



MobileMapper 50

DATA COLLECTOR

THE IDEAL SLIM, RUGGED COLLECTOR FOR FORENSICS.

The MobileMapper® 50 is the rugged, lightweight, next generation GIS data collector that delivers superior quality and improved performance for forensics. This Android device combines the latest smartphone capabilities with a durable compact design and proven Trimble® GNSS technology. The result: a powerful, easy-to-use professional grade data collector in a consumer smartphone package.

The MobileMapper 50 paired with Trimble Forensics Capture field software maximizes your efficiency at crime and accident scenes. The slim, rugged receiver puts a powerful 1.2 GHz quad core processor with 16 GB memory and 5.3-inch display in your pocket. That device offers the performance and GNSS positioning you need—including GPS + GLO or GPS + Beidou—as well as full post-processing capabilities.

With the MobileMapper 50, you get the benefit of maximum operational efficiencies, full connectivity (depending on the version), superior accuracy, ample memory and an easy-to-read display, all in a slim, compact design.

Key Features

- ▶ Compact and lightweight
- ▶ Wi-Fi only and 4G versions
- ▶ Enhanced GNSS with postprocessing
- ▶ Strong, waterproof casing - IP67
- ▶ Google Mobile Services
- ▶ Complete field and office Forensic mapping solution
- ▶ Easy-to-learn, easy-to-use field software
- ▶ Three year warranty



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GNSS CHARACTERISTICS

- Internal antenna: 72 channels
 - GPS L1 C/A
 - GLONASS L1 C/A
 - Galileo E1
 - Beidou B1
 - SBAS: WAAS/EGNOS/MSAS/GAGAN/QZSS
 - Tri constellation system: GPS/GAL or GPS/GLO/GAL or GPS/Beidou/GAL
- External antenna connector
- NMEA output
- Raw data recording

ACCURACY SPECIFICATIONS

(Horizontal RMS)¹

- Real-time SBAS: < 1.5 m typical
- Post-processed: < 80 cm typical

PROCESSOR

- Qualcomm 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, Azerbaijani, Czech, Danish, Lithuanian, Hungarian, Dutch, Norwegian (Bokmål), Romanian, Finnish, Swedish, Turkish, Bulgarian, Serbian (Cyrillic), Hindi, Polish
- Software package includes: Google Mobile Services, Sat-Look

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) (not available on Wi-Fi only version)
- Wi-Fi (IEEE) 802.11 b/g/n
- Bluetooth 4.0 dual mode
- USB (micro B USB connector)
- NFC (not supported in Wi-Fi only version)

PHYSICAL CHARACTERISTICS

Size

- 164 x 82 x 14.6 mm (6.45 x 3.22 x 0.57 inches)

Weight

- 310 g with extended battery (278 g for Wi-Fi only version with standard battery)

User Interface Keyboard

- 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
- Brightness: 450 Cd/m²
- Gorilla Glass damage-resistant
- Auto rotate

MEMORY

- 2 GB SDRAM
- Storage: 16 GB (non volatile), 8 GB for Wi-Fi only version²
- MicroSDHC™ memory card (up to 64 GB, SanDisk®, Kingston® recommended)

ENVIRONMENTAL CHARACTERISTICS

- Operating temperature: -20° to +60°C (-4 to 140°F)
- Storage temperature: -30° to +70°C without battery (-22 to 158°F)
- Humidity: 95% non condensing
- Water & dust proof: IP67
- Free drop: 1.2 m on concrete

POWER CHARACTERISTICS

- Battery Li-Ion, 4800mAh (3100mAh for Wi-Fi only version)
- Battery life: > 15 hrs @ 20 °C with GPS on 3
- Charging time: 4 hours
- Removable battery

INTERFACE

- USB 2.0 (micro)
- External antenna connector
- Audio jack 2.5 plug (CTIA/AHJ standards)
- Pogo pin connector (Serial, USB, Power in)

MULTIMEDIA & SENSORS

- Rear camera 13 M pixels with flash light (8 M pixels on Wi-Fi only version)
- Front camera 2 M pixels
- E-Compass (not supported in Wi-Fi only version)
- G-sensor
- Speaker
- Microphone
- Light sensor

STANDARD ACCESSORIES

- Lanyard
- Screen protectors (x2)
- A/C charger
- USB cable

OPTIONAL ACCESSORIES

- External magnetic GPS antenna
- Pole bracket
- High capacity battery: 4800 mAh

- 1 Accuracy performance achieved in good conditions (open sky) with GPS/GLO and more than 7 satellites in view (with SNR> 45 dBHz) (including 1 SBAS).
- 2 These are full capacity, but available memory space is lower as operating system and pre-loaded applications take part of the memory.
- 3 With high capacity battery, backlight on at 70% brightness, and all wireless off.

Specifications can change without notice

	MobileMapper 50 Wi-Fi Android 6	MobileMapper 50 4G Android 6
p/n	107705-30	107705-40
Wi-Fi	√	√
Cellular		√
Rear Camera	8 Mp	13 Mp
Storage memory	8 GB	16 GB
Battery	3100 mAh	4800 mAh
e-Compass		√
NFC		√

ПФ «ГЕОКОМ»
 61001 м. Харків, вул. Молочна 3, 3 пов.
 (057) 732-53-12 факс. (057) 732-53-12
geocom.trimble@gmail.com
kh@geocom.com.ua
geocom.in.ua, trimble.org.ua

Contact your local Trimble Authorized Distribution Partner for more information

NORTH AMERICA
 Trimble Inc.
 10368 Westmoor Dr
 Westminster CO 80021
 USA

EUROPE
 Trimble Germany GmbH
 Am Prime Parc 11
 65479 Raunheim
 GERMANY

ASIA-PACIFIC
 Trimble Navigation
 Singapore Pty Limited
 80 Marine Parade Road
 #22-06, Parkway Parade
 Singapore 449269
 SINGAPORE