

Blonder Tongue

BTPRO-1000

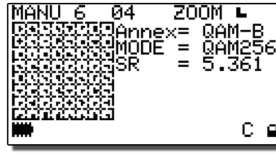
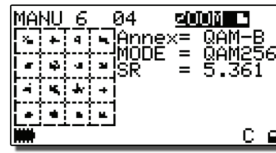
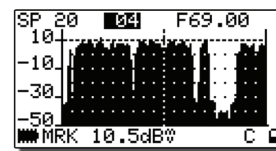
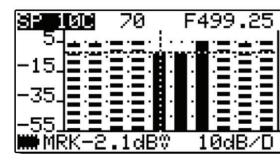
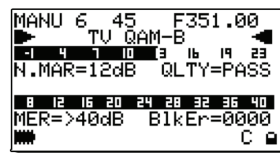
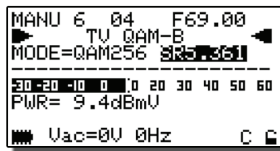
QAM/8VSB/Analog Signal Analyzer

SOLUTIONS FOR ALL YOUR APPLICATIONS

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.

Another powerful feature the RK option provides is the ability to test TV codec capabilities on both Pro:Idiom and standard TV sets. This useful tool allows service providers to easily determine the TV video and audio decoding capability.



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)

- 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
 - MPEG-4/H.264 with EAC3 Audio

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

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

Power & Digital Measurements

Frequency Band:	4-1000 Mhz
Power Measurement:	-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 (1dB typ., 2dB max)
Constellation Display:	16-32-64-128-256 QAM

Ingress & Spectrum Measurements

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

Leakage Measurements

Frequency Range:	115 -140 MHz
Resolution:	25 kHz
Antenna Type:	selectable

Pro:Idiom™ Key Recovery Option

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

General

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

Pro:Idiom™ Key Recovery (RK Option)

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PROIDIOM MENU
PLAN : Cable
CHANNEL : 2
MODE : QAM64
COMMAND: Restore
SET PARAMETERS?
SET CHANNEL?
STATUS : Ready
    
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CATV Channels 2 to 158

Broadcast Channels 2 to 69
QAM 64B or 256B

Pro:Idiom™ Options:

Restore (Re-Key)
Key Test (PI-encrypted color bars)

Codec Test Signals:

MPEG-2 Video with AC3 Audio
MPEG-2 Video with MPEG-2-Layer1 Audio
MPEG-4/H.264 with AC3 Audio
MPEG-4/H.264 with EAC3 Audio



Related Products

Model	Description
BTPRO-7000	HD Tablet/Touch Signal Analyzer
BTPRO-7000S	HD Tablet/Touch Signal Analyzer; HD/SD QPSK/8PSK satellite, 8VSB, QAM, Analog
MTSA-PRO	MPEG Transport Stream Analyzer