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 one 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 "DOZER™" 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

- IP Management Port
- IP Input
- 4, 6, 8, 12, or 16 SDI/HD-SDI Outputs
- PS 1
- PS 2

Sample of GUIs

- System Status
- Scheduled IP Input Setup
- HD-SDI Output Setup

Specifications

Supported Resolutions – Input

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Input 1</th>
<th>Input 2</th>
<th>Input 3</th>
<th>Input 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920 x 1080</td>
<td>720 x 480</td>
<td>480 x 480</td>
<td>qHD</td>
<td></td>
</tr>
<tr>
<td>1280 x 720</td>
<td>704 x 480</td>
<td>480 x 320</td>
<td>H.264up</td>
<td></td>
</tr>
<tr>
<td>720 x 576</td>
<td>640 x 480</td>
<td>320 x 240</td>
<td></td>
<td></td>
</tr>
</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™ Optional DOZER patented UDP packet recovery technology
- 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 --
  - 3 RU high: 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

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