



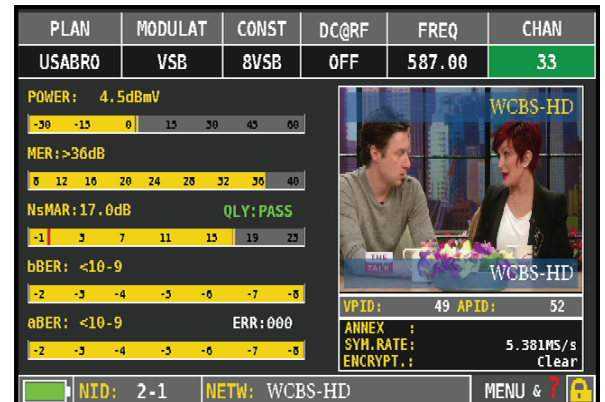
Blonder  
Tongue

**BTPRO-7000**  
HD Tablet/Touch Signal Analyzer  
Digital Test Equipment

## SOLUTIONS FOR ALL YOUR APPLICATIONS

**BTPRO-7000** is a professional HD Tablet/Touch Analyzer with a frequency range of 5 to 1250 MHz. The analyzer features a 7 inch diagonal color screen, is compact in size and lightweight. It is the perfect instrument for analyzing and logging 8VSB, QAM and analog television or radio signals in the lab or out in the field.

The BTPRO-7000 is available with a DOCSIS 3.0 cable modem option (4231 CM8). Displayed information includes frequency, power, modulation type and quality parameters of 8 downstream and 4 upstream channels. The CM option also provides a ping report as well as IP information received from the CMTS. The "CM8FO" Option adds a fiber optic receiver as well as the 8x4 cable modem to the instrument. The fiber option provides direct optical power measurements up to +7 dBm. The optical receiver also provides a broadband RF output that when looped back into the BTPRO's RF input, displays the standard RF measurements as well as the optic modulation index (OMI).



## Features

### Measurements:

- MER, aBER, bBER, EVM, noise margin, level/power, real time spectrum analyzer and constellation display

### CATV Measurements:

- DOCSIS downstream, INGRESS mode, LEAKAGE mode, BAR SCAN and TILT
- TV and CATV tuner, extended band, 5-1250 MHz
- Auto discovery system automatically detects and selects analog and digital 8VSB/QAM TV signals in both Measurement and Spectrum modes
- Spectrum in real time, fast and super-fast with memory peak
- Detects, measures and displays video of MPEG 2/4 and H.264 HD programs
- All measurements, program lists, A/V PIDs, NET ID, virtual channel number, settings and pictures on one screen
- Automatic quality analysis: FAIL-MARG-PASS
- Auto memory, Manual memory and Datalogger functions
- Help function automatically identifies all the signals with digital modulation
- Bar scan TV and CATV function from 10 to 100 channels on one screen
- Audio decoding of AAC and AC3
- Battery test function, to regenerate and measure the batteries and calibrate the battery indicator
- Optional DOCSIS 3.0 8DS x 4US modem
- Fiber Optic option provides optical power, OMI and detected RF measurements.

## Ordering Information

Model	Stock #	Description
BTPRO-7000	4231	HD Tablet/Touch Signal Analyzer
	4231 CM8	HD Tablet/Touch Signal Analyzer with Cable Modem Option
	4231 CM8FO	HD Tablet with Cable Modem and Fiber Optic options

# Display Screens

## Standard Measurement Display

PLAN	MODULAT	CONST	DC@RF	FREQ	CHAN
USABR0	VSB	8VSB	OFF	587.00	33

POWER: 4.5dBmV

MER: >36dB

NsMAR: 17.0dB QLY: PASS

bBER: <10-9

aBER: <10-9 ERR: 000

NID: 2-1 NETW: WCBS HD

PID: 49 APID: 52  
ANNEX :  
SYM. RATE: 5.381MS/s  
ENCRYPT.: Clear

## Full Video Display

CHANGE AUDIO

55  
75  
40

(UNTITLED)

