



DVShift – MPEG-TS Time Shifter

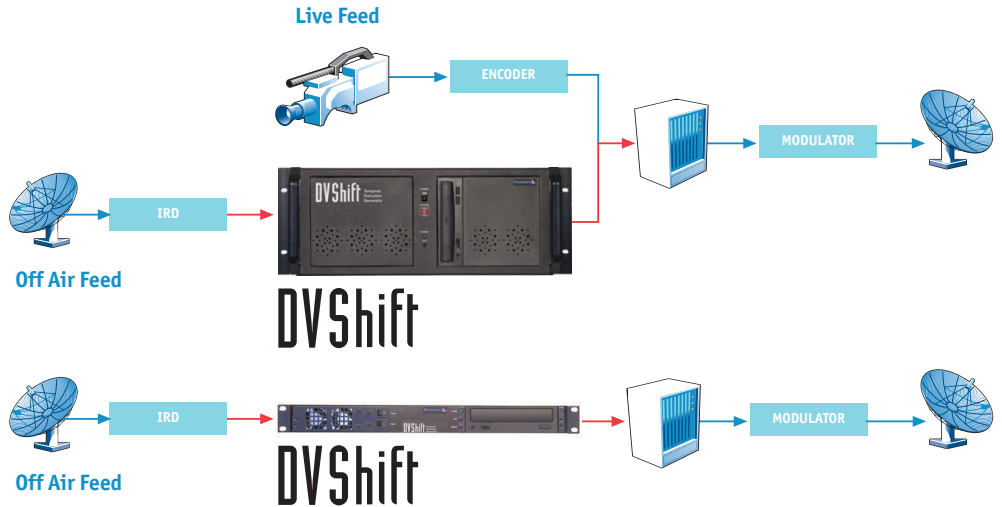
OVERVIEW

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

Available in two chassis options, DVShift is ideal for program turn-around and delayed re-broadcast between national or international time zones. It accepts transport stream inputs up to 80 Mb/s and depending on the configuration, effects 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.



FLEXIBLE, USER-DEFINED DELAY INTERVAL

Corresponding to a delay of almost 70 or 140 hours of a 19.2 Mb/s transport stream, DVShift is equipped with either a 500 GB or 1 TB RAID disk array. Since the actual amount of time shift possible varies with input transport stream rate, DVShift automatically calculates and displays the upper limit for a speedy set up.

KEY APPLICATIONS

- Time delayed re-broadcast across time zones
- International program distribution
- Real-time program screening & filtering

RUGGED AND STABLE

Built around a 3.0 GHz Pentium® CPU, the DVStor system software utilizes Linux Red Hat 9.0 for maximum system stability. The rugged industrial casing features two hot-swappable power supplies with automatic input voltage selection.

ID	Date/Time	Message
0	May 10 16:25:51	DVShift: Program started
1	May 10 16:25:53	DVShift: Input signal detected (22.110Mbps)
2	May 10 16:26:23	DVShift: Output transmission started
3	May 10 16:28:17	DVShift: Input signal loss
4	May 10 16:28:47	DVShift: Output transmission stopped
5	May 10 16:29:19	DVShift: Input signal detected (22.110Mbps)
6	May 10 16:29:48	DVShift: Output transmission started
7	May 10 16:32:35	DVShift: Program ended
8	May 10 16:52:13	DVShift: Program started
9	May 10 16:52:15	DVShift: Input signal detected (22.110Mbps)
10	May 10 16:52:30	DVShift: Output transmission started

Seq No	Start Time	Stop Time	TS Duration	TS Size
1	2006-05-10 *** 16:25:53	2006-05-10 *** 16:25:17	00:02:24	399.38 MB
2	2006-05-10 *** 16:26:19	2006-05-10 *** 16:32:35	00:03:16	543.95 MB
3	2006-05-10 *** 16:52:15	2006-05-10 *** 16:52:28	00:00:13	36.44 MB



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.

SECURITY AND ACCESS CONTROL

During normal operation, all system parameters and settings are locked against accidental modification. Maintenance and configuration of DVShift is enabled only after input of the proper administrator password.

SPECIFICATIONS

DVSHIFT 1U SYSTEM

CPU Platform

- 3.0 GHz Pentium IV processor
- 512 MB SDRAM

Auxiliary Interfaces

- VGA out, 800x600 resolution
- 10/100 BaseT LAN port for remote control
- 2 serial, 1 USB ports
- PS/2 keyboard/mouse
- 52x Slim CDROM drive
- 100 or 200 GB RAID Mirroring IDE hard disk system

Recording and Playout Interfaces

- DVB/ASI Physical interface
- 75Ω BNC (3x) 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 4U SYSTEM

CPU Platform

- 3.0 GHz Pentium IV processor
- 512 MB SDRAM

Auxiliary Interfaces

- VGA out, 800x600 resolution
- 10/100 Base LAN port for remote control
- 2 serial, 1 parallel, 2 USB ports
- PS/2 keyboard/mouse
- 52x CDROM drive
- 1 TB or 500 GB ATA133 RAID accelerated IDE hard disk system

Recording and Playout Interfaces

- DVB/ASI-C Physical interface
- 75Ω BNC (3x) 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

- 4U rack-mount
- Standard: EIA 19-inch EIA (Electronic Industries Association)
- Heavy duty steel chassis
- Dimensions
Without mounting bracket:
178mm(H) x 422mm(W) x 531mm(D)
With side mounting brackets:
178mm(H) x 490mm(W) x 531mm(D)
- Weight: ~23kg (1 TB configuration)

Power Supply

- Dual ATX 300W 4U redundant power supplies

Electrical/Temperature

- 90-264 Vac, 47-63 Hz
- 5.0 A at 115 Vac, 2.5 A at 230 Vac, Max
- Operating temperature: +10°C to 40°C
- Storage temperature: 0°C to 50°C

Regulatory

- UL listed
- CE Mark

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