



Zanalyzer

A family of transport stream analysis and monitoring tools, Zanalyzer is redefining the industry. Zanalyzer provides a transport stream analyzer, decoder, recorder and stream manipulator for MPEG systems. DVB, ATSC and Digicipher® II extensions to the base MPEG specification are supported.

Zanalyzer gives terrestrial, satellite and cable broadcasters, video production houses and other transport stream users and producers tools to maintain regulatory compliance and keep efficiencies high.

The Zanalyzer product family provides flexible yet affordable, easy to use portability, providing for instant ROI and compliance monitoring. Use any PC with a web browser to monitor your streams worldwide.

- Local or remote diagnostics and monitoring via a web browser*
- Supports multiple stream inputs simultaneously
- Supports multiple users checking each stream independently or simultaneously
- Documents adherence to compliance requirements
- Instant ROI

*Remote monitoring requires customer supplied network.

REMOVABLE, EASY TO USE AND POWERFUL USER INTERFACE WORKS WITH ANY PC

No, that's not an oxymoron! A user interface really can be both easy to use and powerful. Information is presented so that you can quickly see what you need to know. No clicking through menus or drilling through dialogs. It's all right where you need it. Our graphs give you all the details in a glance but show you the exact numbers for precision.

Zanalyzer's user interface runs anywhere you have a computer with a web browser! Just install Macromedia's Flash® client and you can monitor your transport streams over your local intranet or the public Internet. There is no special software to install, maintain or pay for, whether you have 1 user or 1,000.

PRODUCT FAMILY

Z1 DTSA

The Z1 DTSA is an affordable, remotely accessible transport stream analyzer that allows real time monitoring locally and via a network. The Z1 offers multiple user-selected inputs, simultaneously monitoring each and is available in a robust 3U or 1U rack mount form factor.



Zm DTSA

The Zm DTSA is a basic version of our Z1, available in rack mount and smaller form factors, suitable for dedicated real time stream monitoring, such as at a translator site or anywhere space is at a premium. The Zm offers a single user-selected input.



SUPPORTED INTERFACE TECHNOLOGIES

Both Zanalyzer models support SMPTE 310M, ASI, DVB-/S/C/T, 8VSB, Annex B QAM and Ethernet.



ENSURE REGULATORY COMPLIANCE AND SAVE MONEY

Auditing and Logging

- Closed Caption EIA608 and EIA708
- TVCT and TVPG
- Electronic Program Guide (EPG)
- Catch problems and avoid costly fines!

Multiple Inputs Available Simultaneously

- No need for multiple analyzers

Monitor Bandwidth and Service Quality

- Keep your customers satisfied
- Reduce bandwidth costs

Lower System Investment Than Other Analyzers

All display panes are resizable.

Many charts provided, including MUX Utilization, Closed Caption Data, EPG Data and Video Composition.

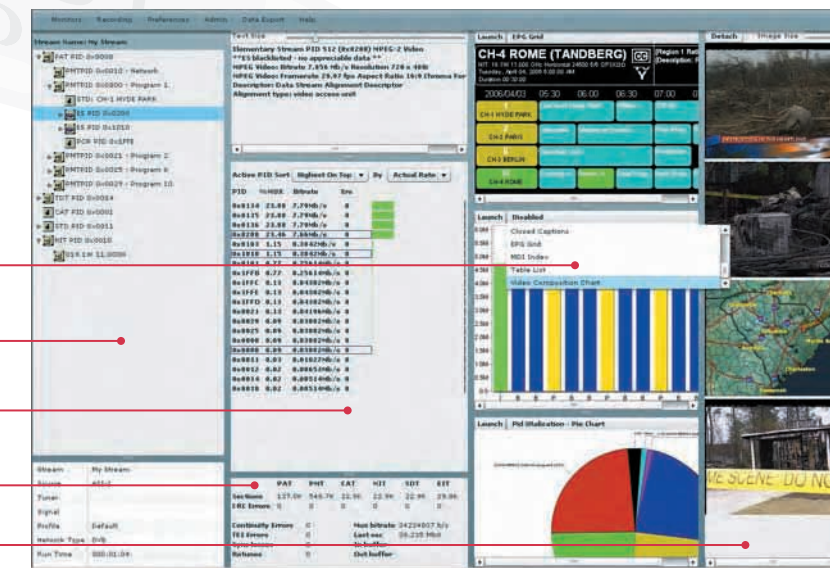
Three User Selectable Multi-Function Displays

