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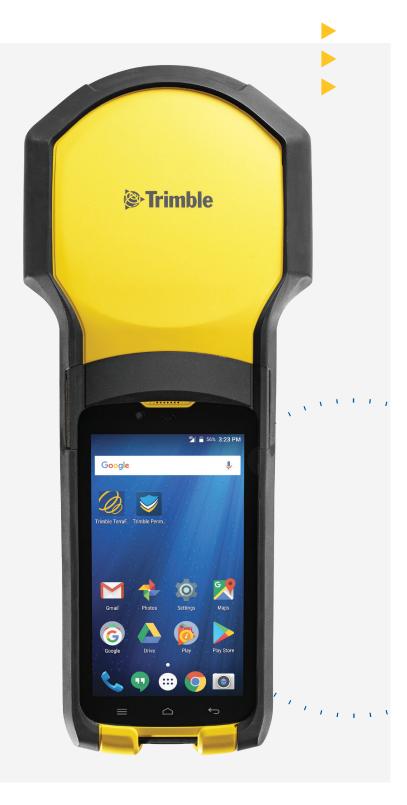
Trimble TDC150

HANDHELD

KEY FEATURES

- ► Integrated high-accuracy GNSS receiver
- Scalable positioning accuracy from meter to centimeters
- ► Android[™] 6.0 operating system
- ► 5.3-inch sunlight readable multi-touch capacitive screen
- Google Mobile™ services certified to run Google core applications and services
- Compatible with Trimble or third-party software applications
- ► High speed 4G LTE cellular data connectivity
- Ultra-rugged design with MIL-STD-810 certification and rated IP67
- ► Removable, all day battery
- ► Fast Qualcomm® processor with 2 GB RAM and 16 GB internal storage
- ► Ergonomic form factor
- Front- and rear-facing cameras

Learn more: geospatial.trimble.com/tdc150





Trimble TDC150 HANDHELD

GNSS CHARACTERISTICS

- 240 GNSS channels
- GPS L1C/A, L1P(Y), L2P(Y), L2CGLONASS L1C/A, L2C/A
- BeiDou B1 (phase 2), B2
- Galileo E1, E5b
- QZSS L1C/A, L2C, L1SAIF
- SBAS L1C/A
- L-band
- Scalable accuracy from meter to centimeter (meter, sub meter (30/30), decimeter (7/2), centimeter) Patented Z-Blade technology for optimal GNSS performance
- - Full utilization of signals from all 6 GNSS systems (GPS, GLONASS, BeiDou,
 - Galileo, QZSS and SBAS)
 Enhanced GNSS-centric algorithm: fully-independent GNSS signal tracking and optimal data processing, including GPS-only, GLONASS-only or BeiDou-only solution (autonomous to full RTK)
- Fast Search engine for quick acquisition and re-acquisition of GNSS signals
- Patented SBAS ranging for using SBAS code & carrier observations and orbits in RTK Processing
- Patented Strobe™ Correlator for reduced GNSS multi-path
 Supported data formats: ATOM, CMR, CMR+, RTCM 2.1, 2.3, 3.0, 3.1 and 3.2 (including MSM), CMRx and sCMRx

REAL-TIME ACCURACY (RMS)1,2

SBAS (WAAS/EGNOS/MSAS/GAGAN) Horizontal < 50 c Vertical < 85 c	
Real-Time DGPS position 25 cm + 1 pg Horizontal 50 cm + 1 pg Vertical 50 cm + 1 pg	
Real-Time Kinematic Position (RTK)³ 10 mm + 1 pg Horizontal 15 mm + 1 pg Vertical 15 mm + 1 pg	om om
REAL-TIME PERFORMANCE Instant-RTK* Initialization	km

RTK initialization range over 40 km DATA LOGGING CHARACTERISTICS

Recording interval .

