

# Arc Chaser™

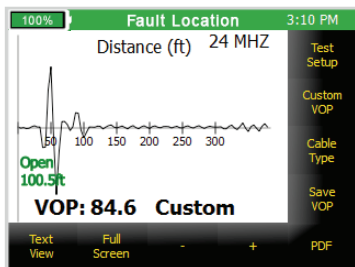
## *21st Century Dual Mode TDR for Testing and Monitoring Energized and Unenergized Cables*

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%.

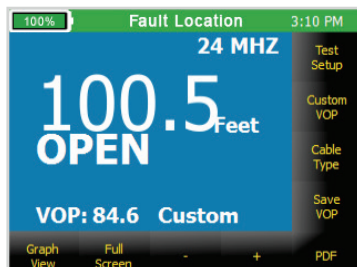
- **Works on both energized or unenergized cables**  
Discover cable events which can only be shown under load
- **Monitors intermittent arc faults, opens and shorts**  
Find faults caused by vibration that are otherwise hidden
- **Shows results in graphical or text format**  
Clear and simple view of 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 III**  
Meets full international requirements for working on energized cables.
- **Rechargeable Lithium-Ion Battery Pack**  
8-10 hours of battery power in the field



## Fault Location

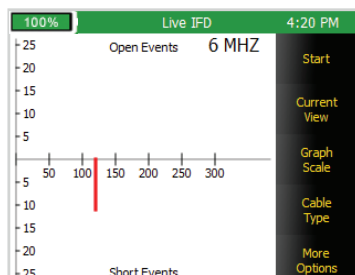


Graphical

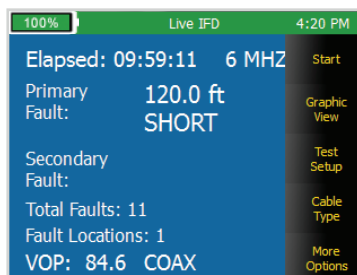


Text

## Live Intermittent Fault Detection



Graphical



Text

## 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

<b>Measurement Technology</b>	Spread Spectrum Time Domain Reflectometry U.S. Patents and Patents Pending
<b>Power</b>	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.)
<b>Maximum Range</b>	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%
<b>Output Connector</b>	Banana Jacks 600V CAT III
<b>Leader Cable</b>	Cable Assembly, 5 ft. (1.5m) 600 Volt CAT III, 95 Ohm
<b>Battery Life</b>	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.)
<b>Altitude</b>	10,000 ft (3,050 m)
<b>Temperature</b>	Operating: (-10 if standard crystal) -20 to 70°C; Storage: (-30 to 80°C)
<b>Humidity</b>	10 to 90% non-condensing
<b>Enclosure</b>	High-strength PC/ABS plastic with V0 rating with boot
<b>Size</b>	2.41"H x 4.18"W x 9.03"L (6.12 x 10.61 x 22.94 cm)
<b>Weight</b>	With batteries: 1 lb 9 oz (862 g)
<b>Safety Compliances</b>	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
<b>Warranty</b>	1 Year

## Ordering Information

Part Number	Description
AC120	<ul style="list-style-type: none"> <li>• Arc Chaser main unit</li> <li>• T3 Leader Cable 5ft 600V CAT III</li> <li>• Flanged crocodile clips: red and black 600V CAT III UL/CSA</li> <li>• Dual banana to BNC female</li> <li>• Adapter: BNC male to F female</li> <li>• Power Supply</li> <li>• SD Card</li> <li>• Micro USB Cable</li> <li>• Protective Arc Chaser Case</li> </ul>



Leader Cable & Clips



Protective Arc Chaser Case