SERVING AUSTRALIA SINCE 1984
GSR LASER TOOLS
GEODETIC SUPPLY & REPAIR

CHC

LT500 Series

KEY FEATURES

- *Alternative accuracy from sub-meter to centimeter, meet the needs of different levels*
- *Windows Mobile® WEHH operating system*
- *1 GHz high speed CPU, 512 MB RAM, 16 GB ROM*
- *4.3" large High-Definition screen, special for field work*
- *Optional 4G wireless module, more convenient access to Internet*
- *Gyro, laser alignment, magnetometer, accelerometer*

LT500 Series GNSS Handheld Receiver

Versatile Surveying & Mapping Solutions

The CHC LT500 series offers 3 different options to meet requirements of various applications with adoption of Windows Mobile® WEHH operating system. Featuring with outstanding specifications and cutting-edge technologies integrating with gyro, laser alignment and accelerometer, the LT500 series makes your work more efficient.

LT500H

L1/L2 GPS+GLONASS+BeiDou

The LT500H is designed to realize reliable and accurate positioning for survey and GIS applications with centimeter level position accuracy.

LT500T

L1 GPS+GLONASS+BeiDou

The LT500T can achieve sub-meter accuracy to meet your practical application demands in area of utilities, agriculture, forestry…

LT500

L1 GPS

Equipped with equivalent functions, the LT500 prepares you to capture sub-meter data with extremely affordable price.

Designed for field work

Water resistant, dust and shock proof, the LT500 series is rugged enough to fulfill the task even in tough environments. Benefiting from intelligent electricity storage technology, the battery will support 12 hours fieldwork with GNSS, Bluetooth and WiFi on.

Real-time leveling and centering display

Build-in electronic leveling sensor reminds you whether the receiver is in precision horizontal state. In addition, the laser alignment module enables users to locate the measuring points.

Technical Specifications

GNSS characteristics			
Type	LT500H	LT500T	LT500
Channel	120	220	50
Satellite Signals	GPS: L1, L2; GLONASS: L1, L2; BeiDou: B1, B2	GPS: L1; GLONASS: L1; BeiDou: B1	GPS: L1; GLONASS (optional); BeiDou (optional)
Update Rate	1Hz, or higher	1Hz, or higher	1Hz, or higher
Protocols	RTCM2.x/RTCM3.x CMR/CMR+/CMRx NMEA 0183	RTCM2.x/RTCM3.x CMR/CMR+/CMRx NMEA 0183	RTCM2.x CMR/CMR+/CMRx NMEA 0183
Cold Start	< 30 s	< 30 s	< 30 s
Hot Start	< 15 s	< 15 s	< 15 s
Reacquisition	< 1 s	< 2 s	< 1 s
Stand alone GPS	2 m	2 m	2 m
Real-time Correction	2 cm	0.2 m	0.5 m
With SBAS	< 1 m	< 1 m	< 1 m
Post Processing Static	Horizontal: 5 mm ± 1 ppm Vertical: 10 mm ± 1 ppm	Horizontal: 5 mm ±1 ppm Vertical: 10 mm ±1 ppm	Horizontal: 5 mm ± 1 ppm Vertical: 10 mm ± 1 ppm

System configuration

- Operating system: Windows Mobile WEHH
- CPU: CORTEX A8, 1 GHz
- RAM: 512 MB
- ROM: 16 GB
- External Storage: Micro SD expansion slot, up to 32 GB
- Camera: 5.0 megapixel with autofocus

Display Screen

- Screen: High-Definition screen for field work, readable under sunlight, LED-Backlight
- Size: 4.3 inch
- Resolution: WVGA (480 X 800)

Communications

- Wi-Fi: 802.11 b/g/n
- Bluetooth: 2.1+EDR
- Cellular Mobile
  - Build-in 4G Modem (optional)
  - WCDMA 850/900/1900/2100
  - EDGE/GPRS/GSM 850/900/1800/1900

Physical

- Size (LxWxH): 236 x 97 x 77 mm (9.3 x 3.8 x 3.0 in)
- Weight: 897 g with battery (31.6 oz)
- Operating temperature: -30 °C to +70 °C (-22°F to 158°F)
- Storage temperature: -40 °C to +80°C (-40°F to 176°F)
- Dust proof and waterproof: IP67 standard
- Shock: survives a 1.5 meters / 4.9 feet drop on to concrete

Electrical

- Battery type: drawer type lithium battery
- Capacity: 11.1V, 2600 mAH (28.86 Wh)
- Battery life: up to 12 hours
- Charging time: 4 hours (typical)

Others

- Gyroscope
- Laser alignment
- Magnetometer
- Accelerometer
- High frequency RFID (optional)
- 1D and 2D bar code scanner (optional)

For further information please call or email us

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