

TRIO® C10-Series Vibration Data Collectors



Welcome Guide

Thank you for choosing one of the most powerful instruments available to support your reliability maintenance program. We appreciate having you as a customer. We hope you will continue to rely on us to provide your organization with superior service and support.



Your TRIO System includes:

- ALERT™ vibration diagnostics software
- TRIO C10-Series controller with stylus
- TRIO DP-2 or DP-2H data acquisition hardware
- TRIO Triaxial HAZLOC accelerometer
- Accessories to meet your program's needs

ALERT Software

The vibration analysis software embedded on your TRIO Controller depends on the C10-Series model you purchased.

- **ExpertALERT™ automated diagnostic software and the Collector X application** are loaded on the TRIO CX10 model controller, making it a diagnostic data collector and expert analyzer – no host software required.
- **ViewALERT™ data collection software and the Collector application** are loaded on the TRIO CA10 model, giving you a field ready data collector that easily integrates with a desktop or hosted version of ExpertALERT.



Installation files are located in the “Installs” folder of the C: drive from the factory. The latest versions and all software updates and upgrades are available via the Azima DLI resource center at <http://knowledge.azimadli.com>. For immediate notification of updates, click the “Follow” button. [Follow ▾](#)

TRIO Controller

This tablet controller runs a Windows® 10 Enterprise Operating System and has a 10-inch capacitive touch screen. It is rated for IP-65 environments. **This controller is NOT rated for hazardous locations.** Please read the manual provided by handheld for additional use detail.

BATTERY: Under normal use conditions, battery life is about 4 hours with the standard battery and 7 hours with the extended-life battery. The TRIO C10 batteries are hot-swappable. A sealed, internal battery will hold a charge for a few minutes during swap. Batteries are shipped fully charged but may need to be charged once received.

Carry Options: The package includes a shoulder strap for use in the field.

TRIO Data Processor

The Data Processor, or DP, is a wireless data acquisition device. The internal batteries of the DP are sealed inside the rugged enclosure and not replaceable in the field. Battery life is eight hours of continuous data collection.

DP-2 vs DP-2H: The TRIO C10 Controller is compatible with both the DP-2 and DP-2H, however, for hazardous environments, ensure all TRIO components are rated appropriately. The DP-2H is a HAZLOC Class 1, Division 2 acquisition device. **PLEASE READ THE TRIO USER'S GUIDE FOR USE IN HAZARDOUS LOCATIONS.**

Carry Options: The TRIO DP includes a utility belt and pouches for the DP, triaxial sensor, and accessories for easy use in the field. An optional courier bag is also available.

HAZLOC Accelerometer

A HAZLOC-rated, triaxial accelerometer with six-foot coiled cable is standard with the TRIO. The TRIO DP uses an M-12 style connector for sensor attachment. Extension and adapter cables are available for use with legacy or permanently installed sensors.

AC Charger

The TRIO system comes with an AC charger and universal power cable to charge the controller. A USB cable is included to charge the DP using the controller or a standard LPS, USB power adapter. The cable can also be used to tether the DP to the controller for optional communication in the field.

Accessories

- An included USB drive is essential in backing up your database.
- A ball driver is included for quick attachment of your triaxial accelerometer.
- Your triaxial sensor has a locking captive screw installed. The original, shorter captive screw is enclosed.
- The transit case has a foam insert that can be removed to fit your carrying configuration and other gear.
- Optional laser tachometer with 6 foot coiled cable and M-12 connection can connect to the DP TACH input. The tachometer is powered from the TRIO DP. Note, Azima does not carry a HAZLOC-rated tachometer.

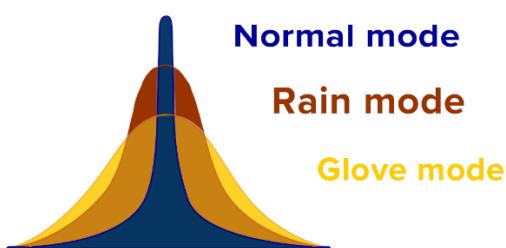
Please refer to your packing list to confirm your purchased items.



