T3 Innovation

AC120

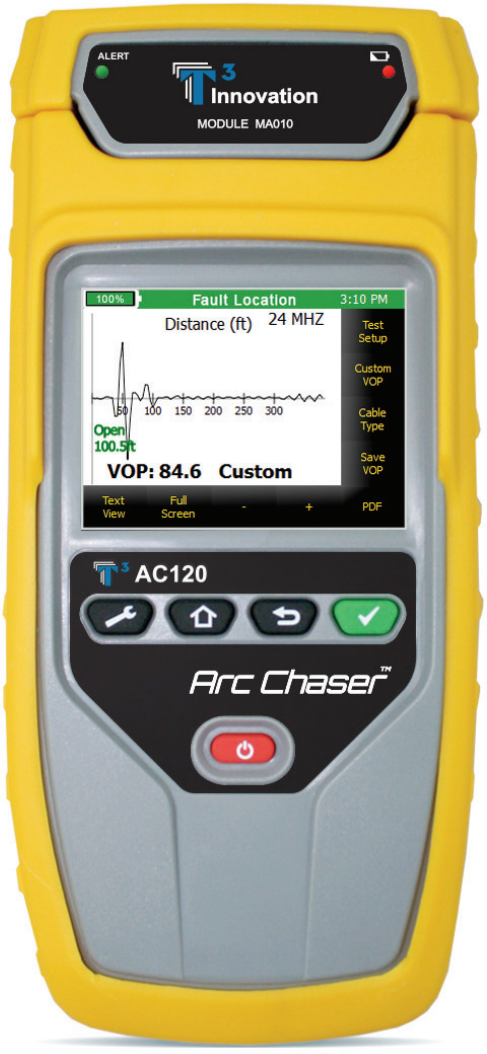
MADE IN THE USA

Arc Chaser™

21st Century Dual Mode TDR for Testing and Monitoring Energized and Unenergized Cables

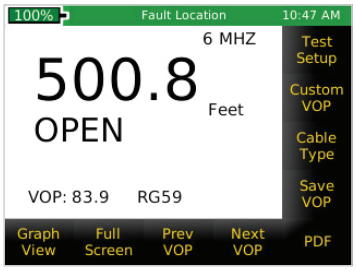
The Arc Chaser Dual Mode TDR is capable of finding faults (Opens, Shorts, **Arc Faults**) on fully energized cables up to 600 Volts. Arc Chaser can monitor live cables for **intermittent** conditions, capturing these "events" and reporting where and when they occur. Using advanced Spread Spectrum Time Domain Reflectometry (SSTDR), Arc Chaser is capable of accuracy to fault of better than 1%.

- **Works on both energized and unenergized cables**
  Discover cable events which can only be shown under load
- **Monitors intermittent arc faults, opens, and shorts**
  Find faults caused by vibration that are otherwise hidden
- **Shows results in graphical or text format**
  Clear and simple view of faults
- **Saves reports, transferrable to PCs for storage, and printing**
  Maintain history of information
- **Cable fault finding**
  Easily verify quality of entire cable length
- **Tone generation**
  Signal tracing of cables
- **Cable Test Setup**
  Walks users through cable test setup
- **Self-calibrates to maintain accuracy over time or due to environmental change**
  No metrology calibration required
- **English or Metric Measurements**
  International applications
- **600V Category II**
  Meets full international requirements for working on energized cables.
- **Rechargeable Lithium-Ion Battery Pack**
  8-10 hours of battery power in the field



Revison 08/19/13

Fault Location



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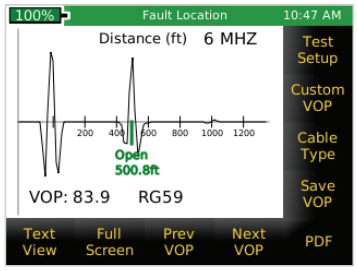
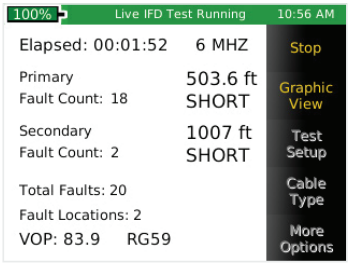


