Features

- Supports both HD and SD H.265/HEVC, H.264/MPEG-4 AVC, or MPEG-2 decoding
- Input: Bursty or smooth IP
- Output: MPEG-2 over ASI and/or IP
- Security scanned for vulnerabilities
- IP Input protocols: HTTP Live (HLS), UDP, RTP, RTSP, HTTP, RTMP (pushed from Flash server)
- Supports input and output resolutions of 1080i, 1080p, 720p, 480i, 480p, CIF, QCIF, and qHD
- Audio Input: AAC, MPEG-1 Layer II, optional MP3, or optional “SurCode for Dolby Digital” AC-3
- Audio Output: MPEG-1 Layer II or optional Dolby® AC-3
- 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

Applications

- Converting IP streams to DVB-ASI wherever they may come from
- IP Camera Decoder for cable head ends
- H.265 or H.264 to MPEG-2 with ASI for cable head ends
- H.265 or H.264 streaming to Cable Head Ends
- H.265 or H.264 to MPEG-2 transcoder
- Decoding H.264, H.265, MPEG-2

Overview

Streaming video via Flash, HLS, or RTSP has emerged as a very reliable and efficient methodology for delivering SD and HD content over the public internet. It occurred to us that there are not many transcoders that convert incoming "wrapped" streams to MPEG-2 over DVB-ASI. The D-Streamer™ IP/ASI is designed to address this need and deliver a professional d-streaming and decoding device targeted at cable system operators.

The D-Streamer IP/ASI is a real time H.264 transcoder that receives streamed H.264 IP or H.265 transport streams and transcodes them to MPEG-2. It accepts a wide variety of IP protocols, wrappers, and containers but is highly tuned for HLS and RTSP.

The unit is ideal for converting IP streams from anywhere into ASI formats for re-use by broadcasters and cable companies.

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 patented "DOZER" technology 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.
## Inputs/Outputs

### Standard Version

<table>
<thead>
<tr>
<th>IP Management Port</th>
<th>IP Input</th>
<th>DVB-ASI Output</th>
</tr>
</thead>
</table>

### Telco Version

2 each One GigE Ports

<table>
<thead>
<tr>
<th>Dual Power Supplies</th>
<th>2 each 10 GigE Ports</th>
<th>DVB-ASI Output</th>
</tr>
</thead>
</table>

## 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>720 x 480</th>
<th>480 x 480</th>
<th>480 x 320</th>
<th>320 x 240</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: Supports closed captions.</td>
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</table>

### IP Input

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

### DVB-ASI Output

- Output: DVB-ASI, 200 Mbps
- Bit rates: Multiple MPEG-2 video streams at different bit rates (.1 to 15 mbps)
- Audio: MPEG-1 Layer II, Optional AC-3

### 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 high: 19 x 14.96 x 1.7 inches (W x D x H)
- 483 x 380 x 43.4 mm (W x D x H)
- 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

## Sample of GUIs

### Network Setup

### Scheduled IP Input Setup

## Ordering Information

D-Streamer IP/ASI in 1 RU system
D-Streamer IP/ASI – RED – As above with dual redundant power supplies
D-Streamer IP/ASI+DOZER

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