Hierarchical Service Information Tree

Real Time PID / MUX Utilization

Stream Status

Resizable Thumbnail Images Present Unscrambled Video



COMMANDING FUNCTIONALITY FOR DEMANDING USERS

Stream Analysis

- Find PIDs in a mux quickly even if the MPEG tables aren't correct
- Spot channels within muxes that occasionally switch from scrambled to FTA
- Analyze new transmissions for all the pertinent technical information about the mux in just a few seconds

Stream Recording

- Record unscrambled SD and HD programs directly to the hard drive
- Record the entire mux and later use Zanalyzer as a demultiplexor extract an individual programs as needed

Stream Monitoring

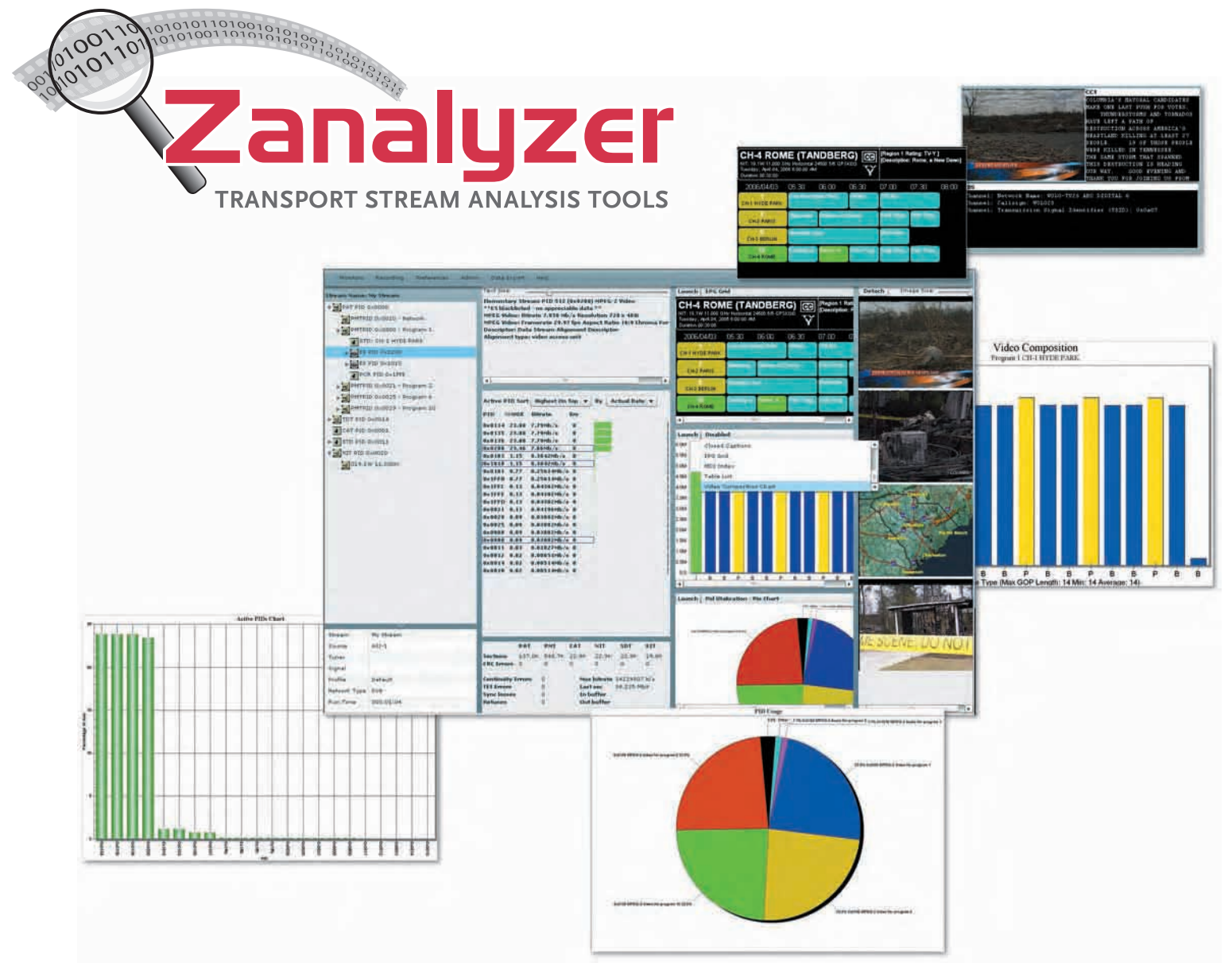
- Verify if an encoder is running correctly or how much bandwidth is being wasted on null packets
- Display JPEG thumbnails of unscrambled MPEG video to verify correct encoder operation
- Export DVB tables for real off-air stream verification
- Monitor EPG and Closed Caption data for compliance

