Features

- Supports both HD and SD H.265/HEVC, H.264/MPEG-4 AVC, or MPEG-2 decoding
- Input: Bursty or smooth IP
- Outputs: SDI/HD-SDI and/or IP (no transcoding)
- Optional HDMI output instead of SDI/HD-SDI output
- 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
- Supports 1080i, 1080p30, 720p, 480i, 480p, QCIF, H.264 up with 29.97 or 59.94 and many others, and custom resolutions
- Color Space: 4:2:0 for H.264, H.265, MPEG-2
- Audio Input: AAC, MPEG-1 Layer II, optional MP3, or optional “SurCode for Dolby Digital” AC-3
- Audio Output: Embedded pass-through
- Remote GUI includes some scheduling
- Can be used to store or time-delay incoming stream with optional storage add-on
- SNMP, REST, SOAP support for remote management and monitoring
- Relies on Intel® Xeon® processor
- 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 into Multiviewers from Jupiter Systems and RGB Spectrum, etc.
- IP Camera Decoder
- Axis IP camera decoder
- Octoshape™ end point
- 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™ 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 is a real time H.264 or MPEG-2 decoder that receives IP transport streams and decodes them to 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. 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

**Standard Version**
- IP Management Port
- IP Port
- SDI/HD-SDI Output with Genlock

**4 Channel Telco Version**
- 2 each One GigE Ports
- Dual Power Supplies
- 2 each Genlock
- 10 GigE Ports
- SDI/HD-SDI Outputs

**Sample of GUIs**

**Ordering Information**
- D-Streamer IP/DIG: Basic unit
- D-Streamer IP/HDMI: HDMI output, 1 RU system
- D-Streamer IP/DIG+DOZER: 1 RU
- D-Streamer IP/DIG TELCO – Dual power supply, 2 Gig/E ports, 2 10 Gig ports, 4 inputs for redundancy

### Specifications

#### Supported Resolutions – Input
<table>
<thead>
<tr>
<th>Resolution</th>
<th>Input</th>
<th>SDI/HD-SDI</th>
<th>IP Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920 x 1080</td>
<td>720 x 480</td>
<td>480 x 480</td>
<td></td>
</tr>
<tr>
<td>1280 x 720</td>
<td>704 x 480</td>
<td>480 x 320</td>
<td></td>
</tr>
<tr>
<td>720 x 576</td>
<td>640 x 480</td>
<td>320 x 240</td>
<td></td>
</tr>
</tbody>
</table>

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

#### IP Input
- **Input:** Single Channel Gigabit Ethernet port (RJ45)
- **Audio Input:** AAC LC, 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 Output
- **Video:** SDI or HD-SDI (Blackmagic) with Genlock
- **Audio:** Embedded pass-through
- **Resolutions:** Up to 1080p30

#### IP Outputs
- **Output Formats:** H.264, MPEG-2, or H.265, up to 1080p 30
- **Output Protocols:** UDP, RTP, RTMP, HTTP, HTTP Live (HLS)
- **Bit rate:** Up to 400 Mbps IP raw output capability
- **Ethernet:** Up to 2 x 1 GigE
- **Type:** IP-multicast, IP-unicast
- **Video:** NTSC or PAL

#### 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® Xeon® processor
- **OS:** DVEO embedded Linux® on SSD

#### Physical & Power
- **Size – 1 RU (W x D x H):** 19 x 14.96 x 1.7 inches (483 x 380 x 43.4 mm)
- **Voltage:** 100-240V, 4-2A, 60-50 Hz, 220 watts
- **Operating Temperature:** 10°C to 35°C
- **Non-operating Humidity:** 20% to 90% non-condensing
- **Weight:** 15 lbs. (6.8 kg)
- **Conformities:** UL, BSMI, CSA, FCC, CE, RoHS

#### Security
- Ports security scanned to MIL requirements prior to shipment

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