ByteBrothers™

Network Test and Certification

PROFESSIONAL GRADE TOOLS THAT ARE EASY TO USE

REVOLUTIONARY TECHNOLOGY (YOU CAN AFFORD)

BYTE BROTHERS 2010 PRODUCT CATALOG

QUESTION: HOW DO TOOLS GROW YOUR LOW VOLTAGE BUSINESS?

ANSWER: QUALITY, AWARD WINNING BYTE BROTHERS TESTERS GROW YOUR BUSINESS IN TWO WAYS.

1. **The right tool saves time, money and increases your profits. Here are some examples of what the right tool can do for you...**

   THE RIGHT TOOL

   Cable problems? The Real World Certifier manages your cables from "distance to a short" to "excessive propagation delay."

   Switch problems? The Power Panel tells you if a switch is ON; the speed; and if the switch has PoE available to power devices.

   CCTV down? The Camera Wizard, among its many tests, displays both a camera image and the video signal amplitude on the LCD.

2. **The right data to your customer is your most valuable service... for example...**

   THE RIGHT DATA

   Proof of test. The Real World Certifier provides you and your customer an Excel spreadsheet of the data you collected during cable installation. The report documents testing and is helpful if there are in future problems.

   Ethernet devices drawing too much power. The Power Panel (inline model) measures the power draw (in watts) of the VoIP phone, IP camera or access point that you are installing or maintaining. Too much power draw is the number one reason why networks using Power over Ethernet (PoE) fail.

REVOLUTIONARILY EASY TO USE AT A FAIR VALUE

HOW TO CHOOSE YOUR TESTER

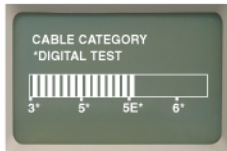|	REAL WORLD CERTIFIER 2™	POWER PANEL™	TVR10/100/1000™ LAN TESTER	Pro Tone™	Camera Wizard™
CAT5/6 CABLE INSTALL AND MAINT	●	●		●	
VoIP PHONE, IP SECURITY CAMERA, ACCESS POINT INSTALL AND MAINT	●	●		●	
GENERAL ETHERNET DEVICE INSTALL AND MAINT		●	●	●	
INFORMATION TECHNOLOGY (IT) MANAGER	●	●	●	●	
NETWORK MANAGER	●	●	●	●	
CCTV SECURITY CAMERA INSTALL AND MAINT				●	●

ByteBrothers™
Network Test and Certification

REAL WORLD™ CERTIFIER 2

ByteBrothers™
Network Test and Certification
Model: RWC1000K
www.bytebrothers.com

PASSED

Reading: 'Cable # 1'   Skew   Patch/Solid
Length   Delay   21 ns   Patch   TOLERANCE
297 Ft.   452 ns   TOLERANCE
CERT LEVEL 1: 1 GIG, 19% TOLERANCE
CERT LEVEL 2: 1 GIG, 19% TOLERANCE
DELAY OK SKEW OK
NEXT/FEXT PASSED (DIGITAL TEST)
SPLIT OK MAP OK

WIREMAP:

12>	300'	=== <12
36>	304'	=== <36
45>	311'	=== <45
78>	297'	=== <78

SKEW

	12>	4 NS SKEW
	36>	11 NS SKEW
	45>	21 NS SKEW
	78>	0 NS SKEW

PROPAGATION DELAY (PER PAIR)

12>	457 NS DELAY
36>	463 NS DELAY
45>	474 NS DELAY
78>	452 NS DELAY

Cable Category (Digital Test)
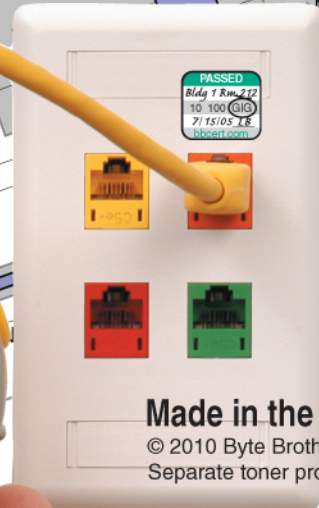CAT3   CAT5   CAT5E   CAT6

