

DVB-H/DVB-T Monitoring SILVER



DESCRIPTION

Silver® is a sophisticated cost-effective monitoring equipment for DVB-H and DVB-T networks, which enables broadcasters, mobile operators, regulators and TV channels to ensure that the system is working in compliance with DVB-H and/or DVB-T standards

Silver is ideal for large deployments where most of the transmitters need to be monitored, and the coverage between transmitters need to be controlled to ensure quality of service of a given area. TV channels and advertisers are sensitive to that quality as they finance DVB-T and DVB-H broadcasting. In DVB-H networks the tendency is to also finance part of the infrastructure through a monthly subscriber fee. Silver is mandatory in both technologies to meet consumer expectations for high quality broadcast services.

In order to achieve the quality of the signal expected, Silver monitors not only the RF layer (with enhanced support for

Single Frequency Networks), but also the MPEG2/DVB-T and DVB-H parameters as applicable.

Silver can be fully controlled via SNMP. Alarms can be configured in order to raise SNMP traps or send emails. UDcast recommends utilisation of its SNMP application to control and monitor Silver equipment - the Broadcast Manager - but any standard SNMP management system may also be used.

Silver is a complement to the Goldeneagle and Navigator monitoring stations from UDcast for large network deployments. Navigator is a mobile monitoring device which compares real coverage with a theoretical model, enabling mobile monitoring campaigns. Goldeneagle units enable fixed monitoring and analysis within the main transmitter zones while the secondary transmitters and subsidiary coverage zones are monitored by Silver.

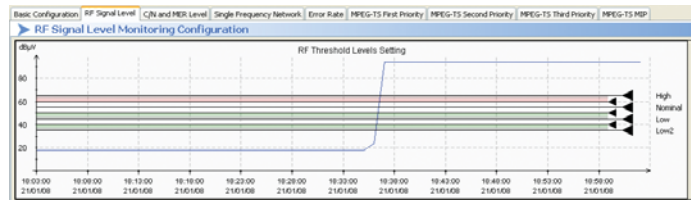
DVB-H/DVB-T Monitoring SILVER

BENEFITS OF SILVER

> Automatic monitoring of DVB-H/DVB-T networks via SNMP

> Alarm customization for:

- DVB-H and DVB-T Multiplexes
- RF, C/N, MER, BER, PER level
- SFN and MIP
- DVB-T services
- DVB-H services



> Transmitter site monitoring via RF signal or through transmitter's monitoring output (ASI or RF)

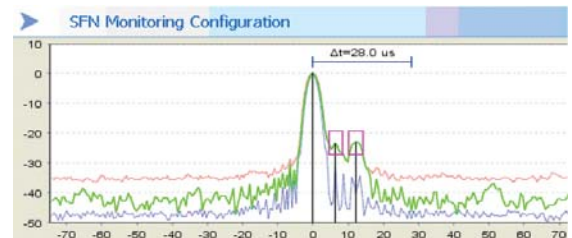
> RF signal monitoring from an antenna for zone coverage

> SFN monitoring option for automatically detecting new transmitters and signal level fluctuation

> Detection of problems in DVB-H / DVB-T services

> Minimized investment to monitor a whole broadcast network

> Easy management via user friendly interface or SNMP (e.g. Broadcast Manager)



SPECIFICATIONS & FEATURES

Hardware Description

- 1RU - 19"
- LEDs in front panel:
 - . On/Off equipment
 - . CPU activity
 - . Alarm status
- RF Module
 - . RF input bands III (174-230 MHz) / IV (470-614 MHz) / V (614-862 MHz)
 - . ASI Output (to be optionally connected to ASI Module for monitoring)
- ASI Module
 - . ASI Input
 - . ASI Output
- Ethernet port management

Management tools

- Software tool provided with the equipment
- Web-based tool
- SNMP configuration (via Broadcast Manager)

RF Layer Monitoring

- Channel bandwidth: 5, 6, 7, 8 MHz
- Modulations QPSK, 16QAM, 64QAM
- FFT Modes 2k, 4k, 8k
- SFN and MFN networks
- RF input from 30 to 90 dBμV
- Measurements of RF level, BER, MER, PER, Carrier/Noise, Modulation, TS sync loss, Sync byte error

MPEG2/DVB-T Layer Monitoring

- DVB-T 1st, 2nd and 3rd priority monitoring (TR101290)
- MIP table monitoring
- Detection of PIDs and bitrates
- Detection of SI/PSI structure changes

DVB-H Layer Monitoring

- Detection of errors in DVB-H structure
 - . Bursts timing errors
 - . Burst coherence and intra burst signalization
 - . MPE-FEC: errors and correction capability

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