Technology Advancement Group

WAYPOINT Handheld

Multi-source Handheld Navigation System

Resilient PNT for Emergency Responders

The **WAYPOINT** delivers reliable, **multi-source PNT** for dismounted users in GPS challenged environments. Lightweight, rugged, and user-friendly, it provides critical positioning and timing, to emergency responders in the worst conditions imaginable.

The **WAYPOINT** features a **GNSS receiver, a Physics Sensor Package, fusion capability** and advanced antenna design

- Power options include **four AA batteries, USB Powerpack, or direct platform connection** for flexible operation.
- **Integrated Integrity Engine** that continuously monitors signal quality and detects jamming or spoofing threats.
- The **WAYPOINT** can be integrated into any system requiring **Resilient PNT** with little or no modification.

Technology Advancement Group®, Inc. Proprietary Information

Technology Advancement Group®, Inc. ▪ 21580 Beaumeade Cir. Suite 210, Ashburn, VA 20147 ▪ Inquiries@tag.com ▪ 703-406-3000

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Physical Characteristics	
Power	4x AA batteries (19+hrs @ -20°C)
Weight	380 grams (less than a pound)
Size/Volume	134mm x 81mm x 29mm (the size of a wallet)
Display Size	3.5" transflective high resolution display 1.1" Ultra-low power
Temperature Range	Operating: -32°C to +70°C Storage: -57°C to +70°C
Humidity	Between 0% (+5%) and 100% (-5%).
Water Resistance	Survives for 12-hours at depths up to 1.6m
Altitude	-400 to +10,000 m MSL; Reacts to rapid change in altitude
Internal Antenna	High gain, multi-band helical antenna

Minimum System Performance	
Time to first fix	Cold: < 5 minutes Warm: < 1 minute
Time accuracy	~100 – 200 nanoseconds
Position accuracy	95% within a 5-meter CEP
External Antenna	Compatible with antennas from multiple vendors
Velocity accuracy	On foot: 0.3 m/s steady rate (3D 95%) In Vehicle: 25 m/s
MTBF	10,000+ hours
Spectrum Range	GPS (L1/L2) CA; Galileo, QZSS, BeiDou
Timing Input/Output	1 PPS input 3 x 1 PPS output
Interfaces	Two (2) RS-232 and one (1) RS-422 serial data port; One (1) USB-C connector (USB2-FS)

Specifications subject to change

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