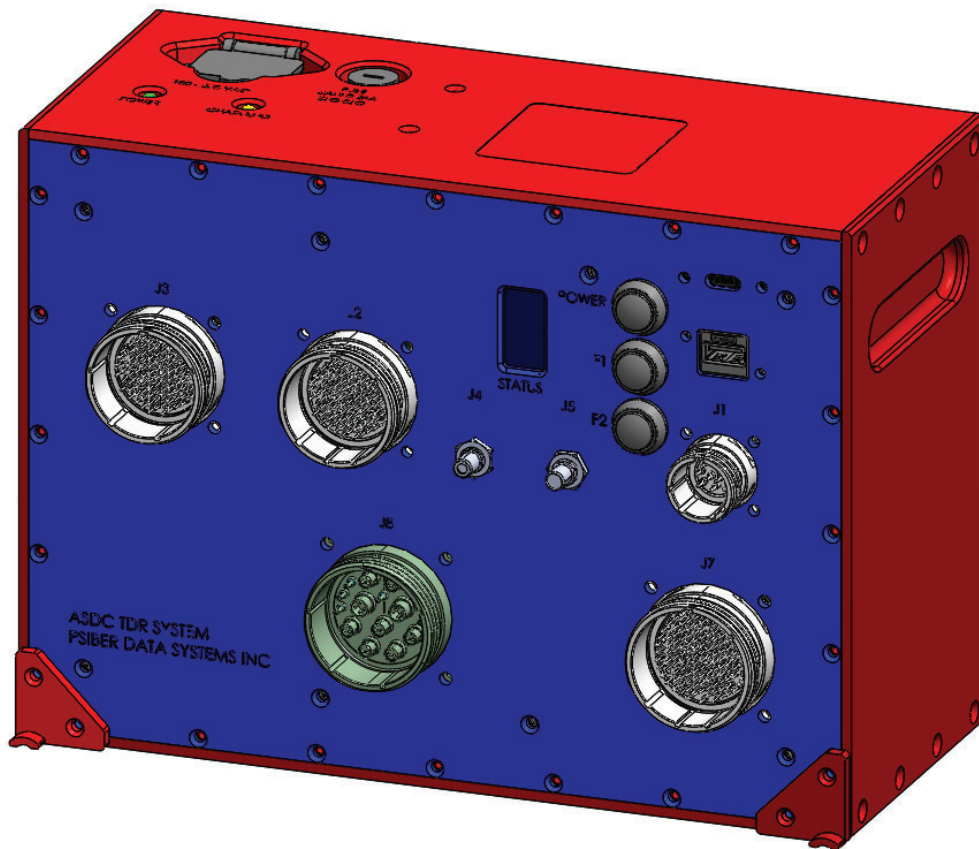


CABLE FAULT LOCATOR

MULTI-CHANNEL CUSTOM CABLE FAULT TESTER



For Manufacturers, Installers and Technicians Installing Wiring Harnesses

Provides Location of an Open, Short or Intermittent Fault

Automatically Test Multiple Wire Harnesses with a Press of a Button

Pinpoint Cable Damage with Incredible 1.2" Resolution

No Dead Zone for Finds Close-in Faults

All Testing Done from One End of Cable

CABLE FAULT LOCATOR (CFL)

Almost all wiring harness production, installation and maintenance use continuity testers to identify faults. CFLs use Time Domain Reflectometry (TDR) technology which provides advanced capabilities that make continuity testers obsolete. Specifically, a CFL can make all tests from one end of a harness, provide the exact location of a fault and identify intermittent faults.

Psiber designed, built and delivered a Depot Level TDR Harness Test System to the US Army for testing complex wiring harnesses specific to a new Heads-Up Display (HUD) on the UH-60 Blackhawk (M, L & V) and CH-47 Chinook aircraft.

The CFL has a resolution of 1.2 inches and a 300 foot maximum range. It also has an intuitive user interface that shows which pin has a fault and the location.

The Dead Zone effect of competing pulse TDR can mask faults in near end connectors and cables. The CFL uses a step function to eliminate this problem. Step TDR technology injects a continuous signal into the cable to detect impedance mismatches.

Learn Mode allows the ASDC TDR Harness Tester to "learn" a cable harness by testing all pins and measuring the length of each to determine if a cable is connected and its length. Once completed, the learn mode will save an aircraft and tail number specific configuration file to be used for future testing. Length measurements are saved as a baseline for additional testing.

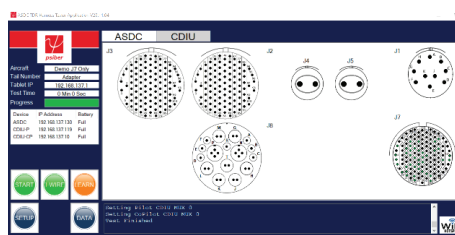
By adding the Learn Mode, the ASDC TDR Harness Test System can be used on future cable harness configurations other than the Blackhawk UH-60 (M, L & V) and Chinook CH-47.

