UDP rather than first embedding them within an MPEG-2 Transport Stream (TS). IP-based broadcasting has been adopted by the DVB (Digital Video Broadcasting) and ISMA (Internet Streaming Media Alliance) standards bodies. Pure IP offers higher bandwidth efficiency and more robust transport of video and audio signals over IP networks than MPEG-2 TS over IP.

### For More Information

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