VIDEO: MPEG-2 704x480i 4:3 0Hz @  
AUDIO: AC3 48kHz LANGUAGE:eng

## DOCSIS Display (\*)

SETTINGS DOCSIS MEASURE TONE GENERATOR

MODEM STATUS: CM is Operational - LOCKED D3

DS CH1	DS CH2	DS CH3	DS CH4	DS CH5	DS CH6	DS CH7	DS CH8
FR: 615.00	FR: 603.00	FR: 609.00	FR: 621.00	FR: ---	FR: ---	FR: ---	FR: ---
QAM: 256B	QAM: 256B	QAM: 256B	QAM: 256B	QAM: ---	QAM: ---	QAM: ---	QAM: ---
SR: 5.361	SR: 5.361	SR: 5.361	SR: 5.361	SR: ---	SR: ---	SR: ---	SR: ---
POW: 3.1	POW: 4.1	POW: 3.8	POW: 3.5	POW: ---	POW: ---	POW: ---	POW: ---
MER: 38.9	MER: 38.9	MER: 38.9	MER: 38.3	MER: ---	MER: ---	MER: ---	MER: ---
bBER: <E-9	bBER: <E-9	bBER: <E-9	bBER: <E-9	bBER: ---	bBER: ---	bBER: ---	bBER: ---
aBER: <E-9	aBER: <E-9	aBER: <E-9	aBER: <E-9	aBER: ---	aBER: ---	aBER: ---	aBER: ---
ERR: 0000	ERR: 0000	ERR: 0000	ERR: 0000	ERR: ---	ERR: ---	ERR: ---	ERR: ---

US CH1	US CH2	US CH3	US CH4	PING REPORT	IP INFORMATION
QAM: 64	QAM: ---	QAM: ---	QAM: ---	TX PKG: ---	IP: 10.131.120.190
FR: 22.00	FR: ---	FR: ---	FR: ---	RX PKG: ---	GTWY: 10.131.120.1
SR: 5.120	SR: ---	SR: ---	SR: ---	LOST: ---	TFTP: 167.206.195.102
TX: 58.0	TX: ---	TX: ---	TX: ---	PER: ---	MASK: 255.255.252.0
ATT: 63.0	ATT: ---	ATT: ---	ATT: ---	LATmin: ---	FILE: ^1/B90D319A/
				LATmax: ---	
				AVG: ---	

(\*with CM8 or CM8FO Option)

## Specifications

### General

<b>Dimensions (W x D x H):</b>	9.5" x 1.6" x 5.5" (240mm x 40mm x 140mm)
<b>Weight:</b>	3.5 lbs. (1.6 kg)
<b>Display:</b>	7" TFT touch display, 16:9, high resolution
<b>Battery:</b>	LI-ION-POLIMER 4A battery with 4 hour battery capacity
<b>Supplies:</b>	Padded transport bag, AC and vehicle battery chargers

## Spectrum Display

PLAN	MODE	REF. PWR	MRK. FR	CHAN	SPAN
AUTO10	DIGITAL	10dBmV	177.00	7	FULL

MRK. P: 1.9dBmV

## Constellation: Full

PLAN	MODULAT	CONST	DC@RF	FREQ	CHAN
USACAB	J83-B	QAM256	OFF	129.00	15

ZOOM: FULL

INFO

ANNEX : J83-B  
SYM. RATE: 5.361  
LNB Curr: 0mA

TSID: 898

## Fiber Power Measurement (\*\*)

WAVELENGTH 1310nm

OPTIC POWER GRAPH

OPTIC POWER

TOO LOW

OPTIC POWER LOSS

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OPTIC REF.

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STORE

OPTIC FUNCTION

EXIT

(\*with CM8FO Option)

## Related Products

Model	Description
BTPRO-7000S	HD Tablet/Touch Signal Analyzer; HD/SD QPSK/8PSK satellite, 8VSB, QAM, Analog
BTPRO-1000	QAM/8VSB/Analog Signal Analyzer
MTSA-PRO	MPEG Transport Stream Analyzer