DVB-H

Frequency range	Modulation	Source coding	Channel coding	Channel bandwidth	Number of channels	Mobility
VHF: 174 MHz to 230 MHz UHF: 470 MHz to 862 MHz	QPSK, 16QAM, COFDM	H.264	Convolutional and Reed-Solomon FEC	5/6/7/8 MHz	11 video channels 25 audio channels 3 data channels	Up to 200 km/h

DVB-H measurement solutions

	Recommended products	Features/measurements
Signal generation	• **DTV IP Inserter and Generator R&S®DIP 010**	• Time slicing, FEC and signaling of data services via IP/MAC notification table supported for generation of DVB-H-compliant data streams • Insertion of additional data (IP packets) into an MPEG-2 transport stream • Utilization of dedicated MPEG-2 resources (null packets) • Realtime data insertion with up to 15 Mbit/s • Two operating modes: MPEG-2 inserter and MPEG-2 generator • TS interfaces for input and output: ASI, SPI
	• **DTV Recorder Generator R&S®DVRG**	• Playing and recording of DVB/DVB-H transport streams (TS) • Seamless loop TS generation • Huge TS library including DVB-H streams • Support of DVB-H multiprotocol encapsulation, time slicing and forward error correction • Software multiplexer for application-specific DVB/DVB-H TS creation
	• **Broadcast Test System R&S®SFU**	• Complete DVB-H support: 4k mode, FEC, time slicing, in-depth interleaver, TPS carrier signaling • DTV multistandard test platform (100 kHz to 3 GHz) • Large output level range for transmission and chip applications • Digital noise source (AWGN) for channel simulation • Up to 40 paths channel simulation (fading) • Full digital baseband processing • BER measurement • ASI, SPI, SMPTE 310M inputs and test signals
Signal analysis	• **TV Test Receiver R&S®EFA**	• Display of DVB-H signaling (TPS bits) • Display of interleaver mode • 2k and 8k modes supported • Realtime demodulation, analysis and monitoring • Several analog and digital TV standards available • Wide variety of measurement functions • Alarm messages for measurement functions, internal storage • Transport stream output: ASI and SPI • MPEG-2 decoder option
	• **Digital Video Measurement System R&S®DVM 400**	• Realtime and in-depth analysis of DVB/DVB-H transport streams (TS) • Monitoring of up to 20 streams in parallel with one system and advanced measurement • Playing and recording of DVB/DVB-H TS • DVB/DVB-H data broadcast analysis • DVB-H data de-encapsulation

Selected products

R&S®SFU

The multistandard test platform for digital TV with full DVB-H support: Broadcast Test System R&S®SFU.
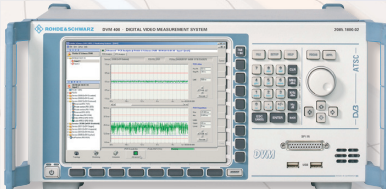

R&S®DVRG

The baseband source for digital video streams: DTV Recorder Generator R&S®DVRG.
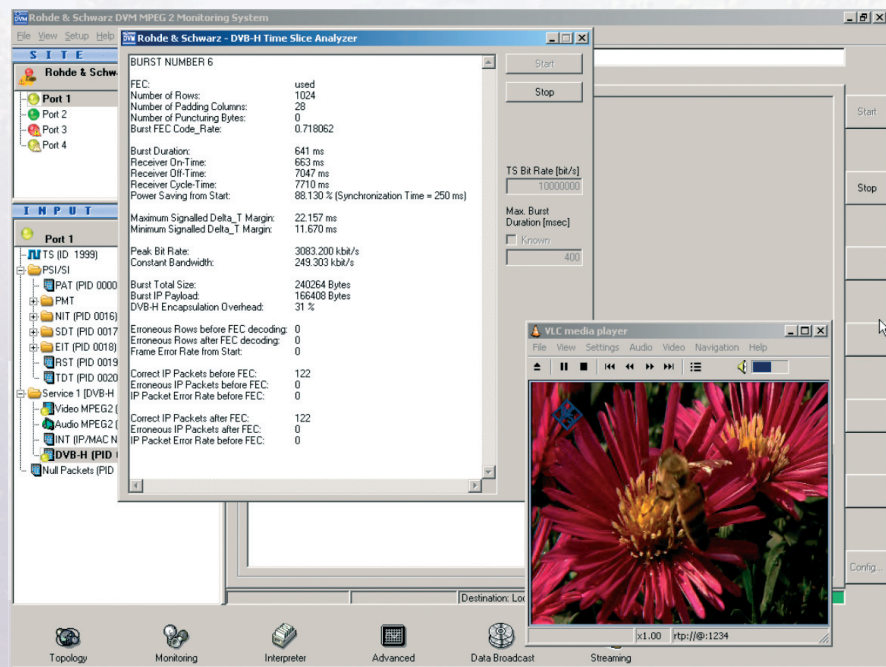

R&S®EFA

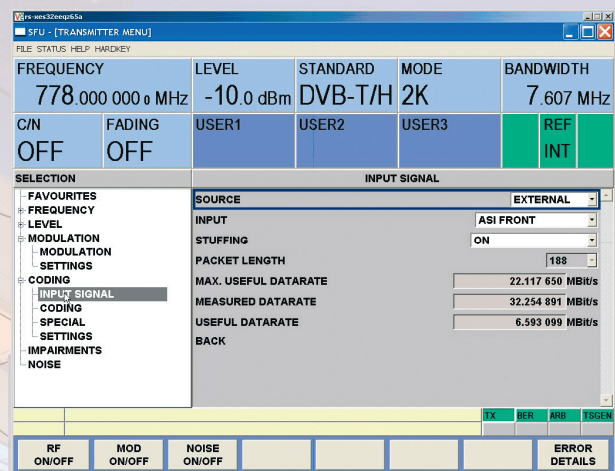First choice for demodulating and analyzing digital video signals: TV Test Receiver R&S®EFA.

R&S®DVM 400

Monitors, analyzes and generates MPEG-2 transport streams: Digital Video Measurement System R&S®DVM 400.

The R&S®DVM 400 provides developers with a wide range of measurement tools for DVB-H, such as the measurement screen for time slice analysis shown here.

All parameters of a DVB-T/H signal can be easily varied with the R&S®SFU.