

Probiom QAM™

Rugged Comprehensive Handheld QAM/DVB-C Digital Signal Analyzer. Measures Signal Strength, BER, MER, Constellations, etc. 5 to 870 MHz Fast, Sensitive Spectrum Analyzer. Ideal Cable System QAM Analyzer for Field or Head End RF Analysis. Suitable for Digital and Analog Networks.

Features

- RF Signal Quality Analyzer
- Digital measurements:
 - Average power, pre/post FEC BER, MER, constellation
- Analog measurements:
 - Amplitude measurement (displayed individually, as a group, or as a full-span display)
 - Simultaneously displays video carrier and audio carrier strength, and V/A measurement
 - Carrier-to noise ratio
 - Trunk voltage
 - Tilt measurement of 5-12 user definable
- Single-channel spectrum mode displays the presence of interfering beats in addition to carrier
- Full scan, single channel spectrum analysis, spectrum analysis of other ranges
- Extended and flexible data storage and data logging
- Up to 10 learned channel plans
- Two user defined channel plans
- Limit measurement and automated FCC proof of performance testing
- Data logging – save files for level, spectrum, scan, limit test and auto-test measurements
- Large 320x240 color LCD display with back light
- High performance battery
- Durable and compact

Applications

- Digital Cable broadcast test and monitoring
- RF reception quality measurement
- Head end or field testing



Overview

Portable QAM analyzers are very useful for cable trouble shooting.

The Probiom QAM™ comes with a solution that can handle digital TV and maintain the analog spectrum, enabling 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, and 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 Probiom QAM provides an ideal solution for cable TV networks, to ensure that on-site technicians are fully equipped with the optimal equipment they need to make rapid and accurate analyses.



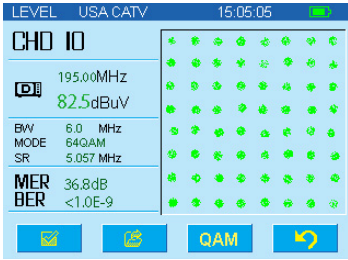
Computer Modules, Inc.

11409 West Bernardo Court
San Diego, CA 92127

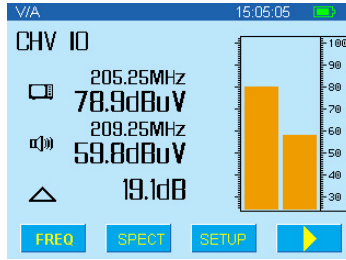
Tel: 858-613-1818 Fax: 858-613-1815

www.dveo.com

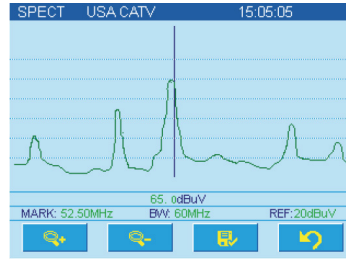
Sample of GUIs



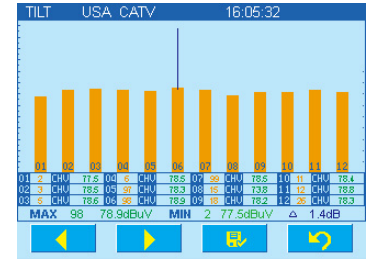
Single Digital Channel Measurement – Constellation



Single Analog Channel Measurement



Spectrum Analysis



TILT Measurement

Specifications

Digital Power (Channel Power) Measurement

Signal Types:	QPSK, QAM, COMDF, random waveform
Accuracy:	±2 dB (0°C~40°C)
Resolution:	0.1 dB

QAM/DVB-C Analysis

Modulation:	16/32/64/128/256 QAM/DVB-C ITU-TJ.83-Annex A/Annex B
Symbol Rate:	1.00 Mbps ~7.00 Mbps
Bandwidth:	6 MHz~10 MHz
Frequency Tuner:	50 KHz
MER measurement range:	19~38 dB ± 2 dB
BER Pre/post FEC measurement range:	10E-2 to 10E-9

Frequency

Range:	5 MHz~870 MHz
Accuracy:	± 50 ppm (20°C ± 5 °C)
Resolution:	10 kHz

Channel Type

Analog TV:	TV
Digital TV:	QAM, QPSK
FM Channel:	Single frequency

Level Measurement

Range:	20dBuV—120dBuV
Accuracy:	LEVEL (> 35 dBuV) ± 1.5 dB (10°C to 30°C)
SCAN:	±2dB (10°C to 30°C)
Resolution:	0.1dB
Input Impedance:	75 ohm (unbalanced, BNC or F type connector)
Wave detection:	Peak value

Spectrum Analysis

Bandwidth:	Ranges between 10 MHz, 25 MHz, 50 MHz, and full span
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Channel Scan

Number of Channels:	200 channels maximum
Scanning Speed:	4 channels per second
Zoom:	1X, 2X, 4X – three levels of magnification or full Channel Plan scan
Memory:	100 groups, each group stores max. 200 Channels
Learned Channel Plans:	10 maximum, including 2 user-defined

Carrier-Noise Ratio (C/N)

Input range:	70dBuV—105dBuV
Accuracy:	±2 dB Resolution: 0.1 dB

Digital Channel (Average) Power

Bandwidth:	0~9 MHz
Center Frequency:	5 MHz to 870 MHz
Digital modulation:	QAM, QPSK

Tilt measurement

Number of channels:	5~12
Resolution:	0.1 dB

Trunk Voltage measurement

Input range	0-100 VAC
Accuracy:	± 1.5V Resolution 0.1V

Audio

Audio Output:	Built-in speaker
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Physical and Power

Dimensions:	9.5 x 3.8 x 2 inches (241 x 96 x 50 mm)
Weight:	1.4 lbs. (0.64 kg)
Display:	320 X 240 Color LCD with backlight
Battery:	7.2V 1.6AH Ni-MH battery
Charger:	AC 100V-240V/50Hz
Working Time:	Average 4-7 hours (fully charged battery)
Charging Time:	5 to 10 hours

Ordering Info

Probiom QAM Signal Level Meter – includes software, battery, F-connector, charger, and upgrade cable