

# **Avionics TDR & Avionics TDR Kit**

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

## **Avionics TDR Kit**



The Avionics TDR and TDR Avionics Kit are designed specifically for testing and fault location 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.** 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. Both models include: ETDR PC Vision™ software for trace documentation and new avionics training presentations. See reverse for complete details on each model.

## **Avionics TDR**



# **Boeing approved model**

## **Features**

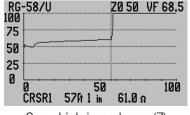
Ranges: from 0-10ft (0-2m) to 20,000 ft (5Km) No dead zone on any range setting Range Zoom on Cursor Impedance zoom using Z Scale Cursor reading down to  $\pm \frac{1}{2}$  inch ( $\pm 8$ mm) Cable List with up to 64 avionics cable types BNC and RJ45 connectors standard Setup Wizard - step-by-step start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

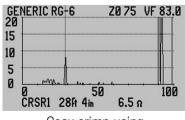
Test coax, twisted pairs, or single-wires in a harness
Wire-to-wire or wire-to-airframe
Accurate and clear trace indication of faults
Kit includes pin an socket test leads for harness
connectors sizes12, 16, 20 and 22
Kit adds secure, but convenient, accessory access with
anti-FOD layout in ATA 300 Cat 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

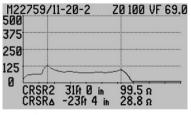
Locate coax, pairs, single-wires via Tone Function Setup Wizard helps new users and aids training.



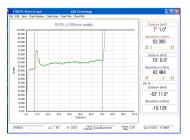
Coax-high impedance (Z) & open far end



Coax crimp using MicroFault locating



Single-wire in harness shorted to airframe



ETDR PC Vision graphical display



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

# **Avionics TDR & Avionics TDR Kit**

# **Ordering Information**

# **Avionics TDR**



# **Avionics TDR Kit**



Part Number 6021-5054

#### Kit Includes:

Avionics TDR, EMI shielded with BNC and RJ-45 connectors and aviation cable list. Soft carrying case, belt case, AC power adapter, BNC-to-alligator clips test lead, 8AA NiMH cells (installed), USB Cable. Basic Guide, Quick Start Guide, CD-ROM with ETDR PC Vision software, Operation Manual, Training Presentation, Application Notes, and Calibration Certificate with data.

Part Number 6021-5154

Boeina

approved

model

#### 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

Examples:







Coax Test Lead



**RJ45 Test Lead** 



USB Cable

# Key Specifications (visit aeatechnology.com for more)

**Avionics TDR** 

Max Ranges: 20Kft (5Km) @ .99c or 14Kft (3300m) @ .66c

Min Range: 0-10ft (0-2m)
Range Scales: 11 selectable ranges

Range Acc:  $<0.2\% \pm 1$  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 transflective & 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,  $\sim$  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







