



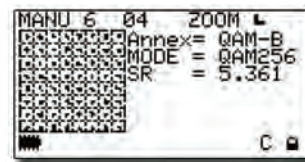
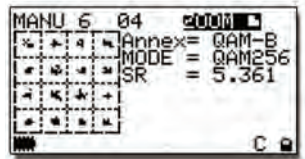
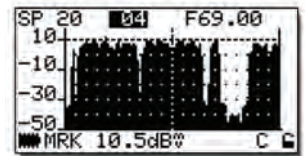
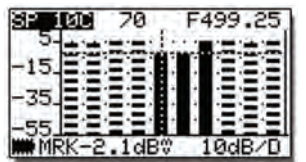
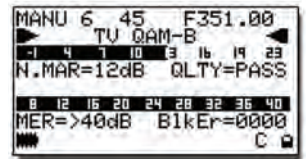
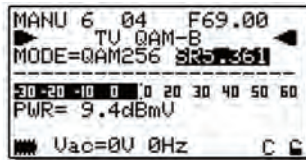
**BLONDER  
TONGUE**  
LABORATORIES, INC.

# BTPRO-1000

## QAM/8VSB/ANALOG SIGNAL ANALYZER

The BTPRO-1000 is a versatile CATV test instrument for measuring both digital and analog CATV and Broadcast TV signals. Robust and easy to use, BTPRO-1000 provides hours of operating time from its high capacity battery. The instrument comes complete with a soft carrying case, AC main and automotive chargers.

An optional Pro:Idiom™ Key Recovery feature is available for Hospitality applications that employ Pro:Idiom™ television sets. The option consists of a built-in frequency agile QAM modulator that connects directly to an affected Pro:Idiom™ TV to provide new encryption key information.



## FEATURES

- QAM/8VSB/NTSC Measurements
- Extended frequency range of 4-1000 MHz
- MER, aBER, bBER, Noise Margin and Level/Power measurements plus Spectrum Analysis
- Automatic quality analysis: FAIL-MARGINAL-PASS
- Auto Seek & Store Function - an essential feature for creating custom memory channel plans. Scans receivable signals, determines signal type (QAM,8VSB or analog) and stores only those channels having signal levels above user defined values
- Ingress and Leakage Modes
- Data Logger Function: Steps through each channel in the "Active" memory plan and stores all related measurements
- Graphics Display
- Alpha-numeric keypad
- **Optional TV Key Recovery for Hospitality Pro:Idiom™ systems (RK Option).**
  - Includes:
    - PI Restore and PI Key Test (PI encrypted color bar test pattern) functions
    - Clear QAM test signals used for TV compatibility testing in the following formats:
      - MPEG-2 video with AC3 Audio
      - \*MPEG-2 video with MPEG-2 Layer 1 Audio
      - \*MPEG-4/H.264 with AC3 Audio

\*Requires F/W version 3.0 or higher

## ORDERING INFORMATION

Model	Stock #	Description
BTPRO-1000	4230	QAM/8VSB/Analog Signal Analyzer
	4230 RK	Signal Analyzer with Pro:Idiom™ Key Recovery Option

# SPECIFICATIONS

## LEVEL MEASUREMENT & SPECTRUM ANALYSIS

<b>Frequency Range:</b>	TV, CATV & Radio 4-1000 Mhz
<b>Frequency Resolution:</b>	25 kHz
<b>RF Input Impedance:</b>	75 $\Omega$ (interchangeable "F" connector)
<b>Dynamic Range:</b>	-59 to +65 dBmV
<b>Measurement Resolution:</b>	0.1 dB
<b>Level Measurement Accuracy:</b>	1 dB typ. (2 dB max)
<b>A/V Ratio:</b>	up to 22 dB, +/-1.5 dB (2 dB max)
<b>C/N Ratio:</b>	up to 45 dB +/-1.5 dB Max; 45-50 dB +/- 2 dB
<b>Resolution Filter Bandwidth:</b>	100 kHz @ -3 dB
<b>Custom Channel Plans:</b>	25 (199 ch. per plan)

## PRO:IDIOM™ KEY RECOVERY OPTION

<b>RF Output</b>	
<b>Connector:</b>	1x "F" Female
<b>Modulation:</b>	QAM 64 or 256 (user selectable)
<b>Standard:</b>	ITU-T J.83 Annex B
<b>Channel Range:</b>	CATV 2 to 158, Broadcast 2 to 69
<b>Output Level:</b>	20 dBmV

## POWER & DIGITAL MEASUREMENTS

<b>Frequency Band:</b>	4-1000 Mhz
<b>Power Measurement:</b>	-45 to 65 dBmV
<b>BER Measurement:</b>	(pre) bBER up to 1 x 10-9 (post) aBER up to 1 x 10-9
<b>MER Measurement:</b>	up to 40 dB (1dB typ., 2dB max)
<b>Constellation Display:</b>	16-32-64-128-256 QAM

## INGRESS & SPECTRUM MEASUREMENTS

<b>Frequency:</b>	5 - 65 MHz
<b>Level:</b>	-55 dBmV to 65 dBmV
<b>Accuracy:</b>	+/- 2 dB
<b>BW:</b>	100 kHz @ -3dB

## LEAKAGE MEASUREMENTS

<b>Frequency Range:</b>	115 -140 MHz
<b>Resolution:</b>	25 kHz
<b>Antenna Type:</b>	selectable

## GENERAL

<b>Power Supply:</b>	Built in NiMh rechargeable battery, external power supply
<b>Battery Duration at 25°:</b>	4 hours
<b>Size:</b>	8.5" x 5.0" x 2.4" (215 x 125 x 60 mm)
<b>PC Interface:</b>	USB
<b>Front Panel:</b>	Alpha numeric keypad
<b>Power Save:</b>	TFT backlight timer, brightness adj