DVB-T/T2, DVB-C/C2, ISDB-T, ASI USB Probe

DTU-238

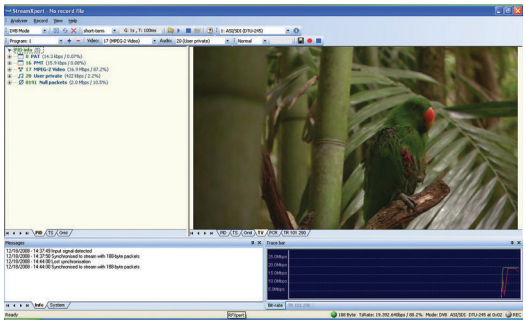
The DTU-238 RF Probe and RFXpert software are a comprehensive solution designed to provide real-time analysis and monitoring of terrestrial and cable signals (DVB-T/T2, DVB-C/C2 and ISDB-T RF channels). The RFXpert software is intended to be loaded by the end-user on a PC or laptop and work in conjunction with the DTU-238 RF Probe. RFXpert provides complete RF analysis and logging, along with transport stream recording.

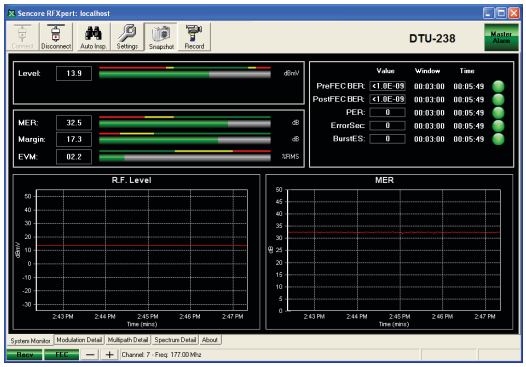
RFXpert provides easy-to-read spectral displays, both constellation and eye diagram displays, and the ability to see rotated DVB-T2 constellations in their true orientation.

- True demodulated digital reading for MER, Pre-BER and Post BER.
- A proof-positive method of signal documentation or drop-point comparisons with programmable, user defined logging and auto-inspection capabilities

Adding StreamXpert 2.0 to a DTU-238 makes for a cost-effective and user-friendly MPEG2/H.264/HEVC transport stream analyzer. Signals can be analyzed from either the ASI or RF inputs of the DTU-238 and can be validated against industry standard ETR101-290 templates. Transport streams can also be captured in the field with StreamXpert 2.0 for later use.

- Real-time analysis, monitoring and recording of MPEG Transport Streams
- PCR Accuracy and ETR101-290 checking
- Integrated HEVC/H.264/MPEG2 video decoding with MPEG, AAC, AC3 and AC4 audio support





SPECIFICATIONS

DVB-T/T2, DVB-C/C2, ISDB-T, ASI USB Probe DTU-238

DTU-238 RF PROBE

RF INPUT

Connector:	75 Ω type 'F'
Frequency:	42-1002 MHz
Signal Level:	-40 to 50 dBmV
Modulation:	DVB-T/T2, DVB-C/C2, ISDB-T(b)

ASI INPUT

Connector:	75 Ω BNC
Receive Bitrate:	0.5-213 Mb/s

POWER

Source:	USB 2.0 port of host PC
Voltage:	+5 VDC
Current:	>500mA*

*dual USB connections to PC

DIMENSIONS

Physical:	7.1" x 4.2" x 1.4"
Weight:	< 1 lb.

RFXPERT

RF TESTS

Level Measurement:	-40 to 50 dBmV, 0.1 dB resolution +/- 1 dB accuracy, -10 to 10 dBmV +/- 2 dB accuracy, -30 to -10 dBmV and 10 to 50 dBmV
MER:	up to 40 dB (measured from constellation)
EVM:	down to 0.5% RMS
BER:	Pre/Post FEC, PER, Errored Seconds
Modulation Displays:	Constellation and Eye diagram
Spectrum Display:	Channel (6-8 MHz), Adjacent (18-24 MHz), Full (42-1002 MHz)
Impulse Response	

LOGGING

Type:	Interval and Alarms
Auto Inspect:	Automatic analysis and logging of a channel plan
File:	User-defined, limited by host hard drive space

MINIMUM PC / LAPTOP REQUIREMENTS

Operating System:	Windows XP/2003/Vista/7/8/10, 32/64 bit
USB:	USB 2.0 for communication/power
Processor:	Pentium 4 or better
RAM:	512 MB minimum

STREAMXPERT

STANDARDS

MPEG2, DVB, ATSC
DVB-SI, ATSC-PSIP, DVB-RCS

AUDIO

MPEG1/2, (HE-)AAC, AC3, AC4

VIDEO

MPEG2, H.264, HEVC

FEATURES

Audio/video decoding
Bitrate measurement
Elementary stream info
PCR analysis
PID grid
Recording
SI decoding with user Templates
TR 101 290 monitoring

MINIMUM PC / LAPTOP REQUIREMENTS

Windows XP/2003/Vista/7/8/10, 32/64 bit
P4 * and mid-class graphics card for software decoding of SD video
Corei5/i7* and high-end graphics card for software decoding of HD video

*or equivalent AMD processor