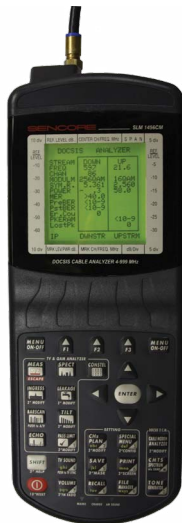


# Signal Level Analyzer with DOCSIS

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 $1 \times 10^{-8}$
(after Reed Solomon)	aBER up to $2 \times 10^{-9}$
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