



## Ultimate in Hand-held Step TDR Technology, now in an Avionics Kit

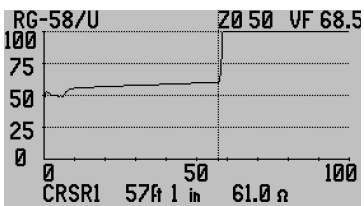
The E20/20 TDR Avionics Kit is designed specifically for testing and fault locating on aircraft wiring. The Step TDR is ideal for troubleshooting **all types of coax, twisted pairs, single-wires in a harness, and aircraft power cables**. Use "Step TDR" technology's amazingly accurate display and locating ability to save time and money. The kit includes connection adapters for mating with aircraft wiring harness style connectors making testing fast and convenient. Additionally, the TDR, manuals, PC software and accessories are all in a rugged anti-FOD carrying case designed for flight line and aircraft use. ETDR PC Vision™ software can upload, save, and print test results, and customize the TDR's cable list for specific aircraft as desired.

### Features

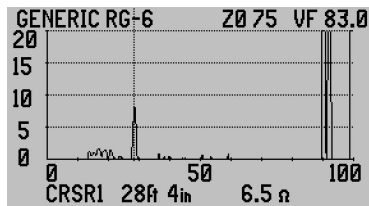
- Ranges: from 0-10ft (0-2m) to 20,000ft (5Km)
- No dead zones on any range setting
- Range Zoom on Cursor
- Impedance zoom using Z Scale
- Cursor reading down to ±½ inch (±8mm)
- Cable List with up to 64 cable types
- BNC and RJ45 connectors standard
- Setup Wizard - step-by-step start up assistance
- Context sensitive help
- Cell phone style alpha-numeric entry pad
- Keypad LED indicators for active function
- Cable toning - coax or wire pairs
- Stores 32 traces with name, date & time
- Rechargeable NiMH AA cells (included)
- ETDR PC Vision software (included)
- Kit Case is ATA rated and MIL-STD tested

### Benefits

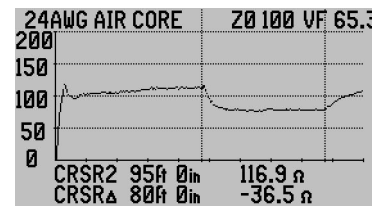
- Test coax, twisted pairs, or single wires using same TDR. Wire-to-wire or wire to airframe
- Accurate and clear trace indication of faults
- Secure, but convenient accessory access
- More advanced features to aid troubleshooting
- Save, upload, print or email TDR's traces
- Find faults other TDRs miss
- Clear wiring trouble more quickly with less testing
- Customize, upload, and download Cable Lists, PC-to-TDR
- Saved traces are also saved setups for recall
- Noise detection and noise filtering
- Locate coax or pairs quickly using Tone Function
- Setup Wizard makes starting use easy and helps train new users
- "Belt Friendly" TDR size and only 2.2 lbs (1Kg)



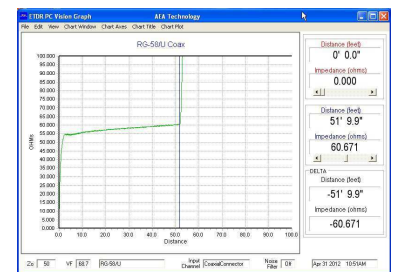
Coax-high impedance (Z) & open far end



Coax crimp using MicroFault locating



Wet twisted pair cable



ETDR PC Vision Graphical Display

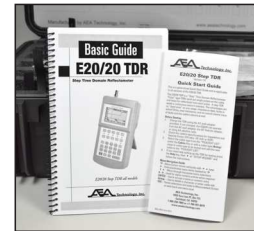


Made in the USA

See reverse for ordering information, accessory details, TDR and Avionic's Case specifications

## Ordering Information

Model	Part Number
E20/20 TDR Avionics Kit	6021-5154



### Kit Includes:

6021-5154 E20/20B Network TDR with BNC and RJ-45 connectors and aviation cable list.

Hard carrying case with anti-FOD layout, belt case, AC power adapter, 8 AA NiMH cells (installed), USB Cable. Test leads:

- BNC(m)-to-BNC(f) 6ft (2m) 50 Ohm cable
- BNC-to-alligator clips
- BNC-to-pins, sizes 12, 16, 20, and 22
- BNC-to-sockets, sizes 12, 16, 20, and 22
- RJ-45-to-RJ-45 6ft (2m) Cat 5 (ISO class D) cable

Basic Guide, Quick Start Guide, CD-ROM with ETDR PC Vision software, Operator Manual, Training Presentation, and Application Notes

## Key Specifications (visit [aeatechnology.com](http://aeatechnology.com) for more)

### E20/20 TDR

Max Ranges:	20Kft (5Km) @ .99c or 14Kft (3300m) @ .66c
Min Range:	0-10ft (0-2m)
Range Scales:	11 selectable ranges
Range Acc:	<0.2% ±1 inch (2.5cm) + VF uncertainty
Z Accuracy:	<2% (Cable Z=45 to 125 Ohms)
Resolution:	0.5 inch on 10ft range scale or 10ft Zoom (8mm on 2m range scale or 2m Zoom)
Dead Zone:	Zero on any range setting
Z Ranges:	20, 50, 100, 200, 500, & 1,000 Ohms
Cursors:	2 independent and differential reading
Memory:	32 traces with 1920 data points (feet), 2000 data points (meters), name, date, and time.
Adv Features:	Test Lead Null Micro Fault Locating Setup Wizard - step-by-step setup instructions Context Sensitive Help
Cable List:	64 Cable types with their Z and VF. PC upload or download custom cable lists
Tones:	900/1100Hz warble, 977.5, 850, 577Hz steady or pulsed & Pocket Toner enable
Display:	Quarter VGA transfective & backlit
Comms:	USB-2/serial
Internal Power:	8 AA NiMH cells (installed) ~7.3 hours continuous operation on single charge (reduced by backlight)
Alternate Cells:	8 AA alkaline, ~ 7 hours continuous operation (reduced by backlight)

### E20/20 TDR (continued)

External Power:	90-240VAC 50/60Hz adapter to 15VDC
Size:	8.5 x 4.3 x 2.25 inches (216 x 109 x 57mm)
Weight:	2.2 lbs (1Kg) with batteries and belt case
Environmental:	Splash and dust resistant
Ruggedness:	MILSTD 810G Transient Drop tested, 48 inches (122cm) to hard surface, 26 drops

### Hard Carrying Case

FOD protection:	Custom foam for item securing and lid label for item ID and locating
Transport:	ATA 300 Category 1 rated
Size:	18.1 x 13.7 x 6.9 inches (48 x 35 x 18 cm)
Weight full:	11.5lbs (5.2Kg) with TDR and all accessories
Environment:	MIL-STD-810F impact damage, UV, solvents, and fungus resistance MIL-STD-C4150J waterproof & dust tight MIL-STD-648C ambient pressure equalization

