TRIO® 10-inch Controller

Getac UX10 / TRIO T10

✓ **RUGGED**

✓ **POWERFUL**

✓ **3-year WARRANTY**

TRIO® T10 gives versatility to the field analyst.

The TRIO 10-inch controller provides field analysts with a powerful user-interface that is easy to navigate, simple to use, and robust in harsh industrial environments.

1000 nits of brightness make the 10.1" FHD capacitive-touchscreen readable even in bright sunlight, while its digitizer-stylus, rain, and glove touch capability makes visibility and productivity possible in extreme conditions.

With **Window® 10 Professional** installed, you are ready to connect the TRIO Controller to your network or operate as a stand-alone device, supporting your productivity applications and multiple language options.

TRIO is **WATCHMAN™** Portal-enabled and ready to connect to the AzimaAI hosted, WATCHMAN Data Center for simplified database synchronization infrastructure and unparalleled program visibility.

FEATURES INCLUDE

✓ 10.1" FHD Capacitive Touchscreen with digitizer stylus pen, rain-mode or glove-mode operation

✓ 8+ hour standard battery, high-capacity optional

✓ Powerful Intel® Core™ i5 Processor, 8GB RAM and 256 GB solid-state drive (SSD)

✓ Bluetooth® integration with TRIO DP-2 / DP-2H acquisition hardware for safe in-field collection

✓ 3-year inclusive warranty on TRIO Controller

✓ **Optional Class 1, Division 2 HAZLOC** approval when paired TRIO DP-2H acquisition hardware

✓ **Optional Total TRIO®** database hosting, cloud application, web portal reporting, business-level metrics and analytical second opinions

SYMPHONY AZIMA AI

SYSTEM OVERVIEW

- Triaxial vibration data collector
- Industrial Windows 10 Professional 64-bit (CBB) tablet PC controller
- Wireless, modular-designed data acquisition unit (DP-2/DP-2H)
- Optional handheld laser tachometer
- Safe, flexible carrying options
- ALERT™ Data Collection Application
- Optional embedded Expert Automated Diagnostic System
- Survey File Transfer Exchange or optional ALERT replication or WATCHMAN Sync Utility for synchronization over multiple devices or ALERT systems
- Optional 4-plane machine in-place balancing and advanced analysis options

USER INTERFACE / DURABLE TABLET CONTROLLER

Physical / Environmental / Durability

- Size: 10.82" x 7.51" x 0.88" (275mm x 191mm x 22.4mm)
- Weight: 2.68 lbs (1.22 kg)
- Operating: -29C to +63C; Storage: -51C to +71C
- Humidity: 95% RH, non-condensing
- Rugged per MIL-STD-810G
- IP65, IEC 60529 rated; water, sand, and dust protection
- Class 1, Division 2, Group A, B, C, D, T6 per UL/ANSI/ISA 12.12.01

Processor/Operating System

- Intel® Core i5-8265U 1.6 GHz Processor
- 8 GB DDR4 system memory, 256 GB Solid State Drive (SSD)
- Genuine Windows 10 Professional CBB (64-bit)
- TPM v2.0 data security; NIST BIOS compliant

Battery

- Lithium-ion battery: 11.1V, 4200 mAh capacity
- Optional high capacity battery: 10.8V, 9420 mAh

Communication

- Intel dual-band wireless-AC 9260 (802.11ac)
- Integrated Bluetooth v5.0
- 10/100/1000 base-T ethernet

Inputs / Outputs

- 10.1" Capacitive touchscreen, 1920x1200 resolution
    - IPS TFT FHD LCD, 1000 NITs, LumiBond® 2.0 sunlight readable
    - Digitizer Pen, Rain Mode, Glove Mode
- USB 3.1 port
- HDMI
- DC power input port
- Speaker, audio / microphone combo-jack
- 6 button keypad (power, volume up, volume down, home, P1, P2)
- Rear-facing 8.0 MP built-in camera with autofocus
- Front-facing FHD webcam
- On-screen QWERTY soft keyboard

Carry Options

- Shoulder strap and palm-strap with kickstand
- Optional 4-point harness

TRIO DATA ACQUISITION / PROCESSOR (DP-2/DP-2H)

Data Acquisition Inputs

4 simultaneous sampled, fully phase matched, ICP programmable
Other Coupling: AC (for proximity probe connection)
AC Input Voltage Range: ±10V
AC Bandwidth: 0.5Hz to 40kHz
DC Bias/Gap Measurement: ±25V range for ICP bias voltage check and proximity probe gap measurement
Measurements: Acceleration, velocity (by hw integration), bearing demodulation (accelerometers), and displacement (proximity probes)
Gain Ranges: Gain steps 1, 2, 5, 10, 20 and 50
Digital trigger input: External trigger, tachometer speed, ordered data (by phase-lock-loop)

Processing

AC Measurements

ADC: 24-bit sigma-delta, simultaneous on four AC channel inputs, better than 104 dB dynamic range
Sampling Rates: 64Hz to 102.4kHz
Bandwidth Ranges: 0.5–25kHz, 0.5–40 kHz, protected by anti-alias filters
Data Block Lengths: 64 to 400,000 samples
Spectral lines: Up to 25,600
Noise Floor: Less than 0.2 μ-volts per root Hz from 0.5-1000 kHz

DC Measurements

ADC: 16-bit multiplexed for bias voltage, process, and probe gap measurements, 0-10 kHz Bandwidth

Analysis Capabilities

Dynamic Analysis: Overall, Spectra, Waveform, Phase and Speed
Cross-Channel: Cross-power, Transfer Function, Coherence, Phase and Magnitude
Demodulation Function: Digital amplitude demodulator and Impact Demodulation for low speed detection
Averaging: RMS, Exponential, Peak Hold, Order Tracking, Synchronous Time and Negative Averaging
Number of averages: 1-1000
FFT Window Function: Hanning, Hamming, Rectangular, Flattop

Communications with Host Tablet PC/Controller

Wireless - Bluetooth v2.0 with EDR (1.5Mbps max)
Wired: USB user port (includes data stream and remote power to DP)

Power

Charging rate: 0.5A from USB PC input (4 hrs.), 1.0A from USB wall adapter
Battery Life: 8 hours between charges (continuous collection)

Physical / Environmental / Durability

Dimensions: 6.18" x 3.62" x 1.81" (157mm x 92mm x 46mm)
Weight: 1.0 lb. (450 grams)
Carrying options - Belt worn holster or shoulder worn soft pack
Operating Temperature: -10C to +60C
IP-65 rated; water, sand, and dust protection
4' drop per MIL-STD-810G
0 ~ 90% humidity per MIL-STD-810G
Compliance: CE, ETL Listed, Optional: Class 1, Division 2, Group A, B, C, D, T6