AEA Technology, Inc.

20/20 TDR™

HIGH BANDWIDTH COPPER MEDIA TESTING

The 20/20 TDR is a "Step" Time Domain Reflectometer designed specifically for measuring **High Bandwidth Copper Media**. 21st Century RF, broadband, telecommunications and network cabling systems demand a higher quality installation practice and fault-free transmission media. AEA Technology designed the 20/20 TDR to meet today's needs for coaxial and twisted pair cable installation verification and for fast, efficient troubleshooting. Combined with AEA's TDR PC Vision™ software, included with every TDR, any technician can now save plots, upload to a PC and document network or system installations. The 20/20 TDR is compact, rugged and light-weight to meet mobile technicians' demand for high-quality, accurate instrumentation that fits on their belt. Additionally, AEA Technology makes multiple models to meet the needs for connecting to coax with BNC, N, or F connectors, or to twisted pair cables with RJ45 or Telco clips. The "Network" models combine both RJ45 style Network and Coax connectors to service **Voice, Data and Video** media in one instrument.
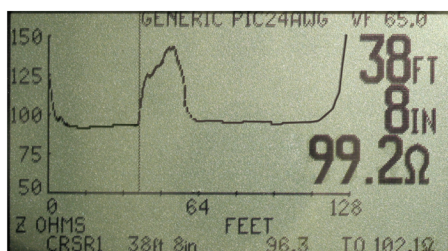
Features

Accuracy < 0.1% +1 inch (2 cm) and < 2% Impedance
Range from 0 to 10,000 ft (3,300m) No Dead Zone - Any Range
Graphical Plots
    Impedance (Z), all models
    SWR and Return Amplitude - select models only
Clear indications of opens, shorts, water, bridge taps, etc.
Auto Fault Finder & Intermittent Locator functions
Operates on AC, NiMH or Alkaline AA batteries
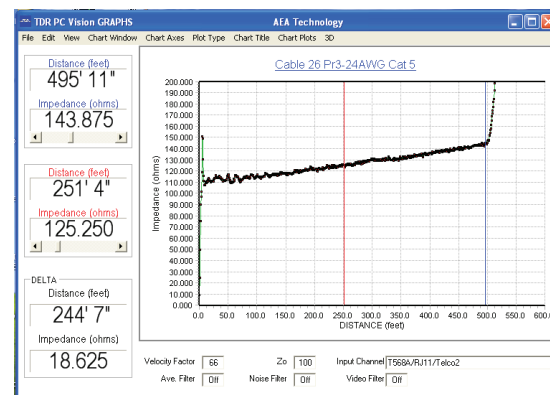Rechargeable models have AC wall and DC vehicle adapters

Benefits

See faults other TDRs miss completely
Test both coax and twisted pair cables with one TDR
Improve fault locating time to minimize expense
Fast installation verification and documentation
Measure cables to meet a higher standard
Faster test initiation times by recalling stored system setups
Establish a cable records data base

The 20/20 TDR's backlit LCD presentation features

- Dual cursors with differential readings
- Adjustable Impedance and Distance scales
- Hide/unhide cursors and cable type info – one button

The Function keys have on-screen menus and dozens of options to customize setups for each user's requirements. The memory can store up to 99 screen saves or 15 full trace detailed saves or lesser combinations of both. There is a "Recall" feature to see saved plots on the TDR. Additionally, TDR PC Vision software and a serial cable for PC uploads are included at no additional cost.

The TDR PC Vision software makes it easy to upload, examine, rescale, rename, save, export or print saved plots in the 20/20 TDR's memory. Once saved on the PC, an archive data base of user's or customer's cable records can be designed to meet anyone's needs. Later retesting and comparing the traces will rapidly reveal if a cable is in original condition, damaged or has been altered. TDR PC Vision also has a "Remote Control" feature for changing instrument setups.

20/20 TDR™

Ordering Information

Model	Part Number	Options	Equipped & Accessories
20/20N TDR	6020-R5000	Broadcast	"N" Type Connector
20/20T TDR	6020-R5012	Telco	"RJ45" Connector, includes RJ45-to-Telco clips (2 pair) Test Leads
20/20B TDR	6020-R5020	Broadcast	"BNC" Connector, includes: BNC-to-Alligator Clips Test Lead
20/20F TDR	6020-R5031	CATV	"F" Connector, includes: F-to-Alligator Clips Test Lead
20/20F Network TDR	6020-R5041	CATV	"RJ45"and "F" Type Connectors, includes: RJ45-to-Telco clips (2 pair) Test Leads and F Connector-to-Alligator Clips Test Lead
	6020-R5042	Telco	Same as P/N 6020-5041 above
	6020-R5043	VDV/RF	Same as P/N 6020-5041 above
20/20B Network TDR	6020-R5053	VDV/RF	"RJ45"and "BNC" Connectors, includes: RJ45-to-Telco clips (2 pair) Test Leads and BNC Connector-to-Alligator Clips Test Lead

All models are available in non-rechargeable versions. Omit the "R" in the part number to order as non-rechargeable

All 20/20 TDR models include: AC Wall Power Adapter, Belt Carrying Case with strand hook and shoulder strap, PC serial cable, Quick Start Guide, Operating Manual and a CD with TDR PC Vision Software, Operating Manual, Quick Start Guide, Theory & Application Notes and Training Presentations. Rechargeable 20/20 TDR models ALSO include: 8 AA NiMH batteries (installed), internal smart charger with menus and charging status data and a DC Vehicle adapter.

Specifications

Range:	10,000 ft (3,300m) @ .99c or 7,200 ft (2,200m) @ .66c	Display:	Qtr VGA Backlit LCD 279 x 156 pixels
Accuracy:	<0.1% ±1 inch (2cm)	Communications:	Serial Port 57,600 Baud
Impedance:	<2% (Z=45-125 Ohms)	Internal Power:	8 AA Alkaline, NiMH or NiCd batteries
Resolution:	1 inch (2cm)	External Power:	15VDC @ 450mA
Dist. Ranges:	20 to 10,240 feet (6 to 3,200 meters)	Size:	8.5" x 4.3" x 2.25" (216 x 109 x 57mm)
Dead Zone:	Zero on any range	Weight:	1 lb 9 oz (699 grams) with soft case only
Scale Ranges (Z):	20, 50, 100, 200, 500 & 999 Ohms		2 lb 1 oz (923 grams) with case and batteries
Cursors:	Two independent with Differential Reading	Environmental:	splash and dust resistant
Memory:	99 Screen Plots or 15 Detailed Plots or Combinations	Drop Resistance:	MilStd 810F Transit Drop, 48 inches (122cm)

Optional Accessories

Item	Part Number	Description
Kit Carrying Case, Soft	6015-1002	Large reinforced soft sided carrying case with product wells in closed foam block & shoulder strap (see photo)
Kit Carrying Case, Hard	6015-1003	Large hard-shell carrying case with product wells in closed cell foam block. Case has gasket seal with handle, padlock holes and pressure vent. (see photo)
F-Connector Quick Connect Test Lead	0070-1230	3 foot (1 meter) test lead with 3GHz miniature coax cable, one screw-on F-Connector and one slip-on F-Connector

6015-1002

6015-1003

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