



Corporate Presentations, Classrooms, Medical Procedures The Viper™ is a compact, completely integrated platform for capturing, streaming, reviewing, transcoding, distributing and publishing rich, multi-stream high definition content. The Viper is available as a standalone appliance which can be paired as a content contributor to the Furnace™ IP video distribution system and Haivision Video Cloud. The Viper combines the power of dual-channel real-time HD H.264 encoding, performance recording, a streaming server, a multi-stream player manager, and a video-on-demand server, in a single appliance with simple touch operation.

Dual Channel HD for Rich Media Situational training, skills assessment, advanced instruction and detailed presentations rely on a combination of live speakers, media-rich presentations, and real-time videos, as well as information from software that creates spreadsheets, computer-aided design tools and simulators. In order to effectively transmit the in-room presentation experience live via IP video streaming, or to review the experience on-demand at a later time, both the live camera and the associated real-time media display must be available to out-of-room viewers.

One-Touch Operation - Record, Review, Stream, Publish With Viper, setting up, streaming, recording, and publishing your rich media event has never been easier. Without the need to rely on any central server infrastructure and without any endpoint player to install or specific browser technology required, a single operator can deliver multiple streams of HD throughout a facility or across a campus with a few simple taps on the Viper's touchscreen. A simple link is all you need to securely enable any user with real-time, multi-stream live or on-demand synchronized HD.

Product Features

Product Benefits

Complete streaming system	No need for separate infrastructure, serves live and on-demand multi-stream directly
Dual stream synchronized HD	Capture & stream events in full context
Live Internet streaming	Broadcast live streams to a CDN running over Akamai 1stGen - HD2 or Flash Media Server, via RTMP
Cloud integration	Share content created on the Viper into the Haivision Video Cloud
Graphics content captured at full frame rate	Fluid replay of rich media presentations
Graphics captured through VGA/DVI	Capture content on any computer in real-time (not just PowerPoint®)
Restful API	Extend Viper's recording, streaming, publishing commands to 3rd party control panels
Onboard file transcoding	Take a Viper asset and make an AVI, WMV, MOV or MP4 and then save it to USB
Streamline touchscreen interface	Be one click away from recording and streaming - user-centric, simple-to-use interface
Secure, "zero install" InStream player	No endpoint viewing software to install, cross-platform consistent media delivery
Flexible multi-stream layouts	Administrators/users determine how to best view the rich media, multi-stream live or on-demand
Furnace compatible realm device	Fuel a central Furnace IP video system with user-generated content
Fully secure media distribution	Establish standalone conditional access or inherit user privileges from the Furnace
Inputs captured as independent streams	Presenter does not need to be concerned with layout decisions

AV INPUT SPECIFICATIONS

Video (Inputs):

- 2 x DVI-I
 - Y, Pb, Pr / RGBHV component analog
 - Y, Cb, Cr / DVI component digital
- S-Video NTSC/PAL
- Composite NTSC/PAL
- SD-SDI SMPTE 259M-C
- HD-SDI SMPTE 292M, 274M, 296M
- 3G-SDI SMPTE 424M, 425M

Video Resolutions:

- 1920x1080p 60/59.94/50/30/29.97/25 Hz
 - 1920x1080i 60/59.94/50 Hz
 - 1280x720p 60/59.94/50/30/29.97/25 Hz
 - 1280x720p 60/59.94/50/30/29.97/25 Hz
 - 720x480/576p 60/59.54/50 Hz
- (interlaced shown in fields per second)

Computer Resolutions:

- 1920x1080 60 Hz *
- 1280x1024 75/60 Hz *
- 1280x768 85/75/60 Hz
- 1280x720 60 Hz
- 1024x768 85/75/60 Hz

Audio (Input):

- 1/8" (3.5mm) Mini
 - Unbalanced stereo analog audio
- XLR
 - Balanced stereo analog audio
- RCA Audio
 - Unbalanced stereo analog audio
- SDI Embedded Audio
 - SDI-1-2 and SDI 3-4

* Dual stream high resolution (1080p) must fit within a 60 fps total budget.

AV OUPUT SPECIFICATIONS

Video (Outputs):

- HDMI: 1920x1080
- VGA: 1920x1080

Audio (Output):

- 1/8" (3.5mm) Mini
 - Unbalanced stereo analog audio

ADVANCED FEATURES

- Dual quality streaming
- HD/SD de-interlacing
- Built-in downscaling
- Deblocking filter
- Color space configuration (DVI) (Auto Detect)

VIDEO ENCODING

- Compression Standard:
 - H.264 (MPEG-4 AVC part 10)
 - ISO/IEC 14496-10

Baseline Profile

- Level 4.2 and lower intermediate levels
- I, IP framing
- Configurable Group of Picture (GOP) size
- Configurable frame rate

Bitrates:

- SD/HD from 150 kbps to 15 Mbps

Rate Control:

- VBR

Latency (encode only):

- Less than 100ms

AUDIO ENCODING

- Compression Standard:
 - MPEG-2 AAC-LC ISO/IEC 13818-7
 - MPEG-4 AAC-LC ISO/IEC 14496-3

Audio Channels:

- 2 per video channel

Bitrates:

- From 32 to 448 kbps per audio pair

Frequency Response:

- From 20 Hz to 22 kHz

IP NETWORK INTERFACES

Standard:

- 2x Ethernet 10/100/1000 Base-T, auto-detect, Half/Full-duplex

Connector:

- RJ45

Networking Protocols:

- Unicast streaming
- Multicast streaming (IGMP v3)
- MPEG transport stream over UDP
- RTMP

MANAGEMENT INTERFACE

Management:

- HTTPS (Web browser)
- LCD Touchpanel
- HTTPS (REST API)

PHYSICALS

Dimensions :

- 108mm H x 219mm W x 267mm D

Weight:

- 10 lbs. Approx.

Power:

- 100-240VAC external locking power supply

Temperature:

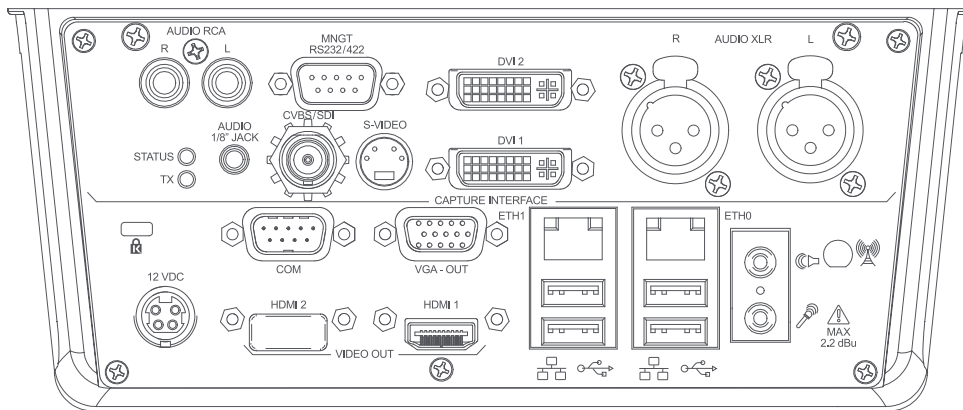
- Operating: 0C to 50C
- Non-operating: -40C to 70C

Humidity:

- Up to 95% non-condensing.

Storage:

- 750GB SATA 3Gb/s



Viper

Viper Product Portfolio & Ordering Information **

Viper

S-VI-MAX

Viper - For standalone use with an integrated InStream server or with a central Furnace system. Dual HD stream, record, VOD, publish appliance. Conditional Access module sold separately.