RW Certification #1 (Cable)
10MB/S   100MB/S   1000MB/S

Data Signal Levels (Port)
PAIR 4,5   PAIR 7,8

Data Min ... 2 (Port)
1000MB/S

Display descriptions

CABLE CATEGORY *DIGITAL TEST
3*   5*   5E*   6*
Cable Category
CAT 3,5,5E,6

RW CERTIFIED 1 GIG
10   100   1000
Speed testing
10MB,100MB,
1000MB
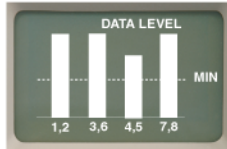
DATA LEVEL
MIN
1,2   3,6   4,5   7,8
Data levels of
real live data
(from any device)
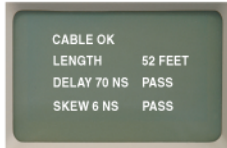
CABLE OK
LENGTH   52 FEET
DELAY 70 NS   PASS
SKEW 6 NS   PASS
Length (real TDR)
Propagation delay
and skew

12 >	200'	OK
36 >	202'	OK
45 >	100'	SPLIT
78 >	100'	SPLIT
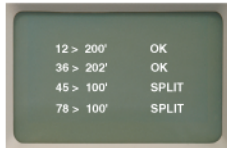
Splits, opens,
shorts,
wire map.

12 >	10M 100M	FULL	
	GIGABIT	HALF	
36 >	NO LINKS		
45 >	NO LINKS		
78 >	NO LINKS		
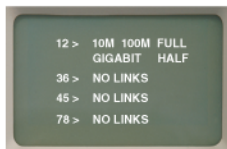
Network device
testing
including inline

TESTS AND DISPLAYS
CAT 3,5,5E,6
CABLE CATEGORY

PASSED
Bldg 1 Rm 212
10 100 GIG
7/15/05 1.8
bbcert.com

CABLE CATEGORY *DIGITAL TEST
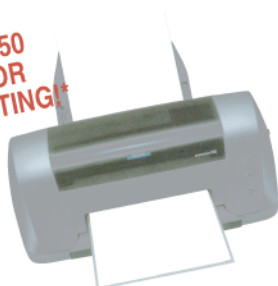3*   5*   5E*   6*

PWR   SEL

Made in the USA
© 2010 Byte Brothers, Inc.
Separate toner probe included

WHY BUY: In addition to length, open, shorts and split pairs, the RWC looks at the speed parameters of a cable. Add this to the network tests and the "proof-of-test" reports and you have valuable services to offer your customer.

STORES 250 TESTS FOR LATER PRINTING!*

WELCOME DVD

See it in action. Call for our free 1 hour DVD.
800-999-2983 (USA) or
cs@bytebrothers.com

RWC1000K - PRINTING
RWC1000NP - NON PRINTING

* Requires a PC with Microsoft's® Excel®
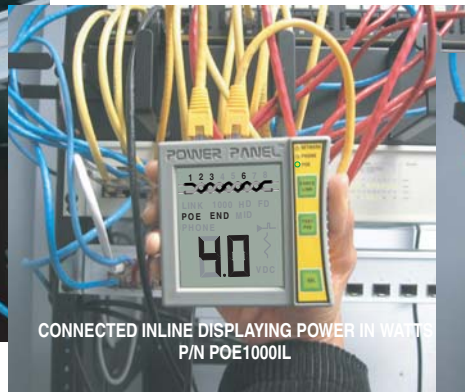
POWER PANEL™

CAT5/6 DVM (JACK AND POE TESTER)
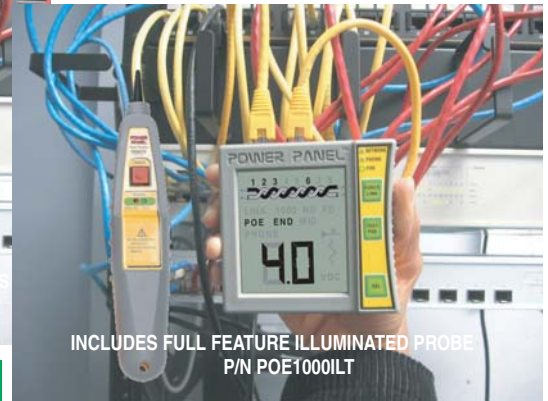
3 POWER PANEL DVM MODELS TO CHOOSE FROM!

STANDARD VERSION DISPLAYING POE VOLTAGE
P/N POE1000

MODEL POE1000
STANDARD POWER PANEL

CONNECTED INLINE DISPLAYING POWER IN WATTS
P/N POE1000IL

MODEL POE1000IL
INLINE POWER PANEL

INCLUDES FULL FEATURE ILLUMINATED PROBE
P/N POE1000ILT

MODEL POE1000ILT
POWER PANEL TONE STAR

STANDARD UNIT FEATURES
P/N POE1000
Scans pins and displays:
PoE power: Volts, watts, cable
  pair location, end / midspan.
Advertised data switch speed
  (10,100,1000 MB/s), duplex.
  Cable pair location.
Phones (digital, analog)
INTERACTIVE BUTTONS:
VoIP phone and IP camera
  load simulator.
Link pulse transmit button.
OTHER FEATURES:
Tone generation
Port beacon, Auto shutoff
9V battery (included).

