

D202 Signal Level Meter

D202 comes with a solution that can handle digital TV and maintain the analog spectrum, enable technicians to use it in the most demanding situations with a single, rugged instrument, wherever it is needed.

The new QAM View digital analysis option adds forward path digital signal testing that includes constellation, pre/post FEC BER, MER. 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 RA2009 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.



Key Features

- 5MHz ~870MHz
- Large 320*240 color LCD display with back light
- DVB analysis, MER, BER, Constellations, average power
- Single channel test and single frequency test, V/A, C/N, TILT, Trunk voltage,
- Full scan, single channel spectrum analysis, spectrum analysis of other range,
- Extended and flexible data storage, data logging, easy upload and download data via PC.
- More learned channel plans, changeable through PC
- Limit measurement and automated FCC proof of performance test.

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·Performance LCD

The meter has a 320*240 enlarged color LCD and the new screen graphics enhance readability and simplify operations.

·Ideal for digital and analog network

Enables analysis and quality measurements of digital TV and analog TV. Enables easy operation of networks for interactive services with a 5 to 870MHz fast, sensitive spectrum analyzer.



·Digital measurement

The meter lets you take the direct measurement of QAM signals average power measurement, digital analysis op on is available for forward path digital signal testing that includes pre/post FEC BER, MER, constellation.

·Analog measurement

The meter can display all channels in a single view. Amplitude measurement is displayed individually, as a group, or as a full-span display. Direct channel input of channel numbers, simultaneously displays video carrier and audio carrier strength, and V/A measurement. Tilt measurement of 5-12 user definable channels. Carrier-to noise ratio measurement, trunk voltage measurement.



·Single channel spectrum

It features a single-channel spectrum mode which displays the presence of interfering beats in addition to carrier.

·Limit and auto measurement

Limit measurement and automated FCC proof of performance test, Auto measurement

·More channel plans

Up to 10 learned channel plans, changeable through PC, also has 2 user defined channel plans, available to define the favorite channels from basic channel plan.



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•Data logging

The meter can save files for level, spectrum, scan, limit test and auto-test measurements, these files can be recalled to view the recorded data via RS-232C port.

•Durable and compact

It's durable, simple to use in a wide range of conditions. The tough plastic shell and protective jacket make it highly resistant to damage from shock and impact.

•High performance batter

Battery-powered handheld model, Internal Ni-MH battery with included charger.

Battery life: more than 5 hours

•Cost effective and efficient

Reduces testing and troubleshooting times for network analysis and qualification

Specification:

Digital Power (Channel Power) Measurement

Signal Types: QPSK, QAM, COMDF, random waveform

Accuracy: $\pm 2\text{dB}$ ($0^\circ\text{C} \sim 40^\circ\text{C}$)

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 $\pm 2\text{dB}$

BER Pre/post FEC measurement range: $10\text{E}-2$ to $10\text{E}-9$

Frequency:

Range: 5MHz—870MHz

Accuracy: $\pm 50\text{ppm}$ ($20^\circ\text{C} \pm 5^\circ\text{C}$)

Resolution: 10kHz

Level Measurement:

Range: 20dBuV—120dBuV

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

SCAN $\pm 2\text{dB}$ (10°C to 30°C)

Resolution: 0.1dB

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

Wave detection: peak value



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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: ± 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: ± 1.5 V Resolution 0.1V

Others:

Channel Plan:

Number of Channels: 200 channels max.

Number of Learned Channel Plan: 10 max, including 2 user 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: 5-10 hrs