Intermittent faults may require continuous testing. The user can use the 1-Wire feature to look at one pin at a time. Continuous results are recorded and displayed allowing wire harnesses to be stressed by pulling or shaking while testing to locate the intermittent.

Specifications

Cable Fault Locator

- Measures the Length of ASDC Wire Harness
- Automatic test over 100 wires in a single test
- Provides the Distance to Open, Short or Intermittent Cable Faults



Communication Over WiFi

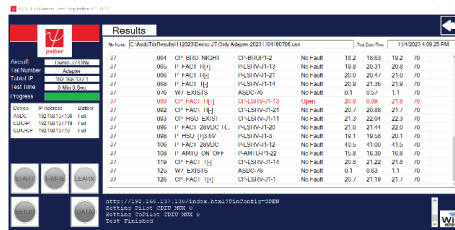
- Window Tablet Runs Mobile Hotspot
- Devices Connects to Tablet and Get IP Addresses
- Tablet Pings Addresses to Verify Connected Devices
- Tablet Runs Software and Start Tests

Intuitive User Interface

- Easier-to-use GUI interface requires little or no training
- Test Application Software is on a Tablet that connects to the ASDC TDR Tester
- Home Screen displays connector pin in yellow when being tested, green when inside length limit and red if a fault is detected

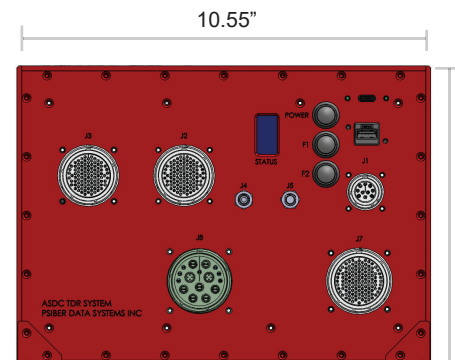
Data Results

- Displays Connector, Pin Number, Signal Name, Destination Name, Fault Type, Min/Max Length Limits, Length Measured and NVP Used
- Faults are Shown in Red with the Fault Type of Open, Short, Intermittent Open or Intermittent Short
- Saved as a CSV File



ASDC TDR Harness Tester:

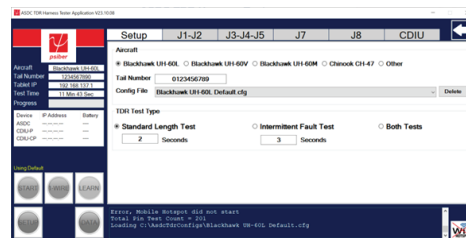
Dimensions	10.55 in. x 7.64 in. x 4.5 in.
Weight	9 pounds
AC Power Adaptor	110/240 VAC
Power	Li-Ion Batteries
User Interface	Tablet Test Software Application
Operating Temp	32°F to 122°F / 0°C to 50°C
Storage Temp	14°F to 131°F / -10°C to 55°C



Features

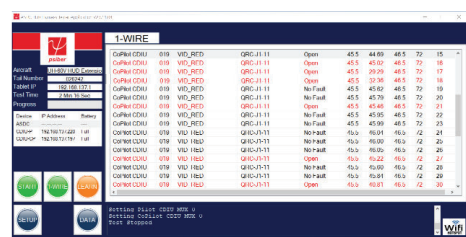
Setup

- Select Aircraft to Show Specific Configuration Files including Tail Number to test
- Configuration File Stores Length Limits & Info for specific Aircraft and Tail Number
- Select TDR Test Type to Test Only for Length or Intermittent Fault or Both
- Increases TDR Test Time in Seconds per Pin
- Ability to Select All Pins or Subset of Pins



1-Wire Mode

- Continuously test and show data results on one pin until the Stop button is pressed
- Find issues on one specific wire allowing wire harnesses to be stressed by pulling or shaking while testing to locate intermittent faults



Learn Mode

- TDR Test All Pins for Length and Automatically Creates a New Configuration File
- If Pin Length is Zero, Software Automatically Assumes No Wire is Connected in That Position and Will Not Be Added to the Configuration File
- Ability to Adapt ASDC Tester to New or Future Wiring Harness Not Currently Listed
- Can Be Used on Other Harness Without Major Software Development

ASDC TDR Harness Test System Includes:

- ASDC TDR Harness Tester
- CDIU Pass Through Devices (2)
- Touchscreen Tablet with User Interface
- Power Cables
- Pelican Case with Custom Foam Insert



Learn more at: www.psiber.com

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