

Integrated DTV & IPTV Portable Signal Analyzer

- Portable stream and RF signal analyzer(MPEG-2/H.264)
- Multi-standard: DVB, ATSC, ISDB and DTMB, for HD&SD
- Multi-input format: RF, ASI, TSoIP, off-line file,SDI
- In-depth analysis for: IP,TS TR101 290,ES,Video Quality

FEATURES

- Multiple input supported: IP(TSoIP),ASI, RF, file, SDI
- Real time analysis, monitoring and recording of streams
- Provide detailed statics on PIDs, Services, Tables in TS
- User definable TR101 290 templates
- PCR Analysis
- PID grid: compact overview of all PIDs
- Integrated decoder: MPEG-2/H.264, AC3, VC-1(optional)
- Deep decoding of PSI,DVB-SI,DVB-RCS,ATSC-PSIP tables and descriptors
- Support DVB-RCS tables & descriptors: SCT, FCT, SPT, CMT, TBTP, RMT
- Custom descriptors & tables decoding via XML file template
- **Enhanced analysis including(optional):**
 - Teletext, Subtitle decoding, EPG viewer
 - Private data,object/Data Carousels analysis(DSM-CC)
 - Raw packet data display in HEX byte
 - GoP, PTS-DTS timing, buffer behavior
 - Thumb overview
 - 3D side-by-side/Bottom-and-top support
 - Audio viewer(Samples, Equalizer Bars, Frequency Spectrum, Spectrograph and Goniometer Viewer)
 - IP Traffic Viewer
- **ES Analyzer &Video Quality Measurements(Optional)**
 - In-depth analysis of off-line MPEG-1/2,H.264/AVC video steams
 - All coding parameters analysis: from headers down to Micro-block layer
 - Automated video quality analysis and content verification with hot-folder support and HTML Quality Report output
 - Graphs with quality level of MPEG/H.264 video and indication of MPEG artifacts
 - Video Quality Analysis: Subject video quality is rated by MOS ranging from 1(bad) to 5(Excellent)
 - Bit rate, spatial and temporal complexity measurements
 - Parameters: Header Data, Coding type, Macroblock Quantiser, DCT Coefficients, Motion Vectors, Bit Allocation, Slice Structure, Picture Frequency, MOS Measurements, Automated Quality

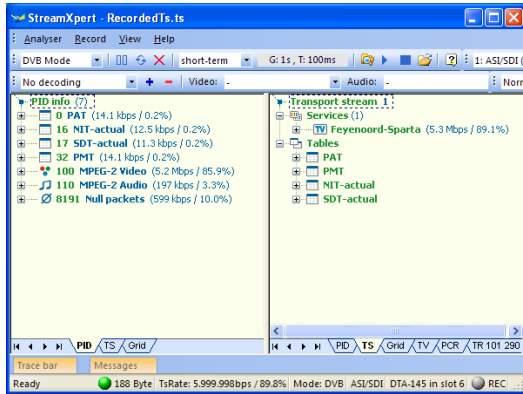


Other Optional Features

- **RF input** compliant to: DVB-S/S2, DVB-T/T2, DVB-C/C2, ATSC/QAM-B/C
 - RF level, MER,BER measurement
 - RF spectrum view(ATSC/QAM only)
 - Constellation
- **SDI Analyzer** and Recording
 - Real time waveform analyzer for SMPTE-259M signals
 - Display picture, YCbCr/RGB waveforms, Vector Scope and peak meter
- **TS-over-IP stream advanced analysis**
 - MDI(Media Delivery Index) measurements: DF(Delay Factor) and MLR(Media Loss Rate)
 - IP Packet Loss, Jitter and Latency
 - RTP packet measurement and monitoring

Applications

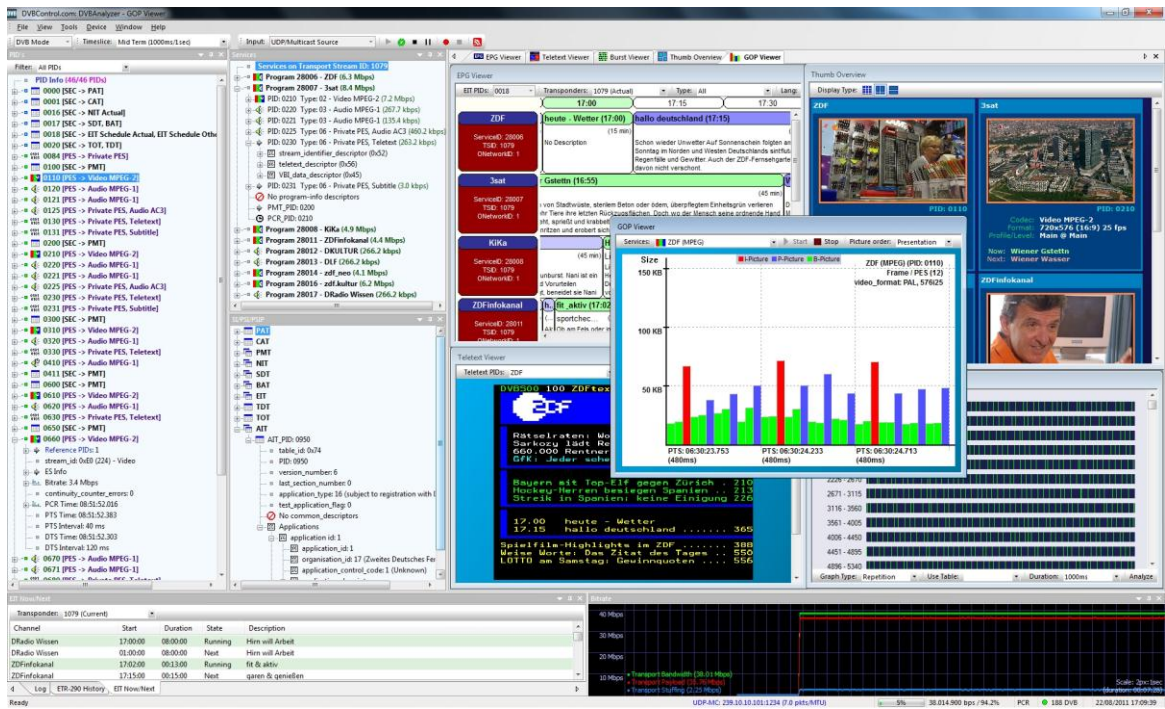
- Truly portable MPEG-2 Stream Analyzer
- Professional Lab tool for real-time IP stream, ASI and SDI analysis
- Stream recording in the field
- Stream files(TS,SDI) analysis



