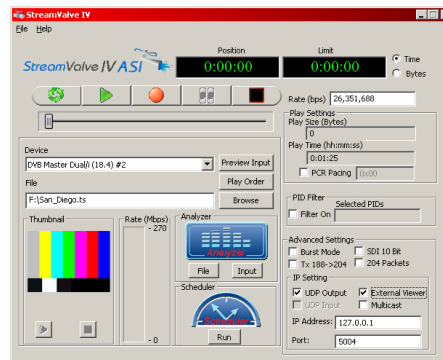




MPEG-2 and H.264 Transport Stream Player/Recorder Software Application with Support for DVB-ASI In and Out Cards, Plus IP Input and Output. For Continuous Playback and/or Capture of Selected Transport Streams – Includes TS Analyzer/Viewer, Remote Management, and Features Built-in Recording and Playback Scheduler.



Main GUI with viewer

Features

- Capture and playback of SD/HD, MPEG-2 and H.264/AVC (MPEG-4 Part 10) and SDI streams
- Capture and playback of transport streams via our DVB-ASI cards or UDP/IP
- Capture and playback of SDI streams via our SDI FD or four input SDI cards
- Supports capture and playback of transport streams with variable bit rate (VBR)
- Advanced Scheduled playback and record for Day, Week, Month, or Year
- Filter captured transport streams by PIDs (DVB cards only)
- Plays and Captures TS from all well known Video Encoders, Decoders, and Servers including Harmonic®, Tandberg®, Omneon®, Tektronix®, Radyne®, Big Band®, Seachange®, Scopus®, and many others
- Playback/capture rates up to 213 Mbps with fast SATA array hard drives (up to 270 Mbps for SDI)
- Plays back a sequence of transport streams or SDI files
- Play order GUI allows the order of file playout to be edited
- Input TS file via CD, DVD, USB Drive, Ethernet, input video stream via DVB-ASI, or UDP/IP
- Output TS file via CD, DVD, USB Drive, Ethernet, output video stream via DVB-ASI, or UDP/IP
- Configurable IP port for UDP/IP input and output
- Supports unicast or multicast
- Includes automatic TS analysis utility with PID and PCR clock info (Needs CBR for best result)
- Automatically uses the TS PCR info to calculate proper transport stream rate for capture and playback
- Selectable 188/204 packet size with auto conversion
- Continuous play or single play modes
- Buffer Overrun or Underrun warnings
- Remote management via Web interface
- Option: custom transport streams can be provided

Applications

- Capture or playback transport streams or SDI streams for testing
- Record and analyze transport streams
- Development labs, manufacturing shop floors, and trade shows – to capture and playback, or just continuously playback transport streams in real time
- Analyze and preview transport streams
- Program scheduler for TV stations
- Record transport streams of required data size

Overview

MPEG transport streams are specialized MPEG-2 or H.264 streams with features necessary to enable them to run on any MPEG-2 or H.264 decoder. Transport stream asset management is important for anyone interested in capturing or playing back video assets or “clips” to test their signal paths or the robustness of their equipment, or sharing their transport stream content with others.

This application is designed to provide an easy-to-use and intuitive interface that will give you a quick way to analyze, capture, filter, play, and view single and multiprogram streams.

Prior to capturing a transport stream, one needs to analyze it. Our built-in transport stream analyzer provides a complete view of all the SI or PSIP tables. Click on a PID and the analyzer will present considerable information about that PID – such as 1) stream type, 2) stream tag information, 3) packet counts, 4) stream statistics, 5) CRC error counts, 6) packet size, 7) bit rate.

StreamValve™ IV ASI features a Scheduler that enables users to schedule recordings and playouts for a specific time and date, or on an hourly, daily, weekly, or monthly basis. It also makes it easy to add multiple schedules for the same day.

Besides having capture and playback ability, StreamValve™ IV ASI allows you to filter selected PIDs that you wish to record (for DVB cards only). This way you can capture only the PIDs desired.

StreamValve IV ASI can also capture and playout SDI files.

In order to provide confidence to the capture process, we have included a copy of the VideoLAN VLC viewer, which allows you to decode and view any of the incoming or captured streams.

A VCR-like interface provides complete control over the capture and playback process. With our remote management capability, it allows you to record, start, stop, or play via a remote browser. This is greatly appreciated by anyone using this with an automation system.

For those wishing to have perfect “cut” on iframe boundaries, we recommend VideoReDo™. This program does an excellent job of cutting transport streams on iframe boundaries. This way splice points are not discontinuous and looping videos do not “break up”.



