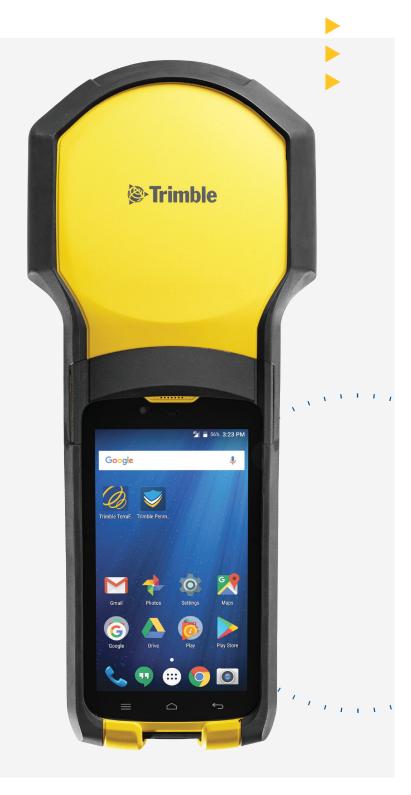
# Trimble TDC150

## HANDHELD

### **KEY FEATURES**

- ► Integrated high-accuracy GNSS receiver
- Scalable positioning accuracy from meter to centimeters
- ► Android<sup>™</sup> 6.0 operating system
- ► 5.3-inch sunlight readable multi-touch capacitive screen
- Google Mobile<sup>™</sup> 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 cm
Vertical	< 85 cm
Real-Time DGPS position	
Horizontal	25 cm + 1 ppm
Vertical	50 cm + 1 ppm
Real-Time Kinematic Position (RTK) <sup>3</sup>	
Horizontal	10 mm + 1 ppm
Vertical	15 mm + 1 ppm
REAL-TIME PERFORMANCE	
Instant-RTK® Initialization	Typically 2 sec for baselines < 20 km

#### RTK initialization range..... 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**

Operating temperature	
Storage temperature30 °C to +70 °	
Humidity	
Water & dust proof	
Free drop	
Shocks	
Vibration	-STD-810F (fig 514.5C-17) (01/2000)

#### POWER CHARACTERISTICS

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

#### PHYSICAL CHARACTERISTICS

User interface	. 2 volume keys, on/off/reset key, 2 programmable keys,
	standard Android touch panel buttons
On screen keyboard display	
Size	
Resolution	

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

OII	screen keyboard display	
	Size	5.3" capacitive multi touch
	Resolution	1280x720 pixels
	Brightness	450 Cd/m <sup>2</sup>
	Gorilla Glass damage-resistant	
	Auto rotato	hatwaan Partrait and Landsaana

#### **MULTIMEDIA & SENSORS**

- · Rear camera 13 MP pixels with flash light
- Front camera 2 MP pixels
- G-sensor
- Speaker

Up to 99.9% reliability

- 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 orrestions may be annexed by armospheric conditions, signal multipart, satelline 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

- 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

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