

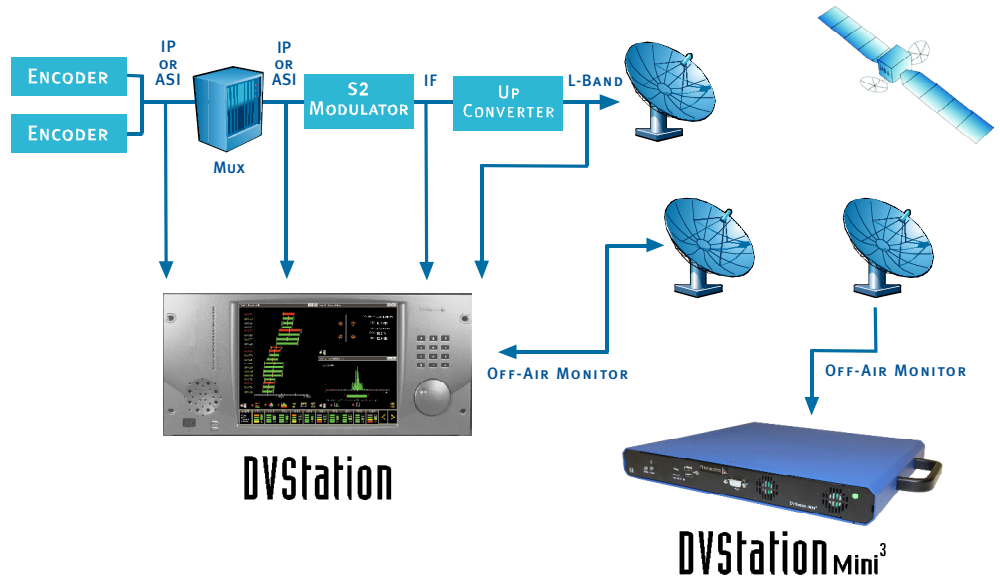
DVStation-Mini³ PSK

OVERVIEW

The DVStation-Mini³ PSK is a single port L-band transport stream monitoring solution. Rugged and portable, it is ideal for rough and mobile environments.

The DVStation-Mini³ PSK can scan through the entire L-band spectrum quickly, making auto-discovery of services very simple - even if key parameters such as the symbol rates or FEC options are not known.

The DVStation-Mini³ PSK lets you remotely view full-frame MPEG-2/H.264 video with the associated audio streams. The DVStation-Mini³ PSK can also capture a segment of the live transmission for later analysis.



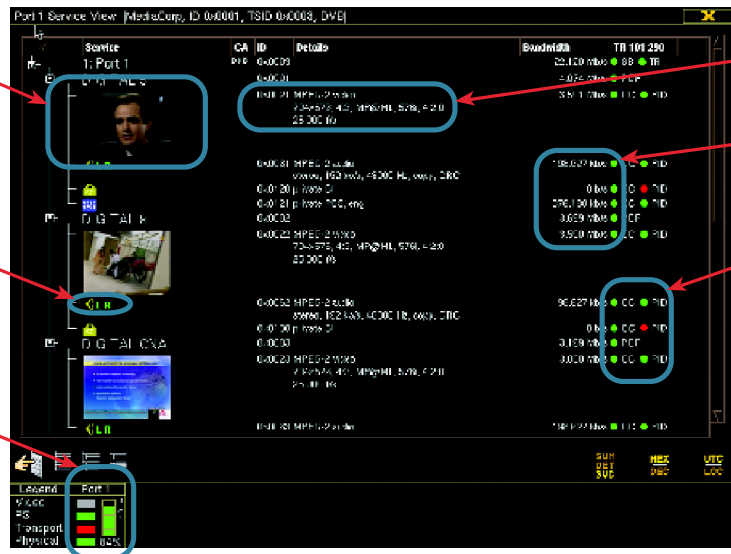
KEY FEATURES

- Scan the entire L-band spectrum for available services without knowledge of symbol rates or FEC options
- Remotely view MPEG-2/MPEG-4 video along with associated audio for confidence monitoring
- Capture a part of the live transmission in the field for later analysis
- Reliable operation in shock-susceptible mobile applications
- 1 RU rack-mountable - small footprint
- Monitor multiple sources in a time-shared mode
- DVB-S QPSK L-band input
- Easy recovery with supplied USB recovery drive and default IP reset
- Local KVM capability

Video thumbnails for confidence monitoring

Audio presence with tone/silence alarms

Overall status summary: Bandwidth, transport stream and table integrity



Service Information Summary

Bandwidth per PID

Per-PID view of the status of continuity count and other PID based errors

ANALYZE

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

MEASURE

- TR 101 290 conformance analysis
- Bandwidth measurements
- Inter-packet arrival intervals
- PCR Jitter

CONFIGURE ALARMS

- All the measurements above 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.

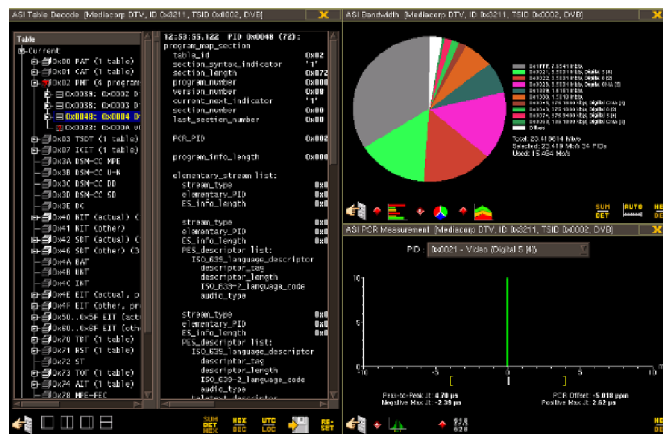
MHP Object & DSM-CC Data Carousel Analysis

Validate smooth operation of interactive TV services.

M2P Interface

Hardware interface required for certain legacy equipment.

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



Bandwidth utilization by the transport stream components

PCR Jitter Measurements



DVStation-Mini³ PSK front panel



DVStation-Mini³ rear panel

SPECIFICATIONS

System Interfaces

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

Control Interfaces

- HTML Web Browser
- VNC Remote Client

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

Network Management

- SNMP MIB for NMS integration

Mass Storage

- Shock-mounted HDD (80 GB min)

Input Interfaces

L-Band RF Input

Connector Type

- F-type (75Ω)

Frequency Range

- 950 to 2150 MHz QPSK signal

Maximum Symbol Rate

- 30 MSym/s

Code Rate

- 1/2, 2/3, 3/4, 5/6, 6/7, 7/8

Power Level

- -25 dBm to -65 dBm

Standard

- ETSI EN 300 421 (DVB-S)

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

Chassis Dimensions

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

Impairment Detection

- RF Carrier Level
- RF Frequency
- Signal to Noise Ratio (SnR)
- Bit Error Rate (BER)
- Error Vector Magnitude (EVM)
- Modulation Error Ratio (MER)
- Reed Solomon uncorrected block error counts

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