Stream Viewing

- Playback MPEG2/DVB or ATSC video in real-time
- Transcode video in real-time for Internet streaming
- Forward programs over ethernet as unicast or multicast

VAST FEATURE SET

FEATURE	Z1 DTSA	Zm DTSA
Decodes MPEG tables with DVB, ATSC and Digicipher® II extensions.	●	●
Decodes, displays and logs PSIP data.	●	●
Decodes unscrambled MPEG video in thumbnail format. All profiles/levels are supported.	●	●
Parses MPEG, A/52 (AC3) and DTS audio streams to show bitrate/mode settings.	●	●
Decodes, displays and logs Electronic Program Guide (EPG) data.	●	●
Decodes, displays and logs Closed Caption (EIA608) / DTVCC (EIA708) for ATSC streams.	●	●
Indicates VBI/Teletext/Subtitle/WSS/VPS on DVB multiplexes.	●	●
Records the transport stream to a disk file.	●	●
Records an individual program to a disk file with PAT/PMT regeneration.	●	●
Decodes IP/DVB transmissions in MPEG format with decodes of the MAC and IP destination addresses.	●	●
Saves the payload from TCP and UDP transmissions and act as a multicast UDP/IP/DVB router.	●	●
Real-time PID usage graph with percentage displays for each PID.	●	●
Actual bitrate on PIDs carrying PCR and estimated bitrates for non-PCR carrying PIDs.	●	●
PID graph is color coded to indicate unscrambled and scrambled PIDs.	●	●
Counts continuity errors on mux and PID-by-PID basis.	●	●
Real-time playback of a program stream inside a mux.	●	●
Manually defined channels can be added to any multiplex.	●	●
Record any number of programs from a mux or the entire mux to disk.	●	●
Many hardware interfaces supported such as ASI, SMPTE 310M, Ethernet, SPI, QPSK, 8VSB, Annex B QAM, etc.	●	●
Serial receiver control for Motorola DSR-4800, Tandberg Alteia Plus/TT1260 and Newtec 2063 receivers.	●	●
Web-based remote access, so you can utilize Zanalyzer from anywhere in the world with a web browser on a PC or Mac.	●	●
Graphing capability to show mux usage and video rate.	●	●
Available in 1U rack mount and small, non-rack mount form factors.	●	●
Extremely cost effective solution for monitoring in multiple remote locations.	●	●
Supports analysis of multiple streams simultaneously.	●	●
Allows multiple users to simultaneously monitor the same stream.	●	●
Allows users to define configurable alerts and receive notices via email when alerts are triggered.	●	●
Security features include SSL encryption between the user interface and hardware and multiple user accounts with configurable access restrictions and unique passwords.	●	●



- **Feature Packed Transport Stream Analyzer**
- **Audit and Log Closed Caption, EPG and PSIP Data to Ensure Compliance and Data Quality**
- **Remotely Accessible Via a Secure Graphical User Interface**
- **Configurable Alerts Send Notice of Problems via Email**
- **Monitors Bandwidth Utilization and Quality of Service**



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