Features

- Companion receiver for Polycoder™ h/HD-SDI 2-16ch IP, but tested compatible with third party encoders
- Supports both HD and SD H.265/HEVC, H.264/MPEG-4 AVC, or MPEG-2 decoding
- Input: Bursty or Smooth IP
- Outputs: 1 to 16 channels of SDI and HD-SDI
- Optional 16 HDMI outputs instead of SDI/HD-SDI outputs
- Security scanned for vulnerabilities
- IP Input protocols: HTTP Live (HLS), UDP, RTP, RTSP, HTTP, RTMP (pushed from Flash server)
- Supports H.264 High Profile @ Level 4.0 (HP@L4)
- Supports MPEG-2 as well
- Supports 1080p60, 1080i, 720p, 480i, 480p, CIF, QCIF, qHD, H.264 up with 29.97 or 59.94 and many others, and custom resolutions
- Supports HDTV output formats SMPTE-274M/SMPTE296M-2001, ITU-R BT.656
- Color Space: 4:2:0 for H.264, H.265, MPEG-2
- Audio Input: AAC, MPEG-1 Layer II, optional MP3, and/or optional “SurCode for Dolby Digital” AC-3
- Audio Output: Embedded pass-through
- Remote GUI includes some scheduling
- SNMP, REST, SOAP support for remote management and monitoring
- Supports Cameras, Encoders, Streamers, NVR’s, etc.
- Supports MPEG-2, MPEG-4, H.264, MJPEG via NTSC and PAL
- Supports Octoshape™ Client on GUI

Applications

- Streaming video from remote sites from RTMP, RTSP, or HTTP compatible sources such as IP cameras or YouTube®
- Converting IP streams to HD-SDI wherever they may come from
- Feeding Live IP Camera Views or other streams into Multiviewers from Miranda, Jupiter Systems, and RGB Spectrum, etc.
- IP Camera Decoder
- Axis IP camera decoder
- Broadcast Decoder with Genlock
- Decoding H.264, H.265, MPEG-2

Overview

Streaming video via Flash, HLS, or RTSP has emerged as a very efficient methodology for delivering SD and HD content over the public internet. It occurred to us that there are not many decoders/receivers that decode incoming "wrapped" streams to HD and SD/SDI. The D-Streamer IP/DIG 1-16ch is designed to address this need and deliver a professional quality d-streaming and decoding device for the public internet.

The D-Streamer IP/DIG 1-16ch is a real time H.264, H.265, or MPEG-2 decoder that receives IP transport streams and decodes them to up to sixteen channels of SDI or HD-SDI. It accepts a wide variety of IP protocols, wrappers, and containers but is highly tuned for HLS and RTSP.

The system is ideal for converting IP streams from anywhere into SDI or HD-SDI streams. Broadcasters and content providers can use our MultiStreamer™ DIG/IP to encode SDI or HD-SDI to H.264 IP or H.265, then decode the streams with the D-Streamer IP/DIG 1-16ch. This embedded Linux® based unit is designed to be affordable, scalable, and extendable. Modifications to video formats are easily created. Remote management and multi level security is built in.

DVEO’s "DOZERTM" provides automated UDP Packet Recovery Technology and can be added to the D-Streamer to achieve error-free real-time video delivery to MSO, cable operator, Affiliate, or regional head ends when paired with a DOZER equipped encoder.
**Inputs/Outputs**

<table>
<thead>
<tr>
<th>IP Management Port</th>
<th>IP Input</th>
<th>4, 6, 8, 12, or 16 SDI/HD-SDI Outputs</th>
<th>PS 1</th>
<th>PS 2</th>
</tr>
</thead>
</table>

**Sample of GUIs**

**System Status**

**Scheduled IP Input Setup**

**HD-SDI Output Setup**

**Specifications**

### Supported Resolutions – Input

<table>
<thead>
<tr>
<th>Resolution</th>
<th>1920 x 1080</th>
<th>1280 x 720</th>
<th>720 x 576</th>
<th>480 x 480</th>
<th>qHD</th>
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</thead>
<tbody>
<tr>
<td>720 x 480</td>
<td>640 x 480</td>
<td>320 x 240</td>
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<td>704 x 480</td>
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<td>320 x 240</td>
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</tbody>
</table>

Also supports any custom resolution not listed here. Note: Supports closed captions.

### IP Input

- **Input**: Dual 10 Gigabit Ethernet port (RJ45) or optional fiber
- **Audio Input**: AAC, MPEG-1 Layer II, optional MP3, and/or optional “SurCode for Dolby Digital” AC-3
- **Input “wrappers”**: HTTP Live (HLS), UDP, RTP, RTSP, HTTP, RTMP (pushed from Flash server), Octoshape™
- **Type**: IP-multicast, IP-unicast
- **Remote Setup – IMPORTANT**: User may need to assign static IP or provide access to router

### SDI/HD-SDI Outputs

- **Video**: Up to 16 SDI or HD-SDI (Blackmagic) outputs, with Genlock
- **Audio**: Embedded pass-through
- **Resolutions**: Up to 1080p60

### Administration

- **Access**: Web interface, SSH (Secure command line interface)
- **SNMP**: Monitoring and alerts
- **Scheduling**: On, Off support for timeslots

### CPU and Operating System

- **CPU**: Intel® Dual 16 Core processor
- **OS**: DVEO embedded Linux® on SSD

### Physical & Power

- **Size --**: 19 x 5.25 x 25.2 inches (W x H x D)
  48.26 x 13.34 x 64 cm (W x H x D)
- **Power Supply**: 3U 500–600W – Redundant
  2U Mini Redundant 300–650W
- **Temperature Range**: Operating: 0°C ~ +50°C on Full Load
  Storage & Shipping: -20°C ~ +70°C
- **Non-operating Humidity**: 5% to 95% non-condensing
- **Conformities**: UL, BSMI, CSA, FCC, CE, RoHS
- **Weight**: 39 lbs. (17.69 kg)

### Security

- Ports security scanned to MIL requirements prior to shipment

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**Ordering Information**

- D-Streamer IP/DIG 1-16ch – 1 to 16 SDI/HD-SDI outputs
- D-Streamer IP/HDMI 1-16ch – 1 to 16 HDMI outputs with adapters
- D-Streamer IP/DIG 1-16ch +DOZER
  - Option: Fiber SFP input

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