TANDBERG television
Part of the Ericsson Group

TT4010
Transport Stream Analyzer

The TANDBERG TT4010 Transport Stream Analyzer combines advanced error detection and monitoring capabilities in an easy to use portable form.

TANDBERG Television's TT4000 Transport Stream Monitoring family is designed to fulfill the increased need for monitoring and analysis of MPEG-2 networks and higher up-time expectations of service providers. The TT4010 portable unit can be used in any MPEG-2 head-end where an ASI signal is available, or out in the field to monitor the actual QAM network

BASE UNIT FEATURES

TT4010 with ASI or QAM input (TT4010/BAS, TT4010/BAS/QAM)

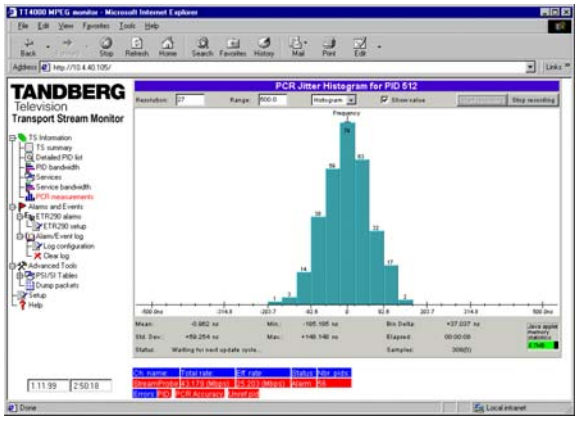
The TANDBERG TT4010 is a unique portable tool for monitoring of MPEG-2 transport streams. Its ability to display stream contents and detect errors in real-time makes it ideal for use during system installation and testing. The web-based user interface allows access to the probe from any computer supporting a web browser.

The TT4010 can be easily carried around and connected at any point in a TS transmission chain in any digital TV network to help operators locate errors and ensure consistent Quality of Service.

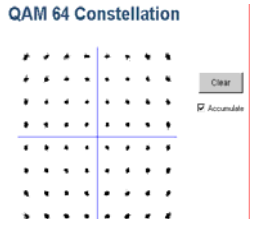
Features include:

- Highly portable probe with external DC power supply
- User-friendly graphical interface via a standard WEB browser
- Supports both DVB and ATSC specifications
- DVB ASI and optional QAM Annex A input interface options
- Error detection according to ETR290 specification
- Bit-rate alarms
- TS/Service/PID analysis
- PSI/SI (DVB) and PSIP (ATSC) table analysis
- Ethernet (TCP/IP) remote control interface
- Internal alarm/event logging

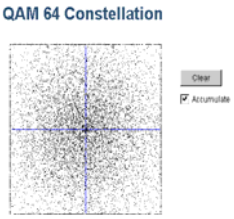
SCREEN SHOT SHOWING PCR JITTER



QAM constellation diagram



with QAM signal input



without QAM signal input

SPECIFICATIONS

Inputs

DVB ASI / M2S Connector **BNC (female)**

Max 50 Mbps

QAM Demodulator (Annex A)

Connector: F-type (female), 75 ohm

Connector: F type (female), 75 ohm

Channel bandwidth: 8 MHz

Tuner frequency range: 50 - 860 MHz

Input signal level/channel: 30 - 100dBuV

Outputs

DVB ASI / M2S (active loop-through from input)

Features

Error detection according to DVB ETR290 specification for real-time monitoring of MPEG-2/ DVB TS

Internal alarm/event logger

TS analysis

Shows all present PIDs

Monitoring of total and effective bit-rate

Detection of DVB ASI packet length

Service Analysis

Shows Service IDs, names and components (based on PSI/SI or PSIP analysis)

Graphical view of service bit-rates including detection of min/max values dynamic updating

Service oriented alarm reporting

PID Analysis

Graphical view of individual PID bit-rates including detection of min/max values dynamic updating

Scrambling detection

Decodes PSI/SI/PSIP tables (shows fully decoded table syntax and hex tables)

PCR Analysis

PCR jitter measurements, including real-time graphical view of PCR jitter distribution

DVB Type 2 and 3 PCR

Configurable alarm relay

Remote monitoring

QAM constellation diagram

Control

10 BaseT Ethernet interface

TCP/IP protocol support

Remote control from Internet Explorer/Netscape Web Browser (must support JAVA)

Physical and Power

Dimensions (W x D x H)

170 x 290 x 43mm (6.7 x 11.4 x 1.7 inches)

Input Voltage

External power, 12V/2A DC (PSU included)

Environmental Conditions

Operating Temperature

0°C to +45°C (32°F to 113°F)

Storage Temperature

-20°C to +70°C (-4°F to 158°F)

Relative Humidity

5-95% (non condensing)

QAM Spec

Signal Format

QAM-4, QAM-16, QAM-32, QAM-64, QAM128 and QAM-256 mode

Compliance

CE marked in accordance with Low Voltage Directive (LVD) 73/23/EEC and EMC directive 89/336/EEC

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