

Portable Cable/Digital TV RF Analyzer

SLM 1479



OVERVIEW

The portable SLM 1479 cable/digital TV RF analyzer answers the needs of TV and cable installers and technicians in today's broadcast and high speed cable TV video delivery networks. It is capable of testing and analyzing digital TV/RF formats including QAM, 8VSB (ATSC) and NTSC from 5 MHz to an extended 1250 MHz.

The meter provides in-depth RF measurements including MER, BER, PER, EVM, noise margin, constellation and, spectral analysis. It includes simple pass or fail quality indications for easy interpretation of results. Additionally, the SLM 1479 decodes live video and audio from clear streams and displays MPEG information such as service names, video/audio program IDs and MPEG format descriptors.

With its color touchscreen display, the SLM 1479 user interface eliminates the need for multiple menus and push-button, and it achieves the ultimate in user friendliness. The display offers easy to interpret graphs and results as well as live spectral and constellation diagrams for thorough troubleshooting. The SLM 1479 also offers a LAN port for remote connectivity and downloading the results of its automated pass/fail test for system documentation and record keeping.

The SLM 1479 is designed to meet the rigors of everyday field use with a rugged display that is both dependable and viewable even in the brightest sunlight. It also includes a padded nylon case with all the straps and handles a user could want.

ORDERING INFORMATION

Module	Feature
SLM 1479-ATSC6	Base model with QAM-B/8VSB
SLM 1479-OPTICAL-OPT	Optical input option

APPLICATIONS

- Professional installation and troubleshooting of digital TV broadcasts, cable TV digital or analog reception and distribution paths
- Antenna alignment for private TV/RF distribution systems in schools, campuses and hospitality networks
- Maintenance and testing of digital or analog RF equipment, such as modulators, receivers and decoders

KEY FEATURES

- 7" high-resolution touch screen user interface simplifies navigation and makes complex measurement tasks easy
- H.264 and MPEG-2 video decoding; MPEG, AAC, HE-AAC, Dolby AC3 and E-AC3 (DD+) audio decoding
- Extended RF frequency range from 5 to 1250 MHz
- Digital RF measurements including average power/level, pre/post BER, MER, Noise Margin, spectral analysis, and constellation
- Advanced installer meter features including INGRESS mode, LEAKAGE mode, BARS SCAN and TILT
- Optional optical power meter with interchangeable FCST-SC connector for fiber optic testing (FTTH & FTTX) and troubleshooting
- User definable channel scan testing /logging with automatic quality analysis: FAIL-PASS-MARG
- Alpha/numeric keypad for direct channel/frequency selection
- SMART software PC interface for meter upgrades, channel plans and AutoScan testing/logging management
- Weighs only 3.5 lbs. (1.6 kg), H 5.5 x L 9.5 x D 2 inches (14 x 24 x 5 cm)
- Up to 4 hours active battery life with automatic battery saver
- Supplied with padded nylon case, accessories, AC power adapter and vehicle battery charger

SPECIFICATIONS

Portable Cable/Digital TV RF Analyzer - SLM 1479

LEVEL MEASUREMENT AND SPECTRUM ANALYSIS

Frequency Range	5 to 1250 MHz
Frequency Resolution	25 kHz
RF Input Impedance	75 Ω (interchangeable F-Type connector)
Dynamic Range	1~125 dBuV (-59~65 dBmV, -112~16 dBm)
Measurement Resolution	0.1 dB
Level Measurement Accuracy	1 dB typ., 2 dB max.
A/V Ratio	<22 \pm 1.5 dB (2 dB max.)
S/N Ratio	<45 \pm 1.5 dB, 45~50 \pm 2 dB
Resolution Filter Bandwidth	100 kHz @ -3 dB

DIGITAL MEASUREMENTS

BER Measurement	Pre and Post to 1 x 10 ⁻⁹
MER Measurement	<40 dB
MER Accuracy	1 dB typ., 2 dB max.B

INGRESS MEASUREMENTS

Frequency	5~65 MHz
Level	5~125 dBuV
Accuracy	\pm 2 dB
Bandwidth	100 kHz @ -3 dB

LEAKAGE MEASUREMENTS

Frequency Range	115~140 MHz
Resolution	25 kHz
Antenna type	Selectable

OPTICAL MEASUREMENTS (OPTIONAL)

Wavelengths	850, 1310, 1490 and 1550 nm
Range	-25~10 dBm
Resolution	0.1 dB
Accuracy	\pm 0.5 dB

PORTS

RF Input	75 Ω Female (F-Type)
LAN	RJ45 10/100 Ethernet
USB PC Interface	USB 2.0 Type B
USB Host	USB 2.0 Type A (for flash drives)

GENERAL SPECIFICATIONS

Battery	Internal lithium-polymer, rechargeable
Battery Duration	4 hours typical at 25 °C
Power Supply	External, 12 VDC, 1A
Weight	3.5 lbs. (1.6 kg)
Dimensions	H 5.5 x L 9.5 x D 2 inches (14 x 24 x 5 cm)
Display	Color touchscreen LCD 7" (480 x 800 px)
Operating Temperature Range	0~50 °C
Storage Temperature Range	-25~70 °C
Humidity	Up to 90% non-condensing
Front-Panel	Alphanumeric keypad
Power Save	TFT backlight timer, brightness adjust
PC Management	SMART software
Video Decoding	MPEG-2, MPEG-4/AVC/H.264 (SD/HD)
Audio Decoding	MPEG, AAC, HE-AAC, Dolby AC3, E-AC3 (DD+)

STANDARD ACCESSORIES

Padded nylon carry case and strap
USB 2.0 cable
AC adapter
12V automotive charging cable
RF and optical interchangeable connectors