The GeoXH handheld is equipped with a 220 channel GNSS receiver capable of tracking GPS and GLONASS satellites together with an integrated dual-frequency (L1/L2) GNSS antenna. In conjunction with Trimble field software, the GeoXH handheld uses Trimble H-Star technology to deliver decimeter accuracy in the field, eliminating the need for back-office processing and giving the confidence that the job is done right while still on site.

**Floodlight satellite shadow reduction**
Trees and buildings create satellite shadows, limiting the environments where reliable high-accuracy GNSS data collection can be performed. Using the innovative Trimble Floodlight satellite shadow reduction technology, the GeoXH handheld continues to deliver productive, usable positioning data in areas where legacy GNSS receiver systems cannot.

With Floodlight technology, the GeoXH receiver can compute positions even with very weak satellite signals. Floodlight technology increases the number of positions that are gathered in difficult locations, and boosts accuracy in those places where normally only low accuracy data is available. With the GeoXH handheld, field crews can now work with fewer disruptions, meaning better data, faster, at less cost.

**Never-seen-before display performance**
The GeoXH handheld includes a sunlight-optimized display designed specifically for outdoor operation. It maintains exceptional clarity in all outdoor conditions, including direct sunlight. Text is crisp and easy to read. Background maps and photos are rich and vibrant. At 4.2” (10.7 cm), the display is also big, so the touch panel is spacious and easy to control.
system summary
- Dual-frequency GNSS receiver with Everst™ multipath rejection technology and Trimble Floodlight satellite shadow reduction technology
- Sunlight readable 4.2" polarized
- Optional integrated 3.5G cellular
- Integrated Wi-Fi and Bluetooth wireless technology
- 5 megapixel autofocus camera
- Windows® Mobile® Professional edition
- Rugged and water-resistant

size and weight
- Height: 234 mm (9.2 in)
- Width: 99 mm (3.9 in)
- Depth: 56 mm (2.2 in)
- Weight (inc. battery): 925 g (2.0 lb)

GNSS
- Receiver: Trimble Maxwell™ 6 GNSS chipset
- Channels: 220 channels
- Systems: GPS, GLONASS, SBAS, WAAS/EGNOS/MSAS
- Update rate: 1 Hz
- Time to first fix: 45 s (typical)
- NMEA-0183 support: Optional
- RTCM support: RTCM2.x/RTCM3.x
- CMR support: CMR/CMR+/CMRx

GNSS aCurNaCy (HRMs) & aFtr CorReCTION
- Real-time H-Star®: 10 cm ± 1 ppm
- Real-time code corrected
- VRS or local base: 75 cm ± 1 ppm
- SBAS (WAAS/MSAS/EGNOS): < 1 m
- H-Star postprocessed: 10 cm ± 1 ppm
- Code postprocessed: 50 cm ± 1 ppm
- Carrier postprocessed: 45 minutes ± 2 cm

temperaTuRe
- Operation: -20 °C to +50 °C (-4 ºF to 122 ºF)
- Storage: -30 °C to +70 °C (-22 ºF to 158 ºF)
- Charging: 0 °C to +45 °C (32 ºF to 113 ºF)

MeChaNiCal
- Drop: 1.2 m (4 ft) plywood concrete
- Vibration: Method 514.5

aLuTtDe & HuMiDiTy raTIngS
- Relative humidity: 95% non-condensing
- Maximum operating altitude: 3,658 m (12,000 ft)
- Maximum storage altitude: 5,000 m (16,400 ft)

INGeress PrOtECtiOn
- Water/Dust: IP67

baTtery
- Type: Li-ion
- Capacity: 4.8 Ah
- Charge time: 4 hours (typical)

baTtery rUn tiMe
- GNSS only: 10 hours
- GNSS & VRS over BT: 9.5 hours
- GNSS & VRS over Wi-Fi: 8.5 hours
- GNSS & VRS over Cellular modem: 5 hours
- Standby time: 50 days

BuToN & CoNTroLS
- Power key
- Left & right application
- Camera key

CoNNectiOnS & iNPutS
- Internal microphone and USB serial via optional connector
- Mini SIM socket
- SDHC card socket

CaMoRa
- Still mode: Autofocus 5 MP
- Video mode: Up to VGA resolution
- Video file format: WMV with audio

CeLLuLaR & WireLess
- UMTS/HSDPA: 850/900/1900 MHz
- GPRS/EDGE: 850/1900/1800 MHz
- Bluetooth: Version 2.1 + EDR

diSPlaY
- Type: Transreflective LED-backlit LCD
- Size: 4.2” (diagonal)
- Resolution: 480x640
- Luminance: 280 cd/m²

HaRDwaRE
- Processor: TI OMAP 3503
- RAM: 256 MB
- Flash: 2 GB
- External storage: SD/SDHC up to 32 GB

LaNGuaGeS
- English (US), Spanish, French, German, Italian, Portuguese (Brazilian), Chinese (Simplified), Korean, Japanese, Russian

IN the BOX
- GeoExplorer 6000 series
- Pouch
- Hand strap
- USB data cable
- Rechargeable battery pack
- AC adapter
- Screen protector kit
- Spare stylus & tether

OPtional aCceSSoriES
- External GNSS antenna
- Range pole kit
- Backpack kit
- Vehicle mount
- Hard case
- GeoBeacon TDL 3G cellular modem receiver
- USB to serial converter cable

SOftware COMPaTiBiliTY
- Trimble Office software
- Esri ArcPad software
- Trimble GPS Connect software
- GPS & Wi-Fi modem
- Trimble Foundation ArcGIS extension
- GeoXH phone pack

OPtional aCceSSoriES
- External GNSS antenna
- 1.5 Range pole kit
- 5 m Rechargeable battery pack
- External antenna

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Specifications subject to change without notice.