



DVStation-Mini³ TSP Family

OVERVIEW

The DVStation-Mini³ TSP family comprises of three probes, each a single-port ASI/SMPTE-310 transport stream monitoring tool. Built rugged and portable, the TSPs are ideal for deployment into rough, mobile environments.

The DVStation-Mini³ TSP family does complete transport stream analysis with bandwidth utilization monitoring, SI/PSIP table decode and service line-up checking. The DVStation-Mini³ TSP can be triggered to capture transport stream data leading up to the error as well as the aftermath of the error event.

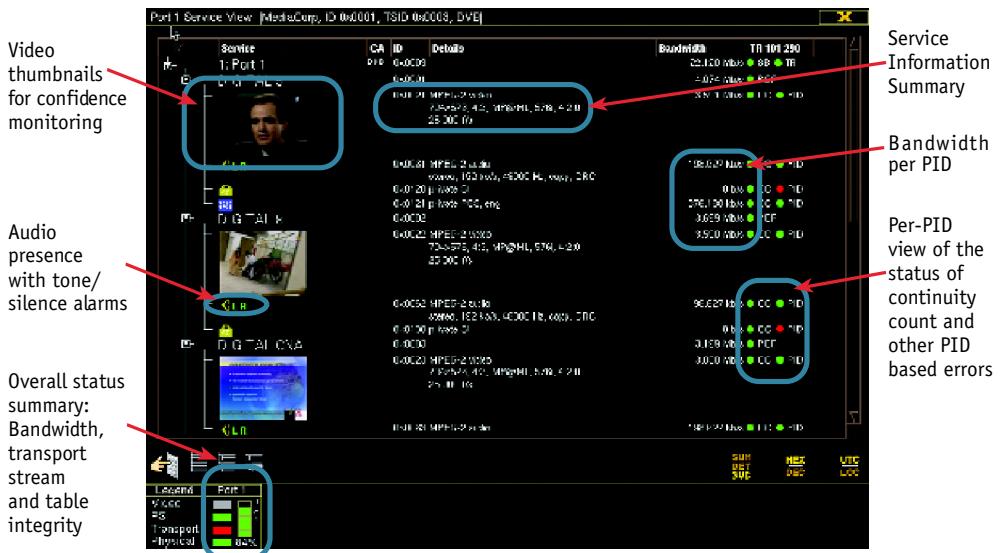
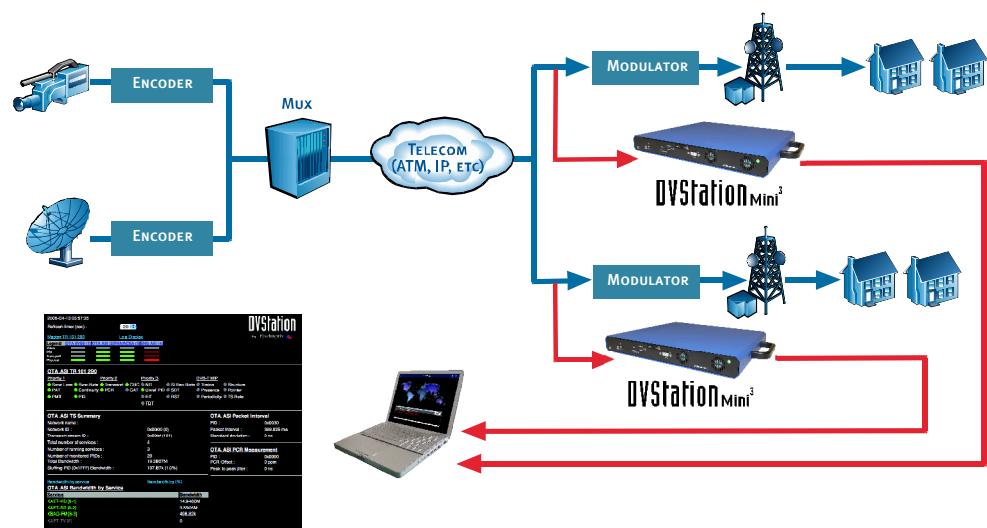
Designed to be rack-mounted in a mobile environment or carried in the field, all probes in the DVStation-Mini³ TSP family have internal shock mounts. With local console capability, the DVStation-Mini³ TSP is a self-contained probe without the need for an additional PC.

