



DTU-238

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

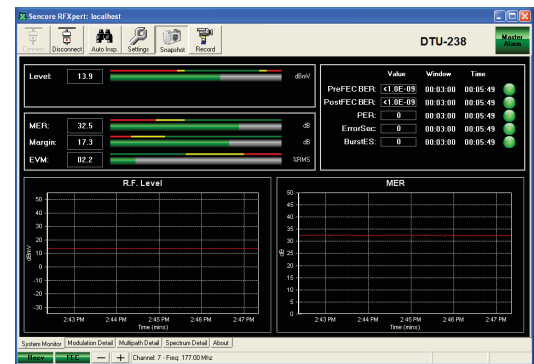
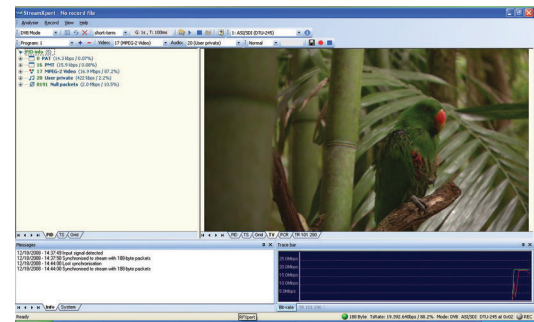
The DTU-238 RF Probe and RFXpert software are a comprehensive solution designed to provide real-time analysis and monitoring of terrestrial and cable signals (DVB-T/T2, DVB-C/C2 and ISDB-T RF channels). The RFXpert software is intended to be loaded by the end-user on a PC or laptop and work in conjunction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



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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)
down to 0.5% RMS
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

STREAMXPRT

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