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.

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

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

**Video (Inputs) - connector:**
- S-Video NTSC/PAL
- Color space configuration (DVI) (Auto-Detect)
- RJ45
- Composite NTSC/PAL

**Networking Protocols:**
- SD-SDI SMPTE 259M-C
- Unicast streaming
- HD-SDI SMPTE 292M, 296M
- Video Resolutions: 1920x1080p 60/59.94/50/25 Hz

**Audio (Input):**
- 1/8" (3.5mm) Mini
- Balanced stereo analog audio
- XLR
- Unbalanced stereo analog audio
- RCA Audio
- S/PDIF and SDI 1-2

**Audio (Input) - bitrates:**
- Unbalanced stereo analog audio
- up to 95% non-condensing.

**SDI Embedded Audio**
- From 32 to 448 kbps per audio pair

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

### AV OUTPUT 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

**Level:**
- 4.2 and lower intermediate levels
- 1, IP framing

**Configureable Group of Picture (GOP) size**
- Configurable frame rate

**Bitrates:**
- SD/HD from 150 kbps to 15 Mbps
- Rate Control:
  - VBR
  - Less than 100ms

### PHYSICALS

**Dimensions:**
- 108mm H x 219mm W x 267mm D
- Weight: 10 Ibs. 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 Product Portfolio & Ordering Information **

**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.

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**Viper S-VI-MAX**

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