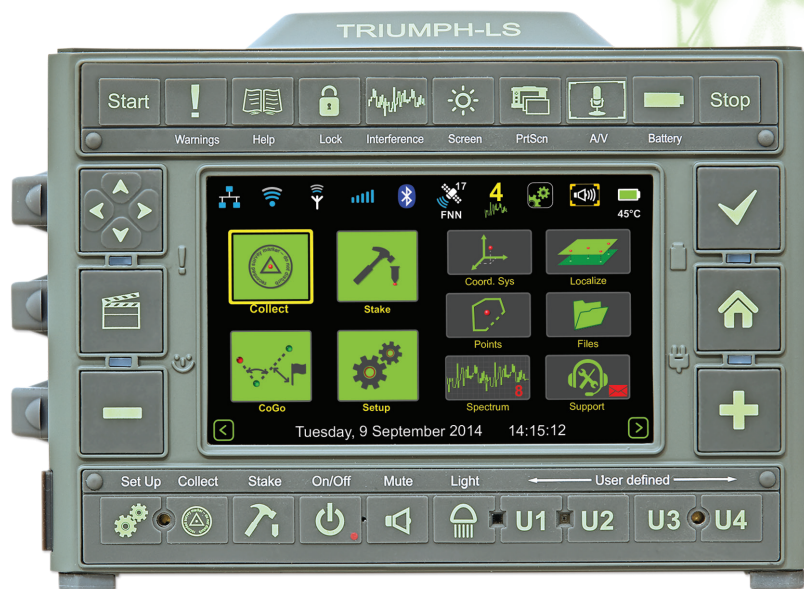




TRIUMPH-LS Plus

GNSS Smart Antenna



Key Features

- Multi-RTK Engine Reliability
- Integrated Field Computer
- Lift & Tilt Auto Point Record
- In-field RTPK Repeatability
- 25-hour battery life

With 4 parallel RTK engines for simultaneous computations, together with in-field RTPK, users have the assurance of accurate and repeatable positions, especially under foliage and difficult reception conditions.

Number of Channels	874	
GNSS Constellations	GPS GLONASS Galileo BeiDou QZSS SBAS IRNSS	L1 C/A, L1C (P+D), P1, P2, L2C (L+M), L5 (I+Q) L1 C/A, P1, P2, L2C, L3 (I+Q) E1 (B+C), E5A (I+Q), E5B (I+Q), AltBoc, E6 (B+C) B1, B1-2, B1C (P+D), B2, B3, B5A (I+Q), B5B (I+Q) L1 C/A, L1C (P+D), L2C (L+M), L5 (I+Q), SAIF, LEX (P+D) L1, L5 L5
Position Accuracy	Autonomous (Stand alone) SBAS DGPS RTK Static/Fast Static	<2.000m <1.000m <0.500m Horizontal: 0.004m + 1 ppm, Vertical: 0.007m + 1 ppm Horizontal: 0.003m + 0.1 ppm, Vertical: 0.004m + 0.4 ppm
Time for First Fix	Cold Start Hot Start Autonomous (Stand alone)	< 35 s < 1 s < 1 s
RTK Initialization Reliability	99,99%	
Cellular	4G LTE Mini Card	LTE, HSPA+, HSDPA, HSUPA, WCDMA, GSM, GPRS, EDGE LTE, EV-DO, 1xRTT CDMA
Radio	UHF ISM	Internal 406 – 470 MHz, 1 W 902 – 928 / 868 – 870 MHz, 1 W (Optional)
Communication	Wi-Fi Bluetooth Ethernet USB (2) Serial	IEEE 802.11 b/g/n/d/e V2.1 + EDR, Class 2 10BASE-T / 100BASE-TX Host & Device RS232, up to 406800 bps
I/O	1PPS, Event Marker GNSS Antenna Radio Antenna Cellular Antenna MicroSIM	7-Pin LEMO SMA SMA SMA 2 slots
Power	Input Battery Operation Time	10 – 30 VDC Li-Ion 85 Wh, Rechargeable 25-Hours per charge
Physical & Environmental	Material Operating Temperature Storage Temperature Humidity Vibration Dimensions Weight Ingress Protection	Molded magnesium alloy and plastic -40° C – +55° C -20° C – +45° C 100% Condensing MIL STD 810G & 810F Certification 183 x 124 x 106 mm (