Computer Modules, Inc.

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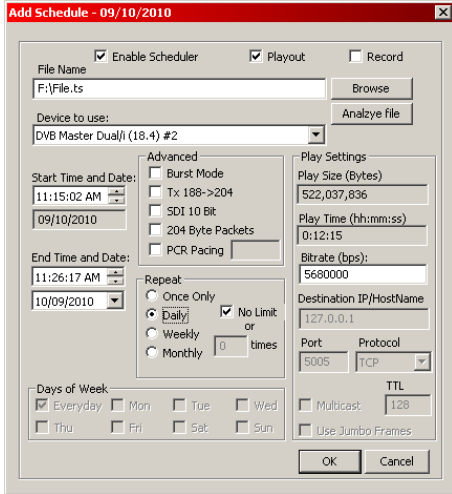
Tel: (858) 613-1818 Fax: (858) 613-1815

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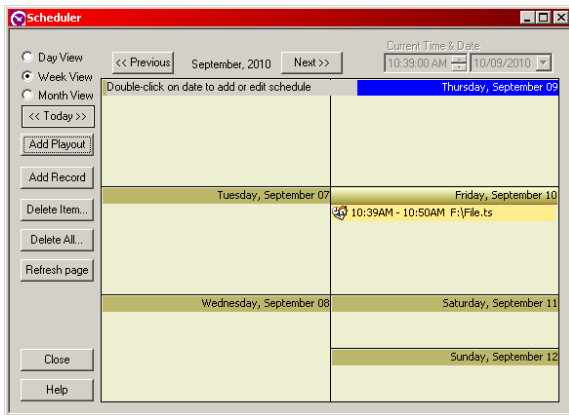
Highlights

- Multi-stream architecture allows *simultaneous recording of up to 4 transport streams or SDI streams to four separate files with one Quad input card*
- New feature – IP input and output
- New feature – schedule recording or playback
- Automates capture and playback with new online remote management features
- Includes transport stream analyzer and video viewer
- Ships with transport streams for test purposes

