

1GHz QAM/8VSB/ASI USB Probe

DTU-236A



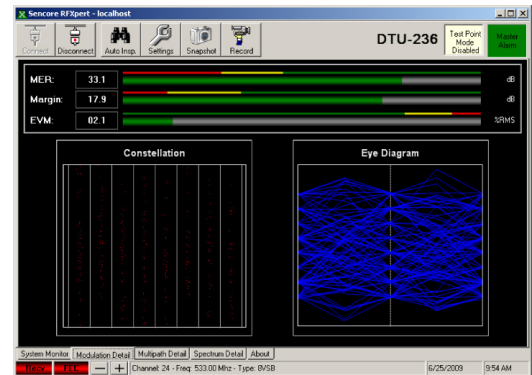
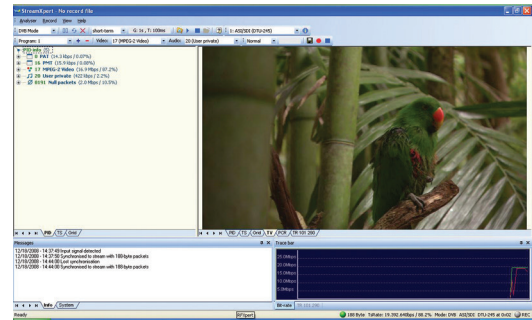
The DTU-236A RF Probe and RFXpert software are a comprehensive solution designed to provide real-time analysis and monitoring of terrestrial and cable signals (8VSB, QAM A/B/C and NTSC RF channels). The RFXpert software is intended to be loaded by the end-user on a PC or laptop and work in conjunction with the DTU-236A RF Probe. RFXpert provides complete RF analysis and logging, along with transport stream recording.

RFXpert provides easy-to-read spectral displays and both constellation and eye diagram displays for at-a-glance issue identification.

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

Adding StreamXpert to a DTU-236A makes for a cost-effective and user-friendly MPEG2/H.264 transport stream analyzer. Signals can be analyzed from either the ASI or RF inputs of the DTU-236A and can be validated against industry standard ETR101-290 templates. Transport streams can also be captured in the field with StreamXpert for later use.

- Real-time analysis, monitoring and recording of MPEG Transport Streams
- PCR Accuracy and ETR101-290 checking
- Integrated MPEG2/H.264/VC-1 video decoding with MPEG, AAC and AC3 audio support



SPECIFICATIONS

1GHz QAM/8VSB/ASI USB Probe DTU-236A

DTU-236A RF PROBE

RF INPUT

Connector: 75 Ω type 'F'
Frequency: 44-1002 MHz
Signal Level: -40 to 50 dBmV
Modulation: 8VSB, QAM A/B/C, NTSC
Band: Broadcast, FCC Cable, IRC, HRC Cable, Manual Tuning

ASI INPUT

Connector: 75 Ω BNC
Receive Bitrate: 0-214 Mbp/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, -40 to -10 dBmV
and 10 to 50 dBmV
MER: 15 to 38 dB (measured from constellation)
EVM: 2.3 to 16.5% RMS
BER: Pre/Post FEC, PER, Errored Seconds
Modulation Displays: Constellation and Eye diagram
Echo Profile: -2.3 to +40 μ S delay range, 0 to -30 dBc
echo level
Spectrum Display: Channel (6-8 MHz), Adjacent
(18-24 MHz), Full (44-1002 MHz)

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, 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

VIDEO

MPEG2, H.264, VC-1

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, 32/64 bit
P4 * and mid-class graphics card for software decoding of
SD video
Core2 or Corei5/i7* and high-end graphics card for software
decoding of HD video

*or equivalent AMD processor