

## Portable DOCSIS™ Protocol Analyzer for DOCSIS Problem Solving in HFC Networks

### FEATURES

- Measure individual Cable Modem MER by filtering on CM MAC Address
- Capture all DOCSIS-based communications directly from the RF plant
- Uses popular Ethereal network analyzer for detail IP data traffic analysis
- Filter and trigger on DOCSIS Protocol or MAC Address
- Monitor traffic to and from a specific MAC address
- Supports remote access and control for IT / Engineering support
- Completely portable and integrated test system
- Rugged, field hardened all aluminum case

### APPLICATIONS

- Resolving complex DOCSIS related problems
- Identify modems with poor MER performance
- Resolve DHCP and TFTP server errors
- Resolve BPI/BPI+ registration issues
- Analyze VoIP applications
- Detect DOCSIS violations and inter-vendor conflicts
- Test security risks at RF
- Trigger and log network events to disk for analysis
- Remotely monitor specific cable modems and CMTSs

### ORDERING INFORMATION

ST-261 North America DOCSIS

ST-261E Euro-DOCSIS

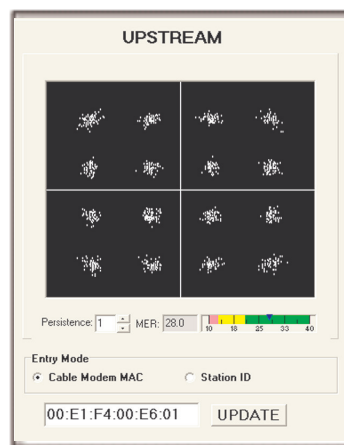
Product includes:

Windows 2000 OS

DOCSIS Test Suite

Padded Nylon Carry Case

The ST-261 is the only DOCSIS Protocol Analyzer available. It provides complete analysis of DOCSIS network performance from Cable Modem and CMTS Modulation Error Ratio (**MER**) to IP data. The ST-261's advanced demodulation technology enables system operators to quickly identify and resolve DOCSIS problems whether they are due to RF or data-related impairments



### RF ANALYSIS TOOLS

- Measure Downstream MER
- Measure individual Cable Modem (Upstream) MER via MAC Address Filtering
- Trend analysis of Cable Modem MER, power, frequency, timing, EQ changes

### PAYLOAD ANALYSIS

- Capture and analyze Cable Modem Registration & BPI registration problems
- Analyze over 500 data protocols using the popular Ethereal protocol analyzer
- Analyze session based problems such as DHCP and TFTP server errors
- Analyze application-based problems such as VoIP jitter, delay, and frame loss

### RF PERFORMANCE

- Downstream 88 - 860 MHz, 64-QAM or 256-QAM, Annex A and Annex B
- Upstream 5 - 65 MHz, QPSK and 16-QAM
- Input Level 0 dBmV +/- 10 dB via 75 ohm 'F' connectors

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