

## Ultimate in Hand-held Step TDR Technology is now available in two Avionics Models

### Avionics TDR Kit



The Avionics TDR is designed specifically for testing and fault location on aircraft wiring. The Step TDR Technology is ideal for troubleshooting all types of coax, twisted pairs, single-wires in a harness, and aircraft power cables. Whether testing a new harness for complete connections or aging aircraft wiring this TDR will provide the most accurate trace of the cable's impedance over length and detect even the smallest faults. Kit includes: ETDR PC Vision™ software for trace documentation and new avionics training presentations. See reverse for complete details on each model.

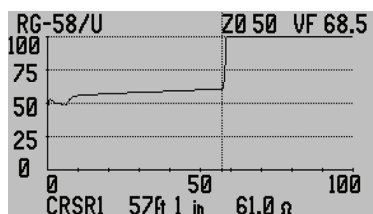
### Boeing approved model

#### Features

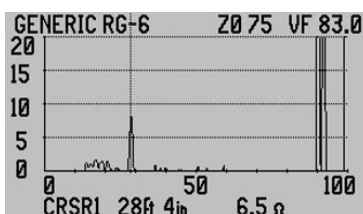
- Ranges: from 0-10ft (0-2m) to 20,000 ft (5Km)
- No dead zone on any range setting
- Range Zoom on Cursor
- Impedance zoom using Z Scale
- Cursor reading down to  $\pm \frac{1}{2}$  inch ( $\pm 8mm$ )
- Cable List with up to 64 avionics cable types
- BNC and RJ45 connectors standard
- Setup Wizard – 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, pairs, or single-wires
- 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

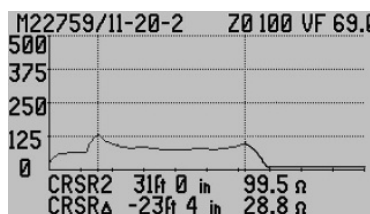
- Test coax, twisted pairs, or single-wires in a harness
- Wire-to-wire or wire-to-airframe
- Accurate and clear trace indication of faults
- Kit includes pin an socket test leads for harness connectors sizes 12, 16, 20 and 22
- Kit adds secure, but convenient, accessory access with anti-FOD layout in ATA 300 Cat 1 rated case
- Save, upload, print or email TDR's traces
- Find faults other TDRs miss - Micro Fault locating
- Clear wiring trouble more quickly with less testing
- Customize, upload, and download Cable Lists
- Saved traces are also saved setups for recall
- Avionics TDR is RF shielded and has both cable Noise Detection and Noise Filtering
- Locate coax, pairs, single-wires via Tone Function
- Setup Wizard helps new users and aids training.



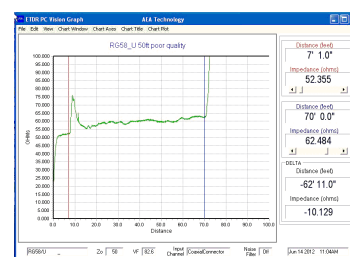
Coax-high impedance (Z)  
& open far end



Coax crimp using  
MicroFault locating



Single-wire in harness  
shorted to airframe



ETDR PC Vision  
graphical display



Made in USA with  
US and global parts

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



Testing Made Simple!

**AEA Technology, Inc.**

# Avionics TDR Kit

## Ordering Information

### Avionics TDR Kit

#### Kit Includes:

Avionics TDR, EMI shielded with BNC and RJ-45 connectors and aviation cable list. Hard carrying case with anti-FOD/easy accessory access layout, belt case, AC power adapter, 8AA 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, Operation Manual, Training Presentation, Application Notes, and Calibration Certificate



**Avionics TDR**

Boeing approved model  
Part Number 6021-5154



Pin, Socket, and Alligator Clip Test Leads



Coax Test Lead



RJ45 Test Lead



USB Cable

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

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 readings
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)
External Power:	90-240VAC 50/60Hz adapter to 15VDC

#### Avionics TDR (continued)

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:	MIL-STD 810G Transient Drop tested, 48 inches (122cm) to hard surface, 26 drops

#### Avionics TDR Kit's 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
CERTIFICATIONS :	CE EMC: EN/IEC 61326-1:2013/2020 Safety: EN/IEC 61010-1:2010 +A1:2016 + C1:2019

*Data subject to change without notice*



Made in USA with  
US and global parts

