Features

- Supports HD encoding and decoding – optional H.265 available
- Inputs: Either one HD-SDI input or one HDMI input, plus one GigE IP
- Outputs: Multiple simultaneous IP streams through GigE port (RJ45), HD-SDI video loop through
- IP output protocols: UDP, RTP
- Supports 608 and 708 Closed Captioning
- Supports High Profile @ Level 4.0 (HP@L4)
- Supports 1080i, and 1080p
- Expects embedded SDI audio
- Audio Output: MPEG-1 Layer II
- Support for Variable Bit Rate (VBR) encoding maximizes adaptive streaming video quality and bandwidth efficiency
- Web GUI is manageable from anywhere – includes some scheduling
- SNMP, REST, SOAP support for remote management and monitoring
- Option: Supports Streaming Live and to Local HD or SSD via STREAMBUCKET™ option

Features

- Multi campus churches
- Interviewing people
- Multi-location education
- Video conferencing
- UAV’s
- Military situation awareness

Summary

Real time, professional grade, 1 RU, quick starting, standards compliant, embedded Linux® based, remotely manageable, HD digital video and delivery appliance with UDP out. Runs on an Intel® Xeon® CPU. Input can be either HD-SDI or optional HDMI. Application runs on a "Minimal" UBUNTU Linux® kernel. A friendly management user interface (GUI) is used for setup and configuration and can be run from anywhere via the public internet. Different configurations are savable at any time.

The Ultra BD HD/IP/HD is a bidirectional HD encoder/decoder/streamer for 2 way communications in real time, with a one second end to end delay. IP output supports closed captioning.

With the Intel® Xeon® processor we can encode and decode HD streams. Audio output is MPEG-1 Layer II. Each stream is encoded with Medium Profile H.264 at .1 to 15 Mbps, or optional H.265. The unit can also redirect copies of outbound streams to multiple locations without extra CPU overhead. Supports stream scheduling and archiving option.

Overview

Inexpensive high volume hardware platforms combined with highly enhanced open source Linux® based software offer great value to all willing to embrace the future. We offer high performance streaming solutions that are based on open source libraries. We enhance the libraries by rewriting critical sections to obtain outstanding reliability and throughput.

This 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.
Application Example

Sample of GUIs

Inputs and Outputs

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**Supported Resolutions**

<table>
<thead>
<tr>
<th>Supported Resolutions – Input and Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920 x 1080</td>
</tr>
<tr>
<td>1280 x 720</td>
</tr>
<tr>
<td>720 x 576</td>
</tr>
</tbody>
</table>

Also supports any custom resolution not listed here.

Note: Does not support 608 closed captioning for SDI input. Only 708 is supported.

Note: Does not support closed captioning for HDMI inputs.

Note: Supports PAL to NTSC conversion but not NTSC to PAL.

H.265 output resolutions supported are 1080, 720, 576, 480.

H.265 576/480 resolutions only have 4:3 aspect ratio.

**CDNs Tested With:**

1. Akamai*
2. Limelight
3. Tata
4. Octoshape
5. CDNetworks
6. Internap
7. Highwinds
8. Verizon*
9. Ustream*
10. Mirror Image
11. Tulix*
12. More to come!

*Certified

**Options**

- Optional H.265 encoding and decoding
- Live and Local Storage: STREAMBUCKET™
- HDMI input and output: Available as an option instead of HD-SDI input
- Optional DOZER™ Automated UDP Packet Recovery protocol, enabling error-free video delivery over UDP. DOZER ensures smooth MPEG-2, H.264, and optional H.265 delivery through DVEO patented algorithms for automated packet recovery and re-ordering of out-of-sequence packets.

**Ordering Information**

Ultra BD HD/IP/HD in 1 RU system
Ultra BD HDMI/IP/HDMI – HDMI In, 1 RU system

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