



BT-QAM-PRO

QAM / 8VSB / ANALOG TV ANALYZER

KEY FEATURES

- » MER, aBER, bBer, Noise Margin & Level Measurements
- » Spectrum Display
- » Constellation Display
- » Barscan Display
- » Data Logger
- » Custom Memory Plans
- » Leakage/Ingress Measurements



MEASUREMENT & SPECTRUM ANALYSIS

- » **Frequency Range:** 5 MHz to 1,000 MHz (Channels T7 to 158)
- » **75 Ω** (interchangeable “F” connector)
- » **Power Range:** -50 dBmV to 40 dBmV
- » **Spectrum Display** with Variable Span, Automatic Reference Level, Peak and Hold Modes
- » **Quality FAIL - MARGINAL - PASS:** Measuring the quality and the power up to 140 CHs in blocks of 8 Digital or Analog channels simultaneously
- » **Barscan:** TV analog and digital bars scan from 10 to 100 channels
- » Fully Automatic Operation

PRODUCT OVERVIEW

The **BT-QAM-PRO** is an economical feature packed test instrument for analyzing CATV QAM and Broadcast 8VSB digital channels, as well as NTSC analog channels.

This compact instrument is designed with field service technicians in mind, and provides many of the features that are typically only found in much higher priced units. The BT-QAM-PRO comes complete with a soft water resistant case and a micro USB charging/PC cable.

ORDERING INFORMATION

| MODEL | STOCK# | DESCRIPTION |
|------------|--------|-----------------------------|
| BT-QAM-PRO | 4229 | QAM/8VSB/Analog TV Analyzer |

MEASUREMENT & ANALYSIS

| | |
|-----------------------------|---|
| Connector | 1x Type "F" (interchangeable connector) |
| Frequency Range | 5 - 1000 MHz |
| Frequency Resolution | 25 KHz |
| RF Input Impedance | 75 Ω |
| Power Range | -50 dBmV to 40 dBmV (10 to 100 dB μ V); 60 dBmV (120 dB μ V) with ext. attenuator |
| Measurement Resolution | 0.1 dB |
| Level Measurement Accuracy | 1 dB typical (2 dB max.) |
| A/V Ratio | up to 22 dB, +/- 1.5 dB (2 dB max.) |
| S/N Ratio | up to 45dB +/-1.5 dB Max; 45-50dB +/-2dB |
| Resolution Filter Bandwidth | 100 KHz @ -3 dB |
| Custom Channel Plans | 25 (199 ch. per plan) |

POWER & DIGITAL MEASUREMENTS

| | |
|---------------------------|---|
| Frequency Band | 5 - 1000 MHz |
| Power Meas. Dynamic Range | -45 to 65 dBmV |
| BER Measurement | (pre) bBER up to 1 x 10 ⁻⁹ (post) aBER up to 1 x 10 ⁻⁹ |
| MER Measurement | up to 40 dB (1 dB typ., 2 dB max.) |

INGRESS MEASUREMENTS

| | |
|-----------|--|
| Frequency | 5 - 65 MHz |
| Level | -55 to +65 dBmV (5 dB μ V to 125 dB μ V) |
| Accuracy | +/- 2dB |
| Bandwidth | 100 KHz @ -3dB |

LEAKAGE MEASUREMENTS

| | |
|------------------|-------------|
| Frequency Range | 115-140 MHz |
| Freq. Resolution | 25 KHz |
| Antenna Type | Selectable |

GENERAL

PHYSICAL

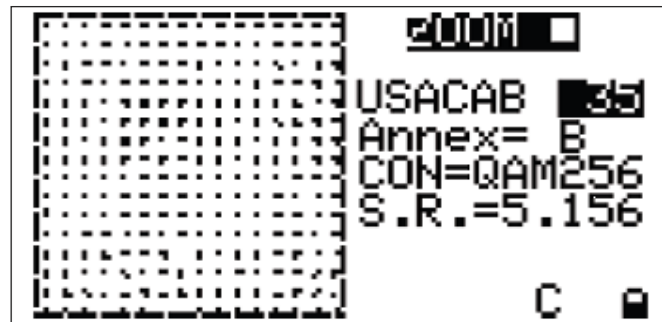
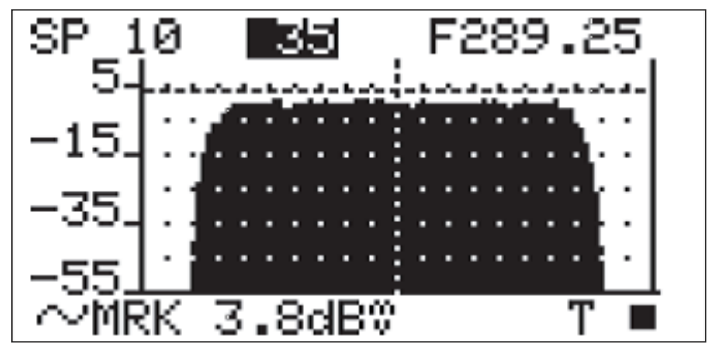
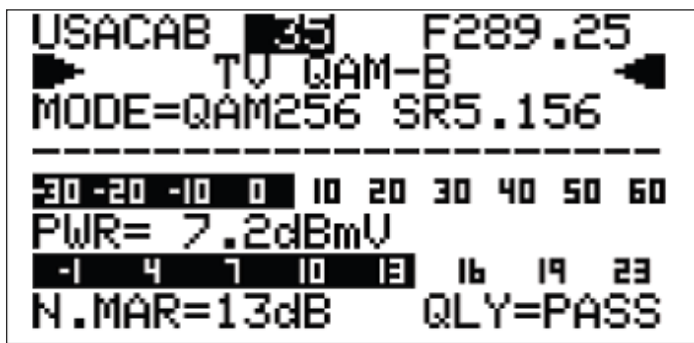
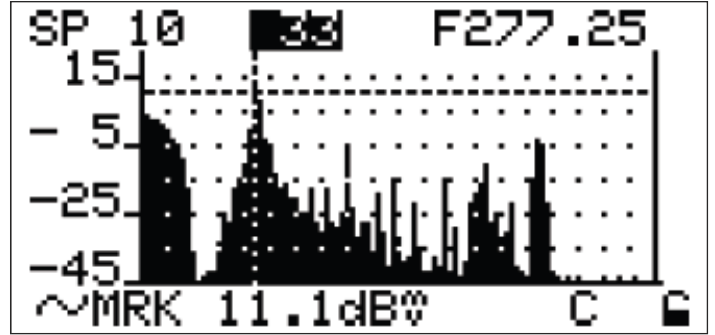
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|------------------------|---|
| Dimensions (W x H x D) | 6.3 x 3.5 x 1.4 in - meter only (160 x 95 x 34 mm) |
| Weight | 3.97 lbs (1 kg) |
| Housing | Metal box with rain proof bag |
| Accessories | Padded transport bag, AC power adapter, USB cable, Adapters: F to F, F to BNC, F to N |

POWER

| | |
|------------|---|
| Battery | Lithium Polymer (rechargeable); 3 hr duration |
| USB Micro | Battery Charge and PC interface for SW upgrade and memory plan management |
| Power Save | TFT backlight timer, brightness adjustable |

ENVIRONMENTAL

| | |
|-----------------|-----------------------------------|
| Operating Temp. | 32 to 122 °F (0 to 50 °C) |
| Storage Temp. | not to exceed over 140 °F (60 °C) |
| Humidity | 0 to 90%, non-condensing |



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