

LT500 Series



KEY FEATURES

- *Multiple models covering from centimeter to sub-meter accuracy*
- *1 GHz high speed CPU, 512 MB RAM, 16 GB flash Memory*
- *4.3" large high-definition, sunlight readable screen*
- *3.5 G cellular modem*
- *Gyro, laser alignment, E-compass, G-sensor*
- *1D/2D barcode scanner, RFID versions available*

LT500 Series GNSS Handheld Receiver *Professional Surveying & Mapping Solutions*

The CHC LT500 series offers 3 different options to meet requirements of various applications with adoption of Windows® Embedded Handheld 6.5 operation system. Featuring outstanding specifications and cutting-edge technologies integrating with gyro, laser alignment e-compass, etc, the LT500 series makes your work more efficient.

LT500H L1/L2 GPS+GLONASS, L1 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 decimeter accuracy to meet your professional application demands in area of utilities, agriculture, forestry...

LT500N L1 GPS+GLONASS

Equipped with professional GPS engine, the LT500N 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 at least 10 hours in the field.

Realtime leveling and centering display

Built-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	LT500N
Channel	120	220	72
Satellite Signals	GPS: L1, L2; GLONASS: L1, L2; BeiDou: B1	GPS: L1; GLONASS: L1; BeiDou: B1	GPS: L1; GLONASS: L1
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 NMEA 0183
Cold Start	< 50 s	< 45 s	< 60 s
Hot Start	< 35 s	< 30 s	< 30 s
Reacquisition	< 1 s	< 2 s	< 1 s
Stand alone GPS	1.2 m	2 m	2.5 m
Realtime Correction	1 cm	25 cm	60 cm
With SBAS	50 cm	50 cm	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

- Windows® Embedded Handheld 6.5 operation system
- Processor: 1 GHz
- Memory:
 - 512 MB RAM and 16 GB internal flash memory
 - External Micro SD card slot, up to 32 GB
- 5.0 megapixel camera with autofocus

Display

- 4.3" sunlight readable screen
- Resolution: WVGA 480 X 800 pixel

Communications

- Cellular Modem
 - UMTS/HSPA+ 800/850/900/1900/2100 MHz
 - EDGE/GPRS/GSM 850/900/1800/1900 MHz
- Bluetooth: 2.1 +EDR
- WiFi: 802.11 b/g
- USB Port

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
- Shock: survives a 1.2-meter drop on to concrete

Electrical

- Liion battery capacity: 11.1V, 2600 mAh
- Battery life: > 10 hours (with Bluetooth and Wi-Fi on)
- Charging time: 4 hours (typical)

Sensors

- Gyroscope
- Laser alignment
- E-compass
- G-sensor
- RFID(optional)
- 1D and 2D bar code scanner(optional)

© 2014 Shanghai HuaCe Navigation Technology Ltd. All rights reserved. The Bluetooth® world mark and logos are owned by Bluetooth SIG, Inc. The CHC logo and CHC are trademarks of Shanghai HuaCe Navigation Technology Limited. All other trademarks are the property of their respective owners – Rev. May 2015

CHC - Shanghai HuaCe Navigation Technology Ltd.
599 Gaojing Road, Building C
201702 Shanghai, China

Tel : +86 21 542 60 273

Fax : +86 21 649 50 963

Email : sales@chcnv.com | www.chcnv.com