Ministreamer™ HD-SDI/IP

**Features**

- Thousands in use worldwide
- Input: One SDI or HD-SDI input
- Optional HDMI input version available
- Supports stream archiving
- Output: One encoded output up to 1080p 30/1080i 60
- IP output protocols: UDP, RTP, DASH, HTTP Live (HLS), RTMP (Open Flash)
- Rugged fanless design with no moving parts
- Supports logo insertion, text overlay, and SCTE 35 compliant cue tone insertion ("ad markers") on outputs
- Web GUI is manageable from anywhere – includes some scheduling
- Able to downconvert incoming HD streams to SD
- Tested with leading CDNs (Verizon®, Akamai®, Tulix™, Ustream®, etc.)
- Supports Octoshape™, Akamai®, and Verizon® upLynk natively
- Supports H.264 High Profile @ Level 4.0 (HP@L4)
- Supports 1080i, 1080p, 720p, 576i, 480i, 480p, CIF, QCIF, qHD, H.264up and many others, and custom resolutions
- Supports 50 HLS users natively. Optional built-in server supports 1,000+ simultaneous HLS, DASH, and/or RTMP users.
- Support for Variable Bit Rate (VBR) encoding maximizes adaptive streaming video quality and bandwidth efficiency
- Tested to work with ATLAS™, Wowza®, and Adobe® Flash® media servers
- Tested compatible with major brands of IP devices including Amino™, Roku®, Telergy, Android™, and Apple iPad® and iPhone®
- Tested compatible with major brands of professional H.264 decoders and video servers
- SNMP, REST, SOAP support for remote management and monitoring
- Supports DOZER™ protocol option

**Applications**

- 24x7 Unattended Streaming to CDN’s and Media Servers
- Streaming video to CDNs and web sites like Ustream®, Akamai®, Octoshape™, Verizon®, etc.
- Backhaul/Monitoring for Broadcasters
- Military, Corporate Video, Religious Services, Special Events
- Origin Encoder for Grooming Servers
- Mobile and event oriented streaming to YouTube®, Ustream®, Livestream®, etc.
- Distributing full motion video across LANs and WANs
- Surveillance video in intelligence operations

Real time, hand sized, fanless, highly reliable, quick starting, standards compliant, embedded Linux® based, remotely manageable, single channel SD or HD (SDI) H.264/AVC TS Encoder. Incorporates a "minimal" Linux® kernel (residing on an SSD) yielding a highly reliable encoder manageable from anywhere via web GUI. A version is available with HDMI input. Built by us and thus can be customized.

Supports most industry standard "protocols" like UDP or RTP with unicast or multicast, and “Wrappers” such as HLS, RTMP, DASH, etc. Audio output is AAC, MPEG Audio, or AC-3. Supports closed captioning and teletext with overlay on outputs.

Encodes a single IP stream at .1 to 60 Mbps at resolutions up to 1080p 30/1080i 60. Software is scanned for vulnerabilities and open ports. Supports 50 simultaneous HLS users. With optional ATLAS™ add-on, supports 1,000 RTMP, DASH, and/or HLS users natively. Supports ad markers.
Application Example

Overview

The Ministreamer™ HD-SDI/IP is part of our MultiStreamer™ family of flagship cost effective origin encoders. This family has been in production for five years and we have shipped over 2,500 units. It is designed as a general purpose workhorse, able to stream several simultaneous streams at different resolutions with any streaming protocols.

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.

Sample of GUIs

Network Setup

Scheduled SDI Input Setup

IP Output Setup

Rear View

HDMI Out to PC monitor
HD-SDI In
### Options

- Optional built-in “Mini ATLAS” server supports 1,000+ simultaneous HLS, DASH, and/or RTMP users
- Optional DOZER™ Automated UDP Packet Recovery protocol, enabling error-free video delivery over UDP. DOZER ensures smooth H.264 delivery through DVEO patented algorithms for automated packet recovery and re-ordering of out-of-sequence packets.

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### Security

- Ports security scanned to MIL requirements prior to shipment

### Ad Insertion

- SCTE Ad Marker insertion via RS232, USB, IP, Contact closures

### Ordering Information

Ministreamer HD-SDI/IP – HD-SDI In
Ministreamer HDMI/IP – HDMI In