DVShift²

DVShift² – MPEG-TS Time Shift System

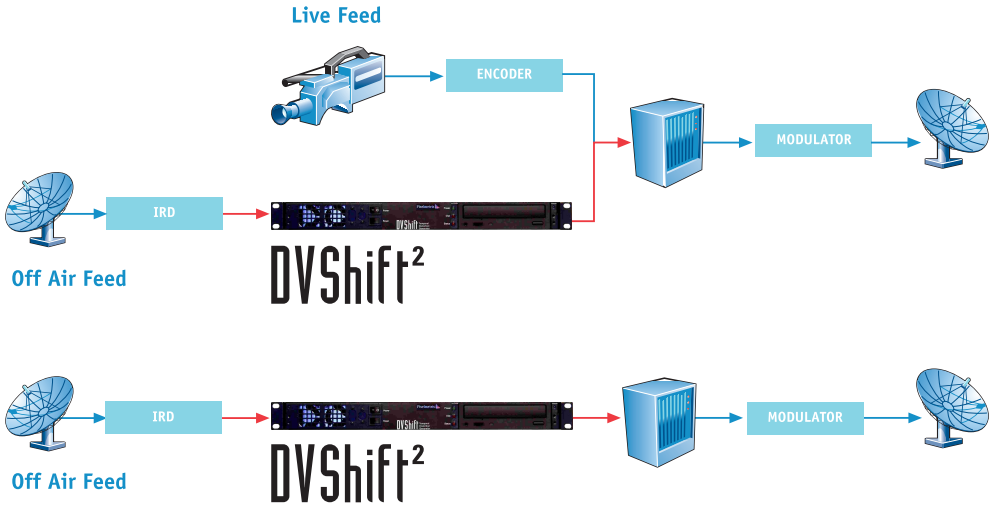
Overview

DVShift provides real-time, user-controllable delay of MPEG transport streams.

Available in two chassis options, the DVShift is ideal for program turn-around and delayed rebroadcast between national or international time zones. It accepts transport stream inputs up to 80 Mb/s and depending on the configuration, creates a broadcast delay of up to three days at full line rate.

The newly enhanced DVShift features a log viewer that displays a list of transmissions, such as when the shifting is started or stopped, or when the signal input is detected or lost.

Frame accurate shifting (±0.1 frame) is achieved if the delay is less than or equal to 20 seconds. The shifting accuracy is ±0.1 second if the delay is greater than 20 seconds.



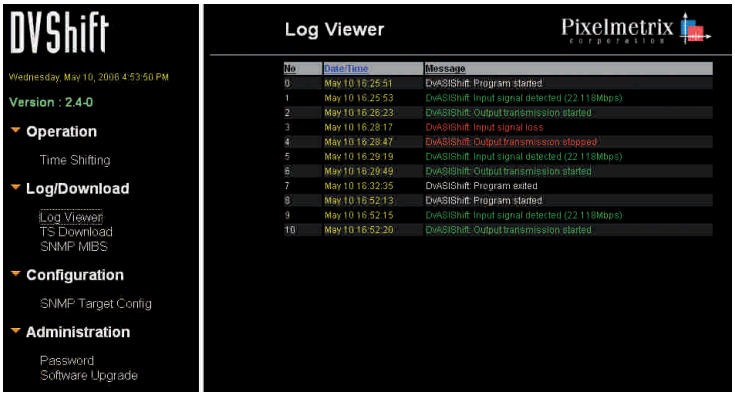
Key Applications

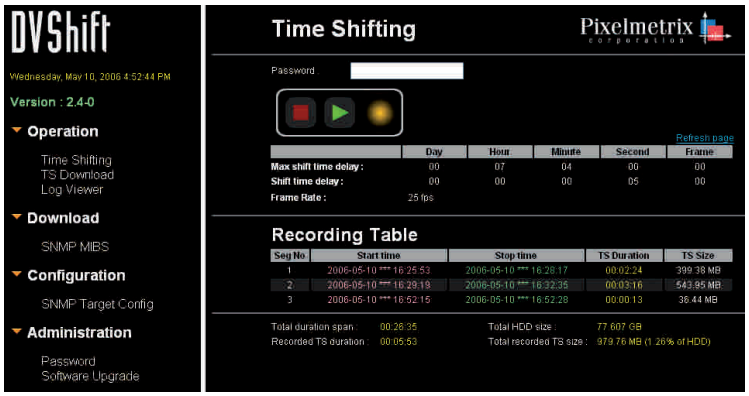
- Time delayed broadcast across time zones
- International program distribution
- Real-time program screening and filtering
- Simple and effective logo insertion

Flexible, User-Defined Delay Interval

Corresponding to a delay of almost 48 hours of 80 Mbps TS stream, the DVShift² is equipped with 4 TB of gross storage. Since the actual amount of time shift possible varies with input transport stream rate, DVShift² automatically calculates and displays upper limit for a speedy set up.

