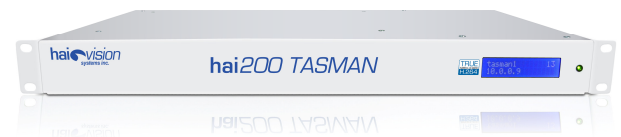


## Low Latency, High Resolution A/V at less than 1 Mbps!

HaiVision's **TASMAN** is the ultimate network video appliance designed for performance, flexibility and value. Based on H.264 video compression technology (known also as MPEG-4 AVC) the **TASMAN** delivers highly efficient video performance over a broad range of bit rates - from engaging high resolution, interactive "talking heads" at 700 kbps to crystal clear broadcast quality at 1.3Mbps to fluid, full motion video at SIF resolution and 256kbps - all at 30 frames per second with perfect audio sync. HaiVision's TRUE H.264 video compression delivers DVD quality network video at more than a 60% reduction in bandwidth required by traditional MPEG-2 based systems.

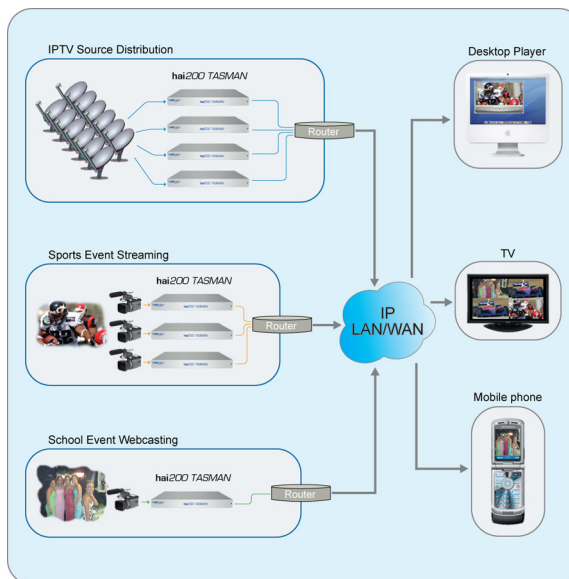
From HaiVision, the market leading vendor of high performance network video systems for telepresence, corporate, education, medical and IPTV applications, the **TASMAN** is designed for performance streaming of high quality A/V at the best price-performance value available today.

The **TASMAN** is the ideal system for point to point communications, video backhaul, or video broadcast and streaming. The **TASMAN** achieves an industry leading sub-200 millisecond latency allowing integrators to deliver compelling communications systems or to address mission critical video delivery. The **TASMAN** supports industry standards, with proven inter-operability with standards based Set Top Boxes and Soft Players. Offering the most efficient quality to bandwidth compression available, the **TASMAN** delivers clear and consistent high resolution video rendering of every motion and nuance of the picture and clear, precise stereo audio.



### Audio / Video

- Encoder or encoder/decoder configurations
- HaiVision TRUE H.264 MPEG-4 AVC compression core
- Full motion, full frame rate high resolution
- 4:3 or 16:9 aspect ratio
- Full resolution D1, also CIF, HHR, HVR
- Flexible video input: Composite and S-Video
- Super wide band audio from 20Hz to 22kHz, Balanced XLR or RCA
- Audio encoding from 64 to 256 kbps



### Networking and Control

- Flexible API for 3rd party integration
- Intuitive User Interface
- Advanced control features including auto-discover, presets and confidence viewer
- Optional built-in decoder (Communicator) for Low Latency End to End
- Transport Stream for Set Top Box compatibility
- Unicast and Multicast streaming
- Consistent, controlled bandwidth

### COMMUNICATIONS

Joining rooms or facilities together seamlessly to create compelling, unified communication environments

### VIDEO BACKHAUL

Looking for low cost, easy maintenance methods for aggregating high quality audio/video to a central location

### PERFORMANCE STREAMING

Establishing point to point or multipoint audio video feeds with performance and quality a critical concern

## HaiVision TRUE H.264 Compression Core

H.264 (also called MPEG-4 AVC or MPEG-4 Part 10) is the first video compression standard jointly issued by ITU and MPEG (ISO/IEC) designed for both interactive and programmed video delivery over a full spectrum of bit rates. It has eclipsed the previous MPEG-4 Part 2 standard in terms of resolution, bandwidth stability and compression ratio, and saves over 60% of the bandwidth required by MPEG-2 for DVD quality video.



