

DelayServer IP™

Broadcast Quality, Embedded Linux® Based, 1 RU, IP to IP Gateway with the Ability to Time Delay Multiple Video Streams in Both Standard and High Definition MPEG-2 or H.264 Formats. Can Time Delay Up to 40+ Separate IP Streams Simultaneously. Has Been Tested to be Compatible with Some Major Brands of CDN's. Can Work as a Network DVR. Available as Option for MultiStreamer™/MPEG Gearbox™.



Features

- Input: One GigE IP input (H.264, MPEG-2, or VC-1) – UDP, RTP, RTSP, HTTP, HTTP Live, FTP, RTMP (Open Flash), WMV9 with HTTP/ASF
- Outputs: Multiple delayed simultaneous IP streams (MPEG-2 or H.264) – HTTP Live (HLS), HTTP, UDP, RTP, RTSP, multicast and unicast with transport stream envelope, HTTP Smooth, HTTP Dynamic, FTP, RTMP (Open Flash), or WMV9 with HTTP/ASF
- Supports M3u8 playlist files (standalone and through HTTP live)
- Input or output format can be MPEG-2 or H.264
- Capable of pulling the source streams over IP (UDP, RTP, RTSP, RTMP, adaptive, or HTTP)
- Supports up to 1.5 TB of storage for time delay – over 30 days of programming, depending on stream resolutions
- Can store and forward (perform time delay) on 40 independent IP streams at the same time
- Supports multiple outputs at different time delays per single input
- Accurate to the second on multi-hour delays
- Simultaneously reads and writes with “on the fly” adjustment of delay time
- 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.
- Resolutions: SQVGA, QCIF, QVGA, SIF, VGA, or any custom size up to 1080p
- Supports SD or HD input
- Up to 1080p HD output
- Tested compatible with major brands of IP devices including Amino™, Roku®, Atlanta DTH, and Apple iPad® and iPhone®
- Audio support: AAC, Embedded pass-through, Ogg Vorbis, optional MP3, or optional “SurCode for Dolby Digital” AC-3
- Settings are remembered when power cycled
- Based on embedded Linux® (via flashdisk)
- SNMP remote management with low power consumption due to Sandy Bridge Intel CPU
- Ships with one HLS streaming enabled – for instant QA of functionality

Overview

Transport streams are packetized MPEG video streams. They are used to stream video to the myriad of devices that are now connected to the Internet. IP based video streaming is now becoming the prevalent methodology of distributing video. Real time streaming video is perfect for most applications, but in some cases delaying a stream is desired.

Time delay of video streams is very attractive when the content is coming from a totally different time zone. In such cases, programming created for morning or evening showing is going to attract more interest when shown at the correct time.

The **DelayServer IP™** is a delaying file server that re-streams 40+ MPEG-2 or H.264 IP transport streams and plays them back after a delay that is finely adjustable from seconds to hours. Capture and playback can be simultaneous on multiple streams.

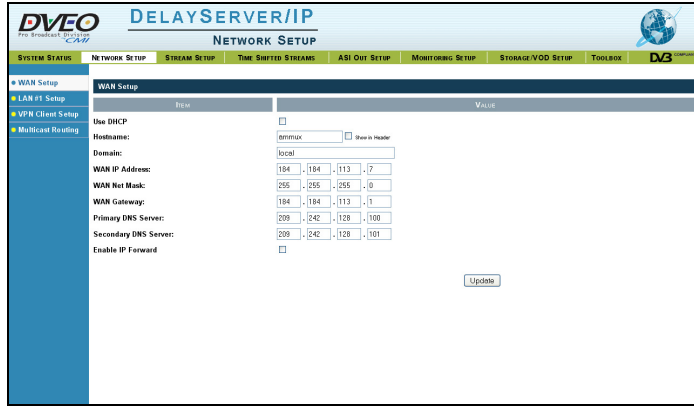
Interestingly the delay time can be adjusted “on the fly” by the user.

Delay capability is primarily set by storage capacity. We employ solid state drives as primary storage.

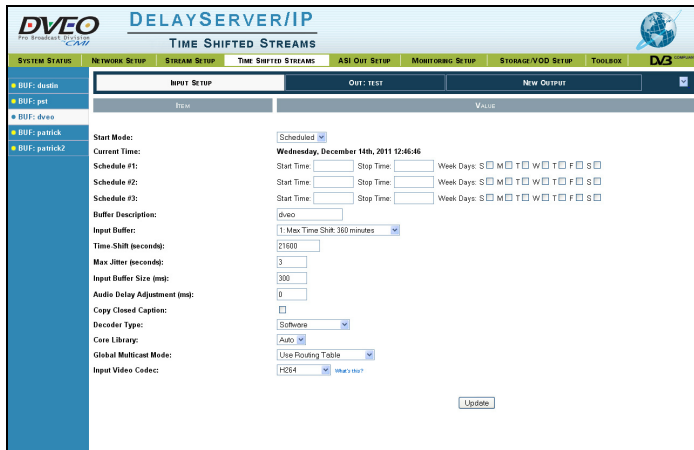
Applications

- Accurate Transport Stream time delay for webcasting across multiple time zones
- Over 30 days of Back Up and playback of all channels for Network Operations (N.B. at low rates and disk dependent)

DVEO
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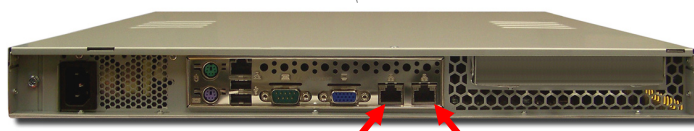


Network Setup



Scheduled Input Setup

Input/Output



WAN LAN
(Either can be Used for IP)



In lieu of bulky RAID systems we write to Intel SSD Drives...

Ordering Information

- DelayServer IP – Standard system with 250 GB Storage
- DelayServer IP/1 TB – Optional 1 TB storage
- DelayServer IP/1.5 TB – Optional 1.5 TB storage
- DelayServer IP/IP – Unicast to Multicast Conversion

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Supported Resolutions – Input and Output

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

IP Input protocols, “wrappers”:	UDP, RTP, RTSP, HTTP, HTTP Live (HLS), FTP, RTMP (Open Flash), Windows® Media Video 9 with HTTP/ASF
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IP Output

Ethernet	Up to 2 x 1 GigE
Audio Output:	AAC, Embedded pass-through, Ogg Vorbis, optional MP3, or optional “SurCode for Dolby Digital” AC-3
Output “wrappers”:	UDP, RTP, RTSP, HTTP, HTTP Live (HLS), HTTP Smooth, HTTP Dynamic, FTP, RTMP (Open Flash), Windows® Media Video 9 with HTTP/ASF
Type:	IP-multicast, IP-unicast, IGMP
Output bit rates:	Multiple H.264 or MPEG-2 video streams at different bit rates (.1 to 15 mbps), resolutions, and protocols, wrappers, and containers

Administration

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

CPU and Operating System

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

Physical & Power

Size:	19” rack mounted, 1 RU high
Voltage:	85-265 VAC/50-60Hz, 50 watts
Temperature:	0°C to 50°C
Humidity:	5% to 95% non-condensing
Conformities:	UL, BSMI, CSA, FCC, CE, RoHs
Weight:	15 lbs.



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