KEY FEATURES

- Supports H.264 SD/HD video decode (TSP Lite & TSP Plus models)
- H.264 4:2:2/4:2:0, 8-bit/10-bit video codec support (TSP Plus models)
- On-board optional 3x1 input router (TSP Plus model)
- ASI input
- SMPTE-310 capable (TSP & TSP Lite models)
- NMS integration with SNMP TRAPs
- 1 RU rack-mountable - small footprint
- Local console capability - no PC required

ANALYZE

- PSI/DVB-SI/ATSC PSIP Decode in real time
- Display of video thumbnails of services and associated metadata
- PID View



MEASURE

- TR 101 290 or ATSC conformance analysis
- Bandwidth measurements
- Inter-packet arrival intervals
- PCR Jitter
- MIP Support for DVB-T Single Frequency networks

CONFIGURE ALARMS

- All measurements with configurable threshold
- On-Air Content Validation

OPTIONS

- On-Air Content Validation (OCV)

Automatically identify discrepancies between the expected baseline and actual broadcast content: missing or extra services, incorrect service names, loss of subtitles, wrong language, incorrect age-rating.
- MHP Object and DSM-CC Data Carousel Analysis

Validate smooth operation of interactive TV services.
- TSP Router Control Software

Control an external TSP router for round-robin monitoring of multiple TSP sources.
- M2P Interface

Hardware interface required for certain legacy equipment.



DVStation-Mini³ rear panel



DVStation-Mini³ TSP Lite front panel

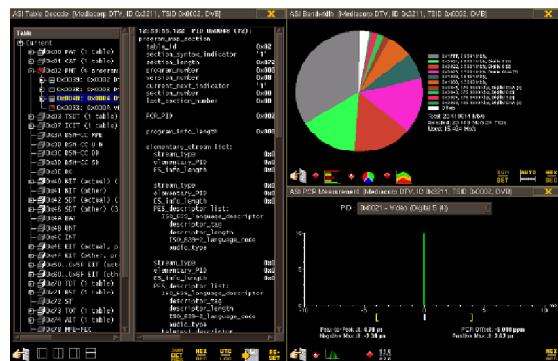


DVStation-Mini³ TSP front panel



DVStation-Mini³ TSP Plus front panel

Decode tables for troubleshooting:
View table contents in plain text, ASCII or hexadecimal



Bandwidth utilization by the transport stream components

PCR Jitter Measurements

FEATURES	TSP LITE	TSP	TSP PLUS
TR 101 290, ATSC A7/8, ARIB TR-B14 checks	✓	✓	✓
Bandwidth measurements	✓	✓	✓
PCR measurements	✓	✓	✓
Table decode	✓	✓	✓
Video thumbnail display	✓	✓	✓
PID view	✓	✓	✓
Local VGA console with USB keyboard & mouse capability	✓	✓	✓
H.264 SD & HD support (4:2:0 Main & High Profile)	✓		✓
H.264 4:2:2 (8-bit and 10-bit) codec support			✓
Content Streaming (using dedicated Gigabit Ethernet port)			✓
Remote Service View (using the on-board WAN connector)	✓	✓	✓
Transport stream capture (in MB)	96	96	256
Optional 3x1 input router option			✓
Data Rate	60	180	215

SPECIFICATIONS

System Interfaces

- Management Port
 - 10/100/1000 Base-T
 - RJ-45 Copper Connector
- Serial Port
 - 9-pin DE-9P Connector
- GPI Contacts
 - 3 Contacts
 - 9-pin DE-9P Connector
- USB 2.0 Connectors (2x)
- VGA (HD-15) Connector

Control Interfaces

- HTML Web Browser
- VNC Remote Client

Network Management

- SNMP MIB for NMS integration

Mass Storage

- 80 GB shock-mounted HDD

Chassis Dimensions

- 342.2 mm W x 314.92 mm D x 40.01 mm H

Mechanical Characteristics

- 1 RU Portable with handle or 19 inch rack-mountable
- Operating Temperatures
 - +10°C to +30°C
- Storage Temperature
 - 0°C to +50°C

Electrical Characteristics

- Power Input
 - 90-240 V AC; 47-63 Hz
- Current Requirement
 - 5.0A at 115 V AC Max
 - 2.5A at 230 V AC Max

Standards

- DVB-PI-232 TM 1449
- ISO/IEC 13818-1 & ANSI X3T11 EN 50083 Part 9
- SMPTE-310/IEC 60169-9

Asynchronous Serial Interface (ASI)/SMPTE-310

Connector Type

- BNC

Input Impedance

- 75Ω

Signal Level

- 200mVpp to 2Vpp

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