With the **TASMAN**, integrators can present affordable network video solutions. A T1 (1.5 Mbps) is fully sufficient for very high quality “talking head” video. A dual (or bonded) T1 will deliver DVD quality accomodating the most “action packed” video. Even at video bit rates as low as 500 kbps, the TASMAN delivers remarkable, full resolution, full frame rate video, with crystal clear audio perfectly in sync.

## Configuration Guide

The **TASMAN** is available in two basic configurations to address specific needs:

S-200E	<i>TASMAN Streamer</i>	Encoder With S-Video And Composite Video In, Stereo Analog Audio
S-200ED	<i>TASMAN Communicator</i>	Encoder / Decoder With Composite And S-Video Stereo Analog Audio In And Out

Should you require digital video and audio, please refer to HaiVision's **TASMAN Digital** product family.

## Specifications - **TASMAN**

### VIDEO ENCODING / DECODING

#### Signal

S-Video 4-pin Mini-DIN  
Composite 75Ω BNC

#### Compression Standard

MPEG-4 AVC (Part 10)/H.264  
ISO/IEC 14496-10  
Baseline & Main Profiles  
Level 3.0 and lower Intermediate Levels  
I, IP, IBP, IBBP, IBBBP framing

#### Resolutions NTSC/PAL

Full-D1 720x480/576  
Half-D1 352x480/576

#### Latency

As low as 180ms (encoder)

#### Bit Rates

From 150 kbps to 2Mbps

#### Traffic Shaping

Constant (CBR)  
Variable (VBR)  
Average (ABR)

#### Group of Pictures

Variable GOP size  
w. Intra-frame insertion at scene cut

#### Filtering

Advanced & Variable De-Blocking Filter

### AUDIO ENCODING/DECODING

#### Signal

2 analog audio channels – in (RCA or XLR)  
2 analog audio channels – out (RCA or XLR)  
Specify RCA or XLR when ordering.

#### Compression Standard

MPEG-4 AAC-LC  
ISO/IEC 14496-3

#### Bit Rates

From 64 to 256 kbps

### NETWORK INTERFACES

#### Standard

Ethernet 10/100 Base-T, auto-detect  
Half/Full-duplex

#### Connector

RJ45

#### Protocols

Transport Stream over UDP/RTP  
Transport Stream over RTP/RTCP  
Direct RTP mode (RFC 3984)  
RTP/RTCP  
Unicast / Multicast (IGMPv2)  
HTTP (built-in web server)

#### Connectivity

Internal Web Server

### CONTROL INTERFACE

#### Web-based User Controls

Layered access controls from presets to granular settings

Advanced features set including stream presets, embedded viewer and performance stats  
On-line complete user documentation

#### Control API

Open, documented HTTP commands

### PHYSICAL

#### Dimensions

432 mm x 89 mm x 483 mm (W x H x D)  
19" rackmount bracket included

#### Weight

16Kg

#### Power Requirements

90 – 260V AC / 50 – 60 Hz  
125W max

#### Temperature

0° to 50°C operating  
-20° to 80°C storage

#### Relative Humidity

Up to 90% non-condensing

#### Certification

UL/CSA/CE  
FCC Part 15, Subpart B, Class A

HaiVision Systems Inc.  
4445 Garand  
Montréal, QC, H4R 2H9  
Canada  
Tel: (514) 334-5445 Fax: (514) 334-0088  
sales@haivision.com

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