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 Probium 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 Probium 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.
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-T J.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: 0.1 dB
- 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

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

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
Probium QAM Signal Lever Meter – includes software, battery, F-connector, charger, and upgrade cable

Sample of GUIs
- Single Digital Channel Measurement – Constellation
- Single Analog Channel Measurement
- Spectrum Analysis
- TILT Measurement

Specifications are subject to change without notice.