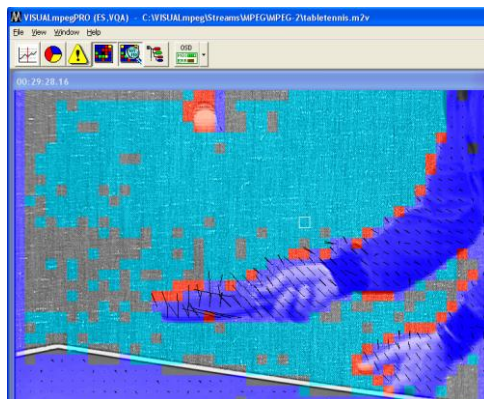
Stream Analyzer: TR101 290 Compliance Check



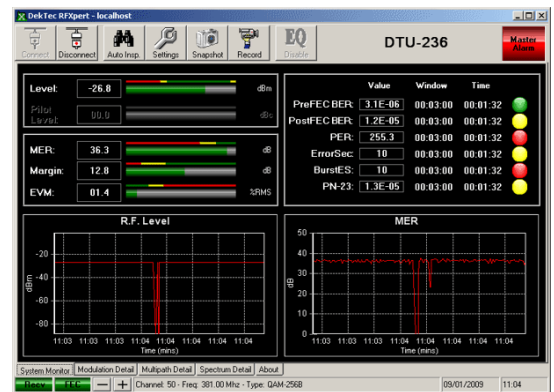
SDI Waveform and Vector Scope



Enhanced Stream Analyzer: EPG viewer, GoP viewer, Thumb overview, Teletext



Elementary Stream Analysis: Detailed MPEG-2/H.264 coding parameters shown in a visual way



RF signal level, MER, BER, and Spectrum view

Specification

H/W Interface Parameter		Value
DVB ASI	Connector	BNC, 75Ω
	Return Loss	≥15dB(5~270Mhz)
	Rx/Tx Rate	0 ~ 214Mbps
	Max. no. of Ports	8, I/O direction configurable
GigE (IP Stream)	Physical	IEEE802.3ab
	Connector	RJ-45,10/100/1000M
	TS Rate Max.	600Mbps
	Protocol	UDP,RTP
TSoIP & FEC		SMPTE-2022
TS File	.ts,.trp,.mpg MPEG-2 transport stream files compliant to IEC 13818-1	
RF	DVB-T/T2	In: 75Ω F connector x2
		Freq:50~860Mhz
		Bandwidth: 6,7,8Mhz
		Support SPLP & MPLP (T2)
	DVB-S/S2	In: 75Ω F connector x2
		Freq: 950~2150Mhz
		Symbol Rate: 1~45Msps
	DVB-C(QAM-A/B/C)	In: 75Ω F connector x2
		Freq:47~862Mhz
Symbol Rate: 5~7.1Msps		

Standards

ATSC VSB	ATSC A53/E
DVB-T/DVB-H	EN300 744
DVB-C	EN300 429, J.83 Annex A
US QAM/QAM-C	J.83 Annex B/C
DVB-T2	EN 302 755
DVB-S/S2	EN 302 307

Electrical and Mechanical

General	CPU: Intel Core 2 Duo T7300 2.0G RAM: 4G DDRIII HDD: 250G 2.5" SATA(500G optional) RS232x2, GigEx1, USBx4 VGAx1, DVIx1
Power Supply	AC Adaptor: 200W, 100V~240V AC; DC: 19V, ATX output 90W
Battery	110Whr,16.8V 6600mAH
Size	425x338x156 mm (HxWxD)
Weight	11KG(with Battery), 10KG(Without Battery)
LCD Screen	15",1024x768, TFT LCD. Touch panel(Optional),17" LCD (optional)
temperature	0~40°C(operation) -20~40°C(optional,operation) -20 ~ 60°C(Storage)
Humidy	5~90%@40°C,non-frozen

Ordering Information

Model	Description
SSE-x	Basic stream analyzer with no.of x ASI ports, including IP stream and file analysis
SSE-E-x	SSE-x plus enhanced analysis option
SSE-Q-x	SSE-x plus ES&video quality analysis option
SSE-R-x	SSE-x plus RF input option
SSE-D-x	SSE-x plus SDI analyzer option
SSE-I-x	SSE-x plus TSoIP enhanced analysis option

* Note: Multi-options can be ordered together, but limited to hardware limitation.