PTV1001
Product Brief

'02 New

MPEG-2 Transport Stream Analyzer, Generator & Recorder

PrimeDTV PTV1001 is a low-cost and rich-feature MPEG-2 Real-time Transport Stream Analyzer, Generator and Recorder designed specifically for the rapidly growing DTV environment.

Product Overview:
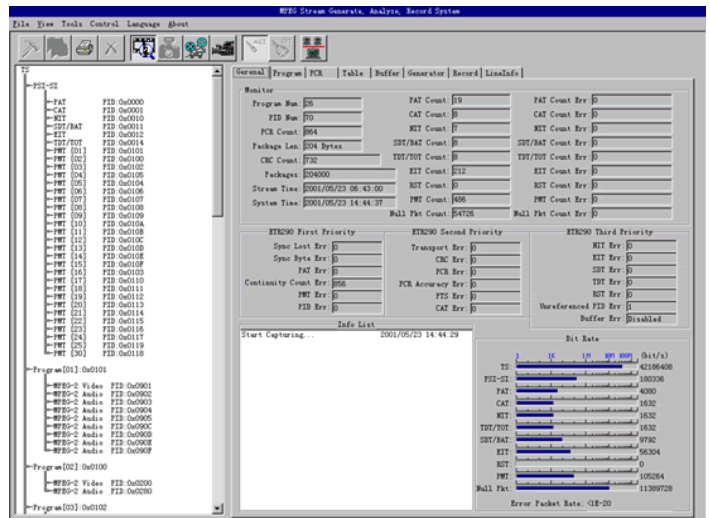
PTV1001 gives in-depth real-time or off-line analysis of all elements of the MPEG-2 transport stream including stream syntax verification, content conformation, timing and buffer use analysis, error capture, etc. It displays transport streams in an easy-to-read tree structure and shows analysis and monitoring results with graphical displays. The equipment also generates standard transport streams from files, built-in debug stream and input stream with add-on features like user-controlled output bit rates, automatic SPI/ASI conversion and ASI mode selection. The recording function records real-time input stream to your local hard disk for future replay or detailed off-line analysis. The unit can also automatically capture error-triggered transport stream through user settings. The auto-generated log file saves the analyzed transport stream information list and result.

Product Applications:

- Development
- Production
- Transmission
- Terrestrial
- Cable
- Satellite
- Field Analyzing

Product Package:

- Portable (with color LCD and keyboard)
- ATSC/QAM capture PCI card (Option)
- Network Access (Option)
- DVD/CD Writer for additional TS data storage (Option)

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Features and Functions:

- ◆ TS input/output:
  - SPI and ASI interfaces
  - 120Mbps max bit rate
  - SPI/ASI conversion
  - ASI output mode selection (burst, smooth, equal interval)
  - Output bit rate control
- ◆ Real time analysis:
  - Analysis delay <100ms
  - Stream content and PSI/SI displayed in tree structures
  - Main parameter analysis and statistics
  - PCR clock monitoring, jitter and interval analysis
  - Program & Elementary Stream parameters
  - PSI/SI tables & descriptors
  - Error checking based on ETR290. All three level errors are checked and analyzed
- ◆ Stream capturing:
  - Capture length depends on system memory size
  - Off-line analysis can be activated after capture
  - Filtering modes can be selected
  - Error trigged automatic capturing can be preset
- ◆ Transport Stream Recording:
  - Recording length is only limited by disk size
  - Recording length and filtering mode can be selected
- ◆ Transport Stream Generating:
  - Source: transport stream files, direct from input stream, buffered and modified input stream, build-in debug stream
  - Step size of generating clock frequency less than 1Hz, accuracy of internal clock < 10^{-7}
  - Controllable output bit rate, SPI/ASI conversion, ASI modes, etc.
- ◆ Line signal analysis & monitor:
  - ASI/SPI input error and status check and monitor
- ◆ Off-line analysis:
  - Tree structure display
  - Colorized packet content analysis
  - Packet head
  - PSI/SI tables
  - PES headers
  - MPEG video and audio parameters
  - PCR jitter and interval
  - And more ….