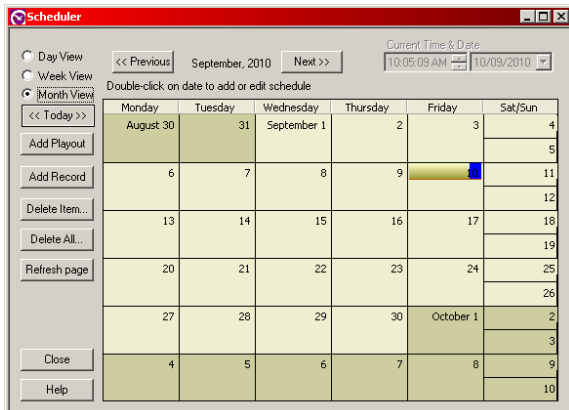
Scheduler GUI's



Record and Payout Scheduler – Main GUI

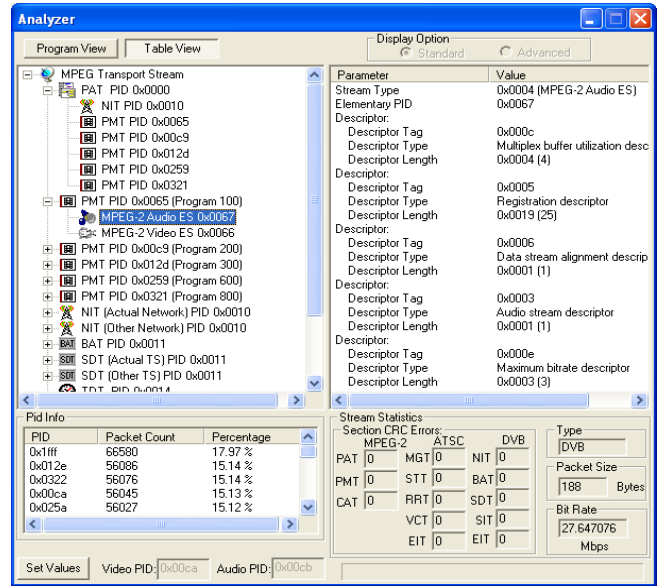


Record and Payout Scheduler – Weekly

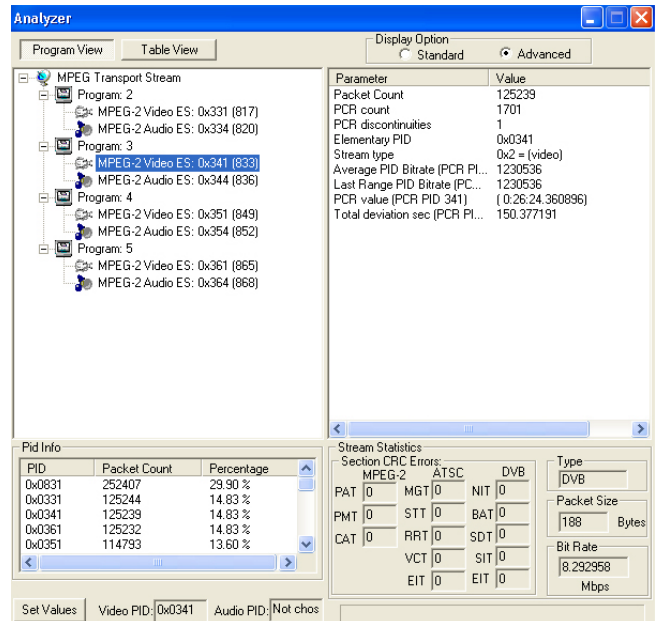


Record and Payout Scheduler – Monthly

TS Analyzer Screens



**Analyzer GUI – Table View
(Displays the table data stored in the Transport Stream)**



**Analyzer GUI – Program View
(Displays programs and their corresponding elementary streams in the Transport Stream, plus Bitrate, PIDs, and PCR information)**



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Tables Displayed

MPEG-2 PSI Tables:

- Program Association Table (PAT)
- Conditional Access Table (CAT)
- Transport Stream Description Table (TSDT)
- Program Map Table (PMT)
- Network Information Table (NIT)

ATSC PSIP Tables:

- Master Guide Table (MGT)
- Directed Channel Change Table (DCCT)
- DCC Selection Code Table (DCCSCT)
- System Time Table (STT)
- Region Rating Table (RRT)
- Terrestrial Virtual Channel Table (TVCT)
- Cable Virtual Channel Table (CVCT)
- Event Information Table (EIT)
- Extended Text Table

DVB-SI Tables:

- Bouquet Association Table (BAT)
- Network Information Table (NIT)
- Service Description Table (SDT)
- Event Information Table (EIT)
- Time and Date Table (TDT)
- Time Offset Table (TOT)
- Running Status Table (RST)
- Stuffing Table (ST)
- Discontinuity Information Table (DIT)
- Selection Information Table (SIT)

Typical Configuration

- Operating System: Windows® 7, Windows® XP, Windows® Vista, Windows® Server 2008, or Windows® Server 2003, with all available updates done
- RAM: 1 GB
- In addition to the system drive, an enterprise level high-speed hard drive for capturing and playing back files
- For high bit rate stream, use multiple hard drives in RAID array

Note: for optimum performance, use enterprise level SATA or SAS hard drives

Ordering Info

StreamValve IV ASI – ASI / IP / SDI
Option 1 – Custom transport streams
Optional T-Server ASI System

Compatible DVEO Cards

- ATSC Master™ II FD
- DVB Master™ III Rx
- DVB Master™ Dual/i FD
- DVB Master™ III Tx
- DVB Master™ 2i/2o
- DVB Master™ III Tx LP
- DVB Master™ FD
- DVB Master™ Quad/i
- DVB Master™ FD LP
- DVB Master™ Quad/o
- DVB Master™ FD-B
- Multi Master A/S™
- DVB Master™ FD-BR
- Multi Master S/A™
- DVB Master™ FD-R
- SDI Master™ FD
- DVB Master™ FD-U
- SDI Master™ Quad/i

StreamValve IV ASI is also compatible with all PCIe versions of the cards shown above.

IP Protocol

UDP / IP

Input: unicast or multicast

Output: unicast or multicast

Remote Management GUI

Stream Valve Control Stream Valve Log

Status: Running

Source/Destination File
E:\mpeg_2 TR Streams Samples Drive: [A:] Browse Clear

Time Bytes
Position Limit(s or KB)
00:00:00 00:00:00
LOOP PLAY ONCE RECORD STOP

Play Settings
Rate(bps) 19392008
 Tx Jitter Reduce
PCR PID(hex) 0x00

Record Settings
 Filter PIDs

Advanced Settings
 Tx Burst Mode SDI 10 Bit Mode
 Tx 188 to 204 Byte Packets 204 Byte Packets
 UDP Output To 127.0.0.1 < Local Ip

Web Control GUI



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