PROCESSOR

- Oualcomm Snapdragon™ 410
- Quad-core
- · Clock frequency: 1.2 GHz

OPERATING SYSTEM

- Android 6.0 (Google certified) Languages available: Afrikaans, German, English, Spanish, French, Italian, Portuguese (Portugal and Brazil), Japanese, Korean, Simplified Chinese, Greek, Russian, Azebaijani, Czech, Danish, Lithuanian, Hungarian, Dutch, Norwegian (Bokmal), Romanian, Finnish, Swedish, Turkish, Bulgarian, Serbian (Cyrillic), Hindi, Polish
- Software package includes: Google Mobile Services

MEMORY

- 2 GB SDRAM
- Storage: 16 GB (non volatile).
- MicroSDHC™ memory card (up to 64 GB, SanDisk®, Kingston® recommended)

INTERFACE

- USB 2.0 (micro)
- External antenna connector (TNC)
- Audio jack 2.5 plug (CTIA/AHJ standards)

COMMUNICATIONS

- Cellular: GSM (850,900,1800,1900), GPRS, EDGE, UMTS, WCDMA (B1, B2, B5, B8), HSPA, TDSCDMA (B34, B39), LTE-FDD(B1, B3, B4, B5, B7, B8, B20), LTE-TDD (B38/B39/B40/B41)
- Wi-Fi (IEEE) 802.11 b/g/n
- · Bluetooth 4.0 dual mode
- USB (micro B USB connector)
- NFC

ENVIRONMENTAL CHARACTERISTICS

	20 °C to +60 °C (-4 °F to 140 °F)
	°C to +70 °C without battery (–22 °F to 158 °F) ⁵
	95% non condensing
Water & dust proof	IP67
	1.2 m on concrete
	MIL STD 810 (fig 516.5-10) (01/2000)
Vibration	MIL-STD-810F (fig 514.5C-17) (01/2000)

POWER CHARACTERISTICS

BatteryLi-lon, 6400mAh
Battery life
Charging time
Removable battery

.... between Portrait and Landscape

PHYSICAL CHARACTERISTICS

/veign
Jser interface 2 volume keys, on/off/reset key, 2 programmable keys,
standard Android touch panel buttons
On screen keyboard display
Size
Resolution
Brightness 450 Cd/m ²

MULTIMEDIA & SENSORS

Gorilla Glass damage-resistant

- Rear camera 13 MP pixels with flash light
- Front camera 2 MP pixels

Auto rotate

G-sensor

Up to 99.9% reliability

- Speaker
- Microphone
- Light sensor

STANDARD ACCESSORIES

- Handstrap
- Screen protectors (x2)
- A/C charger USB cable
- Pouch Battery door opener
- Monopole adaptor

OPTIONAL ACCESSORIES

- External GNSS antenna
- Pole bracket Monopole

OPERATING MODES

- RTK rover: Direct IP, NTRIP (VRS, FKP, MAC networks)
- · Post-processing (if supported by the field application)

FIELD SOFTWARE

- Trimble TerraFlex™ Trimble Penmap® for Android
- Third-party Android applications
- 1 Accuracy and TTFF specifications may be affected by atmospheric conditions, signal multipath, satellite
- accuracy and orrections availability and quality.

 Performance values assume minimum of five satellites, following the procedures recommended in the product manual. High multipath areas, high PDOP values and periods of severe atmospheric conditions may degrade performance. Real time accuracies depend on TDC150 accuracy option.

 TDC150 centimeter used with Monopole accessory.

 Long baselines, long occupations, precise ephemeris used.

 Batteries can be stored up to +70 °C.

 Receiver convergence time varies based on GNSS constellation health level of multipath and proximity to

- Receiver convergence time varies based on GNSS constellation health, level of multipath, and proximity to obstructions such as large trees and buildings. Convergence can be improved in RAM enabled regions.

Specifications are subject to change without notice



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Trimble

Contact your local Trimble Authorized Distribution Partner for more information