INLINE FEATURES
P/N POE1000IL
All of the features of the
Standard model plus:
POWER PASS THRU
  Two jacks allow PoE power to
  be passed to the PoE device
  so it can be tested.
POWER MEASUREMENT
  Placed INLINE between two
  devices, the power draw of the
  device can be measured in
  watts. Too much power draw is
  the number one reason for
  IP/PoE network failure.

TONE STAR FEATURES
P/N POE1000ILT
All of the features of the
INLINE model plus:
AN ILLUMINATED PROBE
The Tone Star model includes
a full featured, filtered probe
for tracing tones (wire location).
The probe features an ultra-
bright LED lighted tip, filtering to
block fluorescent hum, volume
control, 2 status LEDs,
adapters for alarm wire, RJ11,
RJ45 and coax connectors.

"The power panel lets you know
what's there before you plug in."

"If you install VoIP or camera systems
this will become your main tool."

WHY BUY: Want to be your own man and know what's
on a jack during an install? Network, telephone, PoE.
Tired of chasing other people around and asking? And
the "inline" model even measures PoE power (watts).

THE OLD WAY OF TESTING FOR VOLTAGE AND POWER
TEDIOUS ● TASTELESS

THE NEW WAY OF TESTING FOR VOLTAGE AND POWER
SMART ● ACCURATE

Made in the USA
Patent pending
Copyright 2010
Byte Brothers, Inc.

CABLE AND POWER KITS
Special pricing when you combine the
Power Panel with the Real World Certifier.

| CPK1000 | RWC1000K and POE1000 |
| CPK1000IL | RWC1000K and POE1000IL |

Camera ☆ Wizard™

COLOR & BW CCTV TESTER

PUT THE WIZARD TO WORK FOR YOU!

On-screen Vpp display

MAX Vpp: 2.20V
AVERAGE Vpp: 1.95V
SYNC SIGNAL: 0.29V

**Signal amplitude appears
on the same screen as the video display**

**The professional tool for testing
all of your CCTV components:**

Camera: *Display the camera image and Vpp
signal levels on a clear, colorful LCD.*
Motion: *Keypad control of Pan/Tilt/Zoom (PTZ)*
Monitors: *Drive with color bars and solid colors*
Keyboards: *RS485 serial data decoding*
Cable Testing: *UTP (CAT5/6)*
Multimeter: *AC/DC and resistance (probes included)*

WHY BUY: CCTV installers want to know two things: Do I have a picture and is the signal at least 1Vpp. For the "Wizard", that's just the start. Includes tests for PTZ, monitors, keyboard, joy stick and CAT5/6 cables.

FEATURES:
- **Camera video testing (visual display)**
- **Camera video testing (Signal amplitude)**
- **Camera motion testing (drive the PTZ)**
- **Monitor testing (color bar generation)**
- **Keyboard/joy stick testing**
- **UTP Cat 5/6 cable testing**

" The Vpp display says it all."

MODEL VTX454

Feature	Camera Wizard CCTV Tester	
Video Testing	Signal Mode LCD Display Signal strength Video Input Video Output LCD Brightness	NTSC compatible 2.5 inch LCD screen, 960x240 resolution Max Vpp, Ave Vpp and Synch V 1 channel BNC 1 channel BNC Adjustable from keypad
PTZ Test and control	Communication Protocol Baud Rate	RS232, RS422 simplex and RS485 Includes 20 manufacturer's protocols 2400, 4800, 9600, 19200
Built-in Multimeter	DC Voltage Test AC Voltage Test Resistance Test	Max:1000V, Precision:0.1mV Max:750V, Precision:0.1mV Max:40Mohm , Precision: 0.1ohm
Power to Camera	Voltage Working Time Max Current	DC12V 4-5 hours to normal camera 200mA
Other Functions	UTP Cable Test Signal Generator RS485 Data Test OSD Menu Keypad	Test UTP (Cat 5,6) cables Test security monitors Display RS485 data from device English OSD menu Easy to operate. Number buttons.
Power and Battery	Power Adapter Battery Rechargeable Low Consumption Operating Time	DC5V 3000mAh rechargeable battery inside 6 hours recharging time Sleep mode. Power status display. 10 hours
Other	Work Temperature Work Humidity Dimension Weight	-22 F (-30C) --- +158 F (+70C) 30%-90% 6.5"(16.6cm) x 3.6"(9.1cm) x 1.9"(4.8cm) .6# --- 280g

TVR10/100/1000™
LAN TESTER

INSTANT ANSWERS ABOUT HUBS/SWITCHES/PCs AND CABLES

MODEL TVR10/100/1000K

NO EXPERIENCE REQUIRED!
A proven tester that we have been making for 20 years.