Text

Live Intermittent Fault Detection



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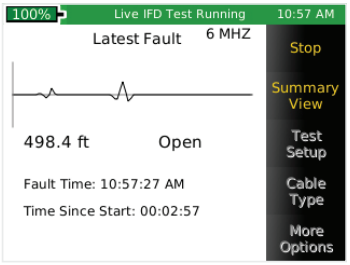

Text

Ordering Information

Part Number	Description
AC120	• Arc Chaser main unit • T3 Leader Cable 5ft 600V CAT III • Flanged crocodile clips: red and black 600V CAT III UL/CSA • Dual banana to BNC female • Adapter: BNC male to F female • Power Supply • SD Card • Micro USB Cable • Carabiner Strap • Protective Arc Chaser Case

Leader Cable & Clips

Arc Chaser Kit

Physical Features

- **Color Touch Screen Display**
  Easy to navigate in all lighting environments
- **Compact Form Factor**
  Usable in tight space environments
- **3rd Generation Rechargeable Lithium-Ion Batteries**
  8 to 10 hours of continuous use
- **Benchtop, Handheld, or Hung Up**
  Easy to use for field flight line and production work
- **Uses Modular Cable Interfaces**
  Can connect to many different types of systems
- **Waterproof/Shock Resistant Transport Case**
  Protects equipment in harsh conditions
- **SD Card for Data File Transfer of Cable Tests**
  Easy to maintain report files and save for later viewing
- **Upgradable Firmware**
  Stay up to date with cable settings, features, and enhanced software upgrades.

Specifications

Measurement Technology	Spread Spectrum Time Domain Reflectometry U.S. Patents and Patents Pending
Power	Wall power voltage input Range: 10→28V, 20W Arc Chaser will run with wall power down to 4V, however batteries will not charge unless input voltage is greater than 10V. Totex battery pack with four LIO Rechargeable Cells. Full screen brightness, dynamic test, 7.8V battery: 335mA. 0→100% brightness, @7.8V: 90mA Typical battery current: 185mA Low power mode (or timed out): 70mA Off mode: 420 µA board (+500uA battery pack circuitry.)
Maximum Range	12,000 ft (3,657m) at .999 VOP Maximum testable cable length varies with VOP and cable type. VOP (%) with 3 digit precision ranging from 20.0% to 99.9%
Output Connector	Banana Jacks 600V CAT II
Leader Cable	Cable Assembly, 5 ft. (1.5m) 600 Volt CAT III, 95 Ohm
Battery Life	Battery Pack, initial 5200 mA·hr (typical): Operating at static screen or occasional static test: 185mA (assuming 65% LCD brightness) Dynamic Operation: 280mA (assuming 65% LCD brightness) Low power: 70mA, assuming full charge of 5000mAH, 71 hours. Off: 420 µA board (+500uA battery pack circuitry.)
Altitude	6,500 ft. (2,000 m) operating
Temperature	Operating: (-10 if standard crystal) -20 to 70°C); Storage: (-30 to 80°C)
Humidity	10 to 90% non-condensing
Enclosure	High-strength PC/ABS plastic with V0 rating with boot
Size	2.41"H x 4.18"W x 9.03"L (6.12 x 10.61 x 22.94 cm)
Weight	With batteries: 1 lb 9 oz (862 g)
Safety Compliances	Complies with ANSI/ISA 82.02.01 (61010-1) 2004, CAN/CSA-C22.2 No 61010-1-04, UL 6101B (2003) and IEC/EN 61010-1 2nd Edition for measurement Category III, 600 V, EMC EN61326-1
Warranty	1 Year

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Made in USA