



DTU-236A

1 GHz QAM/8VSB/ASI USB Probe

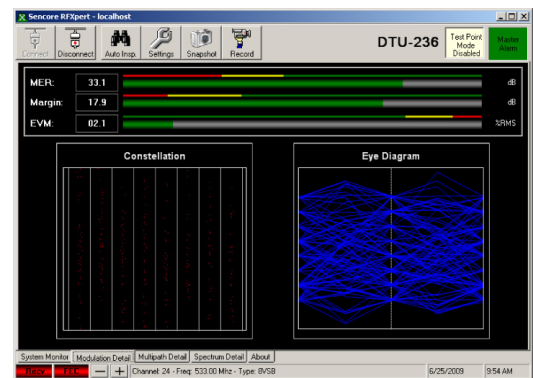
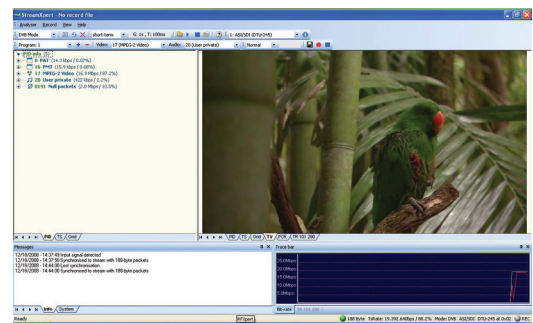
The DTU-236A RF Probe and RFXpert software are a comprehensive solution designed to provide real-time analysis and monitoring of terrestrial and cable signals (8VSB, QAM A/B/C and NTSC RF channels). The RFXpert software is intended to be loaded by the end-user on a PC or laptop and work in conjunction 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, both constellation and eye diagram displays, and the ability to turn off and on 8VSB tap equalization to see the uncorrected signal being received.

- 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



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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 μS 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, 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

VIDEO

MPEG1/2, (HE-)AAC, AC3

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, 32/64 bit
P4 1.7 GHz* 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