INSTANTLY DISPLAY*
Device type (hub/switch or PC)
Speed (10,100,1000 MB/s)
Duplex (half, full)
***No training required!**

The quick LAN tester that should be in every toolbox! Unique for its ease-of-use, and *INLINE* capability, the TVR10/100/1000 performs 4 critical tests.

1 ADVERTISED SPEED

The lights quickly tell you if the device is a hub/switch or a PC. Plus, it reads the link pulse to determine if the device is capable of 10, 100 and/or 1000MB/s communication (this is termed the *advertised* speed). And it also displays whether it's half or full duplex.

2 NEGOTIATED SPEED

Go *INLINE* between two LAN devices and the TVR10/100/1000 will check the speed and duplex of the link (this is termed *negotiated* speed). The ability to test negotiated speed in this price range is unheard of!
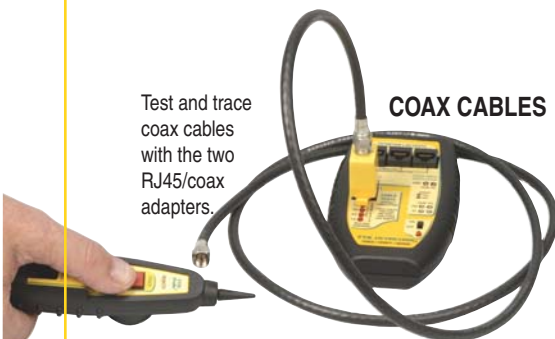
3 TEST CABLES

The TVR10/100/1000 is also a pairs tester... telling you which pairs are wired and whether they are straight through or crossover.
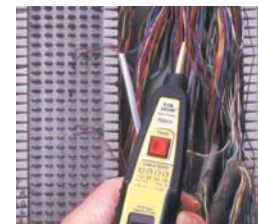
4 TRACE CABLES

Use the TVR10/100/1000 as a tone generator. The Main unit generates the tone for use by the Remote probe.

Test and trace coax cables with the two RJ45/coax adapters.

COAX CABLES

WHY BUY: No complicated menus. Just what you need for quick answers while troubleshooting network problems. Plug in the TVR and watch the LEDs.

Pro Tone™

ULTRABRIGHT LED TIP
LOUD, FILTERED LOCATOR TONE
WARNING LED WHEN AC PRESENT

WIRE LOCATOR • ALL WIRE TYPES

SEE ME....
HEAR ME....

The famous probe sold with 1000s of our Real World Certifiers™ is included in this ProTone Kit™

LOUD TONE WITH FILTERING
TECHNOLOGY LOCATES
WIRES QUICKLY *

ULTRABRIGHT LED ON TIP
FOR GREATER VISIBILITY IN DARK CABLES!

VOLUME CONTROL AND TONE LED
FOR CONTROLLED OPERATION

INSULATED TIP AND "60HZ PRESENT"
WARNING LED FOR SAFETY

RJ11, RJ45 AND INSULATED
ALLIGATOR CLIPS FOR CONNECTION

POUCH AND 9V BATTERIES INCLUDED

* Filtered: Special filtering blocks
humm from fluorescent lighting

Pro Tone™
Patent Pending
REMOTE

TRACE

SIGNAL

60hz AC   Tone

⚠️ AC 60hz present when
red LED is lit.
Do not look directly into
flashlight.

WHY BUY: A tone generator/probe is a basic requirement for all tool kits. Ours has all of the features you want ... all the way up to a lighted tip ... and a great price !

Pro Tone™
WIRE LOCATOR • ALL WIRE TYPES
MODEL CTX590

SENSITIVE   •   LIGHTED   •   AC SAFETY LED

MODEL CTX590

"In a world of cabling in dark closets, doesn't it make sense to have a probe with a voltage detector and light."

AVAILABLE THROUGH YOUR LOCAL DISTRIBUTOR:

25th Anniversary — **bytebrothers.com**
800-999-2983 (USA) or cs@bytebrothers.com

ByteBrothers™
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