

D-Streamer IP/DIG™ (mini)

Real Time, 1 RU, Quick Starting, Embedded Linux® Based, Remotely Manageable, Auto Detection of SD or HD, H.264/AVC Video and Audio Decoder for Receiving Live Streams with Most Any Protocol IP Input. Supports HLS, HTTP, RTSP, HTML, WMV9, or RTMP (Open Flash) In and Converts the H.264 AVC Compressed Digital Video and Audio into Professional Digital SDI or HD-SDI Output, or Optional HDMI Out. Audio Support for AAC or Ogg Vorbis. Decodes at .1 to 15 Mbps. Ideal Decoder for Receiving and Decoding of Streaming Video from Remote Sites, Content Delivery Networks (CDNs), or IPTV Compatible Appliances or Players. Tested to Work Over Public Internet, WiFi and Other RF Backbones.



Features

- Companion receiver for MultiStreamer DIG/IP™
- Supports both HD and SD H.264/ MPEG-4 AVC decoding, with auto detection
- Input: IP (H.264, MPEG-2, or VC-1)
- Output: SDI and HD-SDI
- Optional HDMI output instead of SDI/HD-SDI output
- Supports IP unicast or multicast
- IP Input protocols: HTTP Live (HLS), UDP, RTP, RTSP, HTTP, RTMP (Open Flash), MMS
- Support for all 3 flavors of segmented streaming: Apple® HTTP live, Windows® HTTP smooth, and Flash HTTP dynamic. Can receive streams from Apple® and Android devices as well as Silverlight and Flash Clients.
- Supports H.264 High Profile @ Level 4.0 (HP@L4)
- Supports 1080i, 1080p, 720i, 720p, 480i, CIF, QCIF, qHD, H.264up and many others, and custom resolutions
- Supports HDTV output formats SMPTE-274M/ SMPTE-296M-2001, ITU-R BT.656
- Built-in SSL VPN client for secure transport of streams across the internet or for traversing complicated networks. The tunnel is based on OpenVPN and it works for both multicast and unicast traffic.
- Audio Input: AAC, Embedded pass-through, Ogg Vorbis, optional MP3, or optional “SurCode for Dolby Digital” AC-3
- Audio Output: Embedded pass-through
- Configure and operate via Remote GUI
- Can be used to store or time-delay incoming stream with optional storage add-on
- SNMP remote management with low power consumption due to Sandy Bridge Intel CPU

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.

Overview

Streaming video via Flash 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 Flash wrapped streams to HD and SD/SDI. The Streamer IP/DIG™ is designed to address this need and deliver a professional decoding device for the public internet.

The D-Streamer IP/DIG is a real time H.264 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, 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.

The D-Streamer IP/DIG is also available with a real time store and forward – time delay – option. It can store IP transport streams and play them out as SDI or HD-SDI at a scheduled date and time.

If you do not have a static IP address, to assist you for quick setup we have a preconfigured Cisco router available for \$300.00.



Computer Modules, Inc.

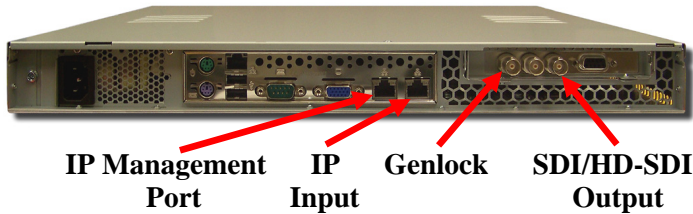
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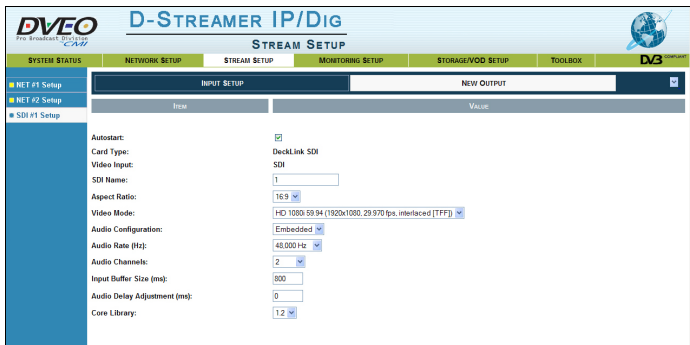
Inputs/Outputs



Sample of GUIs



Input Setup



Output Setup

Ordering Information

- D-Streamer IP/DIG in 1 RU system
- D-Streamer IP/DIG/SF (Store and Forward) in 3 RU system with real time store and forward (time delay) option
- D-Streamer IP/HDMI – HDMI output, 1 RU system
- CSCO – RTR: Optional pre-configured Cisco® 4 port Gigabit router

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Specifications

Supported Resolutions – Input

1920 x 1080	720 x 480	480 x 480	qHD
1280 x 720	704 x 480	480 x 320	H.264up
720 x 576	640 x 480	320 x 240	

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

IP Input

Input:	Single Channel Gigabit Ethernet port (RJ45)
Audio Input:	AAC, Embedded pass-through, Ogg Vorbis, optional MP3, or optional “SurCode for Dolby Digital” AC-3
Input “wrappers”:	HTTP Live (HLS), UDP, RTP, RTSP, HTTP, RTMP (Open Flash), MMS
Type:	IP-multicast, IP-unicast
H.264 bit rates:	Multiple H.264 video streams at different bit rates (.1 to 15 mbps), resolutions, and protocols, wrappers, and containers

Outputs

Video	SDI or HD-SDI (Blackmagic) with Genlock
Audio	Embedded pass-through

Administration

Access:	Web interface, ssh interface
SNMP:	Monitoring and alerts

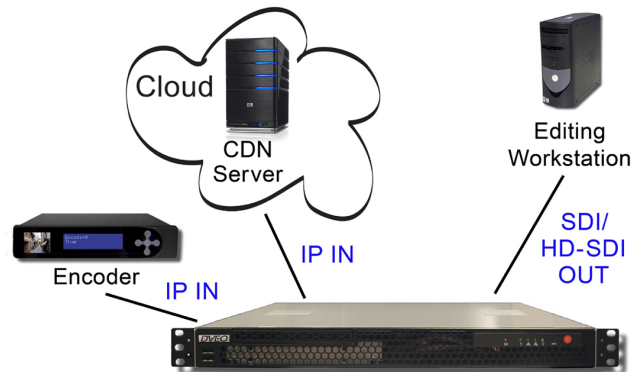
CPU and Operating System

CPU:	Intel Multicore Xeon 4 Core
OS:	DVEO embedded Linux® in Flash™

Physical & Power

Size:	19” rack mounted, 1 RU high
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
Conformities:	UL, BSMI, CSA, FCC, CE, RoHs
Weight:	15 lbs.

Block Diagram



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