Refer to all User's Manuals for additional details about your TRIO System or Controller. When operating in Hazardous Locations, ensure all components are rated per your site's requirements and follow all instructions provided in the component's instructions.

Understanding Capacitive Touch

The touch screen has multiple modes of operation to adapt to your environment and input method preferences.



To access the touch mode options, **press Touch-mode Control Button or Hot-tab Menu Button** on the controller.

Normal mode works best with bare finger or soft- or hard-tipped stylus (factory default setting).

Rain mode recognizes water droplets which may interfere with the screen. This mode works best with bare finger. A wiping rag is recommended to help screen touch performance.

Glove mode offers the most flexible input with bare skin, gloves, and soft-tipped stylus.

Touch Locked when enabling Touch Lock, the screen, Function buttons, Home button and Hot-tab menu button are disabled. Press the Touch-mode Control button to unlock screen.

NOTE: The TRIO C10-series tablet works best with soft-tipped stylus pens.

Screen brightness can be found by pressing Hot-tab menu button and select Settings.





First Time Use – Controller

LOGIN

Factory default User name / password to the TRIO Controller are: **trio / trio** (swipe up to log in)

Factory default User name / password to the ALERT software are: **dba / sql** (keyboard in system tray)

User names and passwords can be changed per your IT requirements and additional users can be created in ExpertALERT. Resetting these passwords is the responsibility of the user or administrator.

Azima cannot assist in password recovery.

This TRIO was shipped with a **90-day term license** of the software. The software is fully functional during this term. Contact Customer Support to register your TRIO and receive your activation keys for the full license term.



1. **Power:** Press and hold 4 seconds to turn on. When on, press again to put to sleep.
2. **Touch-Mode Control and Hot-tab Menu:**
Lock Button = Toggles touchscreen modes
Menu = Access Hot-tab Utility for system information and battery status, and to configure device and Function buttons and to adjust brightness.
3. **Home:** Windows Start/Home Menu
4. **Function Buttons:**
F1 Short Press = Launch Collector application
F1 Long Press = Launch ALERT application
F2 Short Press = User Defined
F2 Long Press = DP-Config Utility
5. **Network, USB 3.0, Combo-audio Jack**
6. **SIM Card and Micro SD Slots**
7. **Strap brackets:** For installing the shoulder strap
8. **DC Power Jack and VGA Connector**
9. **USB 2.0 Port and RS232 Connector**
10. **Stylus and 5 MP Camera (Back)**
11. **LED Indicators**
12. **Light Sensor**

First Time Use – TRIO DP

1. Power: Short press to toggle on and off.

2. Power Indication Light:

Off: Not connected to power source

Red: Unit is charging

Green: Unit fully charged

3. Bluetooth Indication Light:

Flashing Blue: Not connected to Controller
Solid Blue: Connected to Controller

4. Activity Indication Light:

Solid Green: DP is powered on

Quick Flashing Green: Acquiring data

Slow Flashing Green: Battery is below 10%

5. Tachometer Trigger Light:

Flashing Green: at pulse rate

6. M-12 4-channel Sensor Input

7. M-12R Tachometer Input Note, the DP-2H has a locking cap that is required for HAZLOC use.



On the bottom of the device, **USB CONNECTION PORT** for charging and to tether to the TRIO Controller.

Need Help?

- Azima DLI Product Warranty terms and conditions can be found on our website: www.AzimaDLI.com/warranty
- Application Notes and User Guides are available from a shortcut from the desktop or in the Start Menu:
Start / Azima DLI / TRIO Users Guide and ALERT Users Guide
- Downloadable User Manuals and other Application Notes and knowledge articles are available in the online resource center:
<http://knowledge.azimadli.com>
- Integrated chat with our Technical Support from the Start Menu:
Start / TRIO Remote Support
- Contact Azima Technical Support:

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