Built around an Intel-based CPU, the DVShift² system software utilizes Fedora Core Linux for maximum system stability. The rugged 1U industrial casing features two hot-swappable power supplies with automatic input voltage selection, along with hot-swappable RAID-5 storage. A cost-effective 1U DVShift with no RAID storage or redundant power supplies, capable of timeshifting content for up to 24 hours, is available as well.





Pixelmetrix corporation

Logo Insertion

The DVShift^2 can insert logos into an SPTS MPEG-2 video stream. This insertion is done in the compressed domain in real-time, making expensive SDI conversion and processing unnecessary. This functionality is available as an option.

Alarms and Notification

The system incorporates self-monitoring features that can notify operators and network management systems of system failure or loss of input transport stream. System parameters can be set and status can be queried from any SNMP compliant network management system via the built-in SNMP MIB.

Specifications

DVSHIFT 1U SYSTEM

CPU Platform
- Intel dual core processor

Auxiliary Interfaces
- VGA out, 800x600 resolution
- Gig E LAN port for remote control
- 2 USB ports
- PS/2 keyboard/mouse
- 52x Slim CDROM drive
- 1000 GB hard disk system

Recording and Playout Interfaces
- DVB/ASI Physical interface
- 75Ω BNC (2x) connector
- 80 Mbps Transmit rate
- 80 Mbps Input rate
- 1 bps transmit rate resolution
- 10 ppm transmit rate stability
- 70 ns maximum transmit jitter
- 17 dB input return loss

Chassis Specifications
- 1U rack-mount
- Heavy duty steel chassis
- Dimensions
  44mm (H) x 440mm (W) x 482.6mm (D)
- Weight: ~9kg

Electrical/Temperature
- 100-240 Vac, 50-60 Hz
- 80A max In-rush current
- Operating temperature: +10˚C to 40˚C
- Storage temperature: 0˚C to 50˚C

Regulatory
- CE Mark

DVSHIFT^2 1U SYSTEM

CPU Platform
- Intel dual core processor

Auxiliary Interfaces
- VGA out, 800x600 resolution
- 1000 Base-T LAN port for remote control
- 2 USB ports
- PS/2 keyboard/mouse
- 52x CDROM drive
- 4TB hot-swappable gross storage

Recording and Playout Interfaces
- DVB/ASI-C Physical interface
- 75Ω BNC (2x) connector
- 80 Mbps Transmit rate
- 80 Mbps Input rate
- 1 bps transmit rate resolution
- 10 ppm transmit rate stability
- 70 ns maximum transmit jitter
- 17 dB input return loss

Chassis Specifications
- 1U rack mount
- Standard: EIA 19-inch EIA (Electronic Industries Association)
- Heavy duty steel chassis
- Dimensions
  43mm (H) x 437mm (W) x 650mm (D)
- Weight: ~19kg (4 TB configuration)

Power Supply
- Dual ATX 300W 4U hot-swappable redundant power supplies

Electrical/Temperature
- 90-264 Vac, 47-63 Hz
- 80A max In-rush current
- Operating temperature: +10˚C to 40˚C
- Storage temperature: 0˚C to 50˚C

Regulatory
- UL listed
- CE Mark

Distributor Contact

Pixelmetrix Corporation

The Americas
10097 Cleary Boulevard
Suite 114 Fort Lauderdale
Florida 33324 USA
Tel: +1 954-472-5445
Fax: +1 212 671 1549

Asia Pacific
31 Kaki Bukit Road 3
#07-03 Techlink
Singapore 417 818
Tel: +65 6547 4935
Fax: +65 6547 4945

Europe
Affolternstrasse 47a
8913 Ottenbach
Switzerland
Tel: +41 56 6410 317
Fax: +41 56 500 0161

www.pixelmetrix.com

Ref: PPN30181

Pixelmetrix corporation