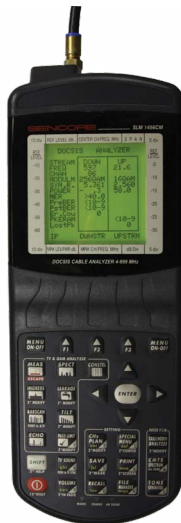


Signal Level Analyzer with DOCSIS SLM1456CM



The SLM 1456CM provides everything installers and operators are looking for in a signal level meter - analog and digital measurements, including Pre/Post BER, MER, Spectral Display, DOCSIS 2.0 Network Testing, and Leakage and Ingress Testing capabilities - all at an affordable price.

APPLICATIONS

- CATV installation and troubleshooting
- Off-air 8-VSB reception-broadcast footprint quality
- Private cable systems in schools, corporate campuses, correctional institutions and medical centers
- Custom home theater installation and calibration

KEY FEATURES

- Use the SLM 1456CM for upstream modem measurements. Ping the head-end and retrieve MAC and IP information.
- Digital measurement capabilities including: Average power, Pre/Post BER, MER, and Constellation for QAM
- All Channel/Frequency Tuning: From 5-1000 MHz allowing return path signal testing as well as testing high-frequency channels with ease
- One of the only meters available that provide measurements for 8-VSB ATSC signals
- Analog measurement capabilities including Signal level, A/V ratio, C/N, and HUM
- Ingress testing allows for testing both the forward and return path from the ground block or line extender to ground block for unwanted noise
- Full featured spectral display enables the operator to view all channels, single channel, or a bar graph display for a quick view of all your channels
- Signal leakage testing capabilities insure every installation is clean and meets system specifications
- Data logging that enables the technician to save and print all data for future reference or record of completed installations

SPECIFICATIONS

Signal Level Analyzer with DOCSIS SLM 1456CM

AUTOMATED OR MANUAL SPECTRUM ANALYSIS

Frequency Range:	TV and Radio 5-1000 Mhz
Frequency Resolution:	62.5 KHz
Input Impedance:	75 ohms
Dynamic Range:	15 dBuV to 125 dBuV or -45 to +65 dBmV or -98 to +16 dBm
Measurement Resolution:	0.1 dB
Level Measurement Acc:	1 dB typ. (2 dB max.)
A/V Ratio:	1.5 dB typ. (2 dB max.)
C/N Ratio:	2 dB typ. (4 dB max.)
Measure Filter Bandwidth:	100 KHz @ -3 dB
Channel Plan Memory:	600 Memory Positions

DIGITAL MEASUREMENTS 8-VSB, QAM 16-32-64-256 (Annex A/B/C)

Frequency Band:	5-1000 Mhz
Power Measurement	
Dynamic Range:	From -35 to 56 dBmV
BER Measurement:	bBER up to 1×10^{-8}
(after Reed Solomon)	aBER up to 2×10^{-9}
MER Measurement:	17 dB to 36 dB
Constellation Display:	64-128-256 (on graphics display)

DOCSIS MEASUREMENTS

DOCSIS 2.0 Compliant Device

Frequency Band:	5-1000 Mhz
Input Impedance:	75 ohms
Range:	-45 to +65 dBmV
Measurements Include:	Level, MER, Pre/Post BER, Lost Packet, Transmit Power, Transmitted Packets, Received Packets, PER, Latency Min/Max/Avg
MAC Address:	Default or User Defined
Measurements Status	for Downstream, Upstream, and IP

GENERAL SPECIFICATIONS

Voltmeter Function:	AC (Square wave) DC, 0-100V
Channel Plan Master Copy:	Optional via PC
Power Supply:	Built-in NI-CD rechargeable battery External Power Supply 17 VAC or 20 VDC 1A
Battery Duration at 25°C:	4-6 Hours in Analog 3-4 Hours in Digital
Size:	H 11.8" x W 4.33" x D 2.36"
Download Port:	RS-232 standard serial port
Display:	128 x 128 pixels, 2.5" square