

# DIGITAL SIGNAL METER



## Product Overview:

Analog signal measurements are addressed with standard features like RF signal level, full scan, TILT, in-service C/N, A/V, and FCC compliant auto-testing. The Digital Signal Level Meter is designed to provide ideal solution for cable TV network, to ensure that on-site technicians are fully equipped with the optimal equipment they need to make rapid and accurate analysis.

## Specifications:

Digital Power (Channel Power) Measurement

Signal Types: QPSK, QAM, COMDF, random waveform

Accuracy:  $\pm 2$  dB (0°C~40°C)

Resolution: 0.1dB

QAM Analysis

Modulations type: 16/32/64/128/256QAM DVB-C; ITU-TJ.83-AnnexA/AnnexB

Symbol Rate: 1.00Mbps ~7.00Mbps

Bandwidth: 6MHz~10MHz

Frequency tuner: 50 KHz

MER measurement range: 19~38dB $\pm$ 2dB

BER Pre/post FEC measurement range: 10E-2 to 10E-9

Frequency:

Range: 5MHz—870MHz

Accuracy:  $\pm 50$ ppm (20°C  $\pm$  5 °C)

Resolution: 10kHz

Level Measurement:

Range: 20dBuV—120dBuV

Accuracy: LEVEL (> 35dBuV)  $\pm 1.5$ dB (10°C to 30°C)

SCAN  $\pm 2$ dB (10°C to 30°C)

Resolution: 0.1dB

Input Impedance: 75ohm (unbalanced, BNC or F type connector)

Wave detection: peak value

Channel Scan:

Number of Channels: 200 channels max.

Scanning speed: 4 channels / sec

Zoom: 1X, 2X, 4X three levels of magnification or full Channel Plan scan.

Memory: 100 Groups, each group store Max 200 Channels.

Spectrum Analysis:

Bandwidth: Ranging between 10MHz, 25MHz, 50MHz, and full span.

Carrier-Noise Ratio (C/N):

Input range: 70dBuV—105dBuV

Accuracy:  $\pm 2$ dB Resolution: 0.1dB

Digital Channel (Average) Power:

Bandwidth: 0~9MHz

Center Frequency: 5MHz to 870MHz

Digital modulation: QAM, QPSK

Tilt measurement:

Number of channels: 5~12

Resolution: 0.1dB

Trunk Voltage measurement:

Input range: 0-100VAC

Accuracy:  $\pm 1.5$ V Resolution 0.1V

Others:

Channel Plan:

Number of Channels: 200 channels max.

Number of Learned Channel Plan: 10 max, including 2 users defined.

Audio Output: Built-in speaker

Dimensions: 210mm X 95mm X 50mm

Gross Weight: 1.4kg Net Weight: 0.60kg

Display: 320 X 240 Color LCD with backlight

Power Supply:

Battery: 7.2V 1.6AH Ni-MH battery,

Charger: AC 100V-240V/50Hz

Working Time: Average 4-7 hours (full charged battery).

Charging Time: 5-10hrs.