

LT500T L1 GNSS Handheld Receiver

¼ Meter (sub-foot) 1-Sigma Real-Time Repeatability
in a Rugged Windows® Embedded Handheld Package

6 Constellation L1 Tracking:

GPS + GLONASS + Galileo + BeiDou + QZSS + WAAS



Exceptional L1 GNSS Performance for successful mobile data collection

Internal full spectrum L1 GNSS Antenna

Windows Embedded Handheld 6.5 Professional Operating System

1,000 MHz TI Cortex-A8 Processor, 512 MB Ram, 16 GB Onboard Storage, up to 32 GB user uSD

Super-bright WVGA 480 x 800 pixel extended size 2.3" w x 3.68" h display

5 Megapixel, autofocus Camera

Internal GSM Modem, Wi-Fi, Class 2.1 Bluetooth®

Works with all NMEA compatible Windows Mobile software tools with dual COM port support

Available bundled with Carlson SurvCE, ESRI ArcPad

Rugged, Submersible, IP67; 2-year warranty

Detailed step-by-step 'iGage User Manual'

Reasonable deployment cost.

www.x9gps.com/lt500t



LT500T Specifications

Price (MSRP) ⁵	\$ 3,495 / Kit, includes 1 battery, charger, USB Download Cable, padded carry case ⁵ \$ 4,110 / kit with SurvCE GNSS \$ 4,195 / kit with ESRI ArcPad					
Accessories	Spare Battery (11.1V 2,600 mAh, 28.9 WH, Li-Ion) \$145 A110G L1 GNSS Antenna with cable \$550 External Antenna Cable (TNC to SMB) \$70 Matching data collector bracket: SECO 5200-058 \$72.29 ; Pole Bracket: SECO 5200-150 \$62.43					
GNSS Engine	Trimble BD-910					
GNSS Measurements	220 Channels, 6 constellations, 20-hz rate GPS: L1C/A Galileo: E1 GLONASS: L1C/A QZSS: L1 /C/A, L1 SAIF SBAS: WAAS, EGNOS, MSAS BeiDou: B1					
Maximum Operating Limits	1,152 Miles Per Hour (515 m / Second) Velocity; 59,050 feet (18,000 meters) Elevation					
SBAS	WAAS (USA)	Horz	30 cm (1-Sigma)	EGNOS (European)	Horz	50 cm
Real-Time Performance ¹		Vert	60 cm		Vert	1 meter
Differential	DGNSS	Horz	25 cm + 1 ppm (1-Sigma)	via cell or Wi-Fi NTRIP transport		
Real-Time Performance		Vert	50 cm + 1 ppm			
Initialization ⁴	Cold < 45 seconds, Warm < 30 seconds; Re-acquisition < 2 seconds					
Internal Antenna	Full L1 GNSS					
Protocols	RTCM 3.0, RTCM3.2 MSM, CMR, CMR+, sCMRx, RTCM 2.3 NMEA 0183: GGA, GSV, RMC, GLL, VTG, ZDA, GST, GRS, GSA, PJK, PJT (+ Raw Data)					
RTK Network	Compatible with NTRIP and DIP corrections delivered by Wi-Fi or GSM cellular connection.					
Communication	Wi-Fi 802.11 b/g; USB Port Integrated Bluetooth® Class 2.1 + EDR Integrated GSM/GPRS modem: EDGE/GPRS/GSM 850/900/1800/1900 MHz					
Processor & Memory	1,000 MHz TI Cortex-A8; 512 MB Ram; 16 GB internal Flash User/Program memory; external Mico-SD card slot (up to 32 GB)					
Display	Large 4.3" (2.3" w x 3.68" h) sunlight visible, WVGA 800 x 480 pixel color LCD display					
Operating System	Windows Embedded Handheld 6.5 Professional (5.2.29094)					
Internal Sensors	5 mega pixel Camera, Gyroscope, E-compass, G-sensor, Laser Plummet					
Battery ²	11.1 V 2.6 Ah field replaceable battery with charge status LEDs. Up to 13-hour life, 4-hour charge time.					
Physical	Size (LxWxH): 9.3 x 3.8 x 3.0 in (236 x 97 x 77 mm) Weight: 2 lbs. (897 g) with battery Operating temperature: -22°F to 158°F (-30°C to +65 °C) Storage temperature: -40°F to 176°F (-40°C to +80°C) Humidity: 100% condensation Waterproof and dust proof: IP67 protected from temporary 1-meter immersion, floats					
Data Collection Software	Any NMEA compatible Windows Mobile Software					
Warranty	2-year iGage warranty; 2-year CHC factory warranty; accessories 1-year; batteries 90-days					

¹ Precision and performance values assume a minimum of 9-satellites in multipath clear, EMI free, obstruction free environment with reasonable atmospheric conditions and satellite geometry. Network based solutions based on shortest actual baseline. Stable mounts and generally accepted survey practices are required for the highest order survey results.

² Battery life varies with temperature and battery age. Elevated and extreme cold working or storage temperatures (> 85°F, < -20°F) hasten capacity loss.

³ Assuming 14-tracked satellites.

⁴ Initialization times assume reasonable baseline, constellation and number of SV's in a multipath and obstruction clear environment.

⁵ Price includes 3-day Shipping to most USA address.

⁶ iGage provisions GAL on all devices sold by iGage, Galileo is an option and not enabled on devices sold by other vendors.

Prices, specifications and descriptions are subject to change without notice. Please call us for the latest information and a custom quotation.



The LT500T includes a heavy-duty soft carry case, a mini-USB to USB download cable, a stylus that fits in the receiver case, a hand strap, a single battery and a wall mount transformer for charging the LT500.