User Interface

Overview

When broadcasting across time zones or receiving signals from satellite feeds at inopportune hours, a delaying file server is an economical solution to a large problem found in most cable head-ends.

The TimeShifter/ASI™ is a file server with knowledge of real time. It is designed to capture MPEG-2, H.264, or H.265 transport streams and play them back after a delay that is finely adjustable from seconds to weeks.

This device features an easy to use interface that allows you to perform (1) transport stream analysis, (2) standard start and stop configuration, (3) regularly scheduled shifts of a block of programming, (4) Daylight Saving Time adjustment without stopping the system, and (5) system maintenance using the Stop / Resume feature.

The TS-TimeShifter/ASI is designed to faithfully reproduce the incoming signal. Whether the signal happens to be standard definition or high definition, the delayed stream will be 100% identical to the incoming stream. The TS-TimeShifter/ASI is designed for 24/7 operation and is configured around a SuperMicro or similar enterprise class rack mounted server. We ship it with a dual power supply. The system comes standard with a .8 TB SSD.

Features
- Broadcast Reliability for 24x7 operation
- Prize-Winning product at NAB 2003
- Based on highly reliable SSD drive
- Enterprise class hardware
- SPTS or MPTS
- Super accurate time via optional NTP
- Simultaneous capture and time-delayed playback of MPEG-2, H.264, or H.265 transport streams
- Programmable time delay of playback (increments of seconds/minutes/hours)
- Daylight Saving Time adjustment
- Stop/Resume function available for real time upgrade/maintenance
- High speed drive option available for capture and playback rate up to 200 Mbps
- DVB-ASI input and output
- 188/204 byte packets
- Intuitive GUI
- Previews the incoming stream before recording starts
- Thumbnail viewer monitors stream while recording and time shifting
- Detailed event logs
- Effortless HD-SDI output support when paired with DVEO's TLV400E™ HD decoder
- Output connection to Input stream in the event of power failure
- Multiple profile support to schedule different delays on different days

Highlights
- Time delays a DVB ASI feed via a single-purpose automation platform
- Allows multiple channels to be delayed or time-shifted by a set amount of time
- Shifts programming on a regular basis
- Utilizes NTP time servers for system time control (Optional SMPTE time code cards available)
Product Views

Streams

<table>
<thead>
<tr>
<th>Input/Output</th>
<th>DVB ASI Coaxial MPEG-2 or H.264 transport stream conforming to ISO/IEC 13818-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Stream Rates – Minimum Configuration (1 TB hard drive)</td>
<td>Stream Rate -- Hours of Storage: 10 Mbps -- 144 hours, 20 Mbps -- 72 hours, 40 Mbps -- 36 hours (Continual Operation)</td>
</tr>
<tr>
<td>Maximum Stream Rate – Optional High Bit Rate Solution</td>
<td>Up to 200 Mbps with SSD</td>
</tr>
</tbody>
</table>

Physical & Power

| Size: | 1.7” h x 17.2” w x 27.75” d (43 x 437 x 705 mm) |
| Voltage: | 1200W high-efficiency power supply with PMBus (80 Plus Rated) x 2 – Optional Uninterruptible Power Supply and/or Secondary Power Supply |
| Power Consumption: | 15 amps maximum |
| Operating Temperature: | 10° to 35° C (50° to 95°F) |
| Non-Operating Temperature: | -40° to 70° C (-40° to 158° F) |
| Humidity: | 8% to 90% (non-condensing) |
| Conformities: | UL, CSA, CE, RoHS |
| Weight: | 40 lbs (18.1 kg) |

Block Diagram

Applications

- Accurate DVB-ASI time delay for satellite feeds of transport streams across multiple time zones – **Saves lots of $$ when feeding multiple time zones**
- Up to 60 days of Back Up and playback of all channels for Network Operations (N.B. at low rates and disk dependent)

Ordering Info

TS-TimeShifter/ASI X/Y/Z
Options:
X: Configured for NTP
Y: Configured with dual power supplies