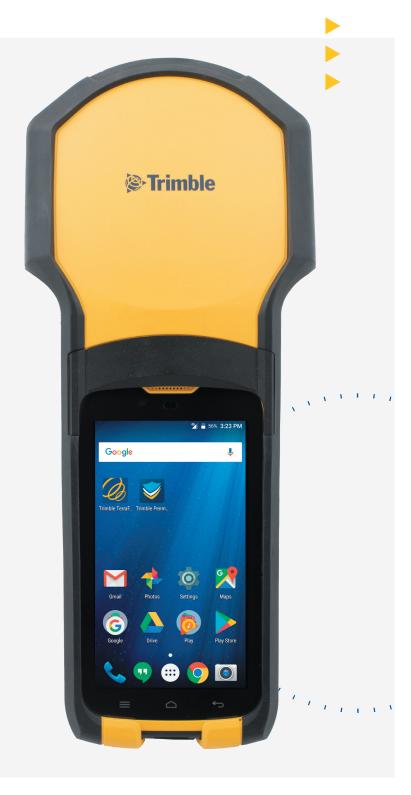
Trimble TDC150

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

 The Processing 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 cm	n
Vertical	n
Real-Time DGPS position	
Horizontal	n
Vertical	n
Real-Time Kinematic Position (RTK) ³	
Horizontal	n
Vertical	n
REAL-TIME PERFORMANCE	

RTK initialization range.....

DATA LOGGING CHARACTERISTICS

PROCESSOR

- Qualcomm Snapdragon™ 410
- Ouad-core
- Clock frequency: 1.2 GHz

OPERATING SYSTEM

- Android 6.0 (Google certified)
- Android G. Google Certinean 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, Finish, 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

Operating temperature	20 °C to +60 °C (-4 °F to 140 °F)
	°C to +70 °C without battery (-22 °F to 158 °F)
	95% non condensing
	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

Battery	Li-lon, 6400mAh
Battery life	rs @ 20 °C with GNSS on
Charging time	4 hours
Nemovable battery	

......29.5 x 12 x 4.5 cm (11.6 x 4.7 x 1.8 in)

..... between Portrait and Landscape

PHYSICAL CHARACTERISTICS

Weigh	
User interface	2 volume keys, on/off/reset key, 2 programmable keys,
	standard Android touch panel buttons
On screen keyboard display	
Size	5.3" capacitive multi touch
Resolution	1280x720 pixels
Rrightness	450 Cd/m ²

MULTIMEDIA & SENSORS

Gorilla Glass damage-resistant

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

Up to 99.9% reliability

..... over 40 km

Auto rotate

- G-sensor
- 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
- Accuracy and TTFF specifications may be affected by atmospheric conditions, signal multipath, satellite geometry and corrections 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 obstructions such as large trees and buildings. Convergence can be improved in RAM enabled regions.

Specifications are subject to change without notice.



Contact your local Trimble Authorized Distribution Partner for more information

Email: mapping@seilerinst.com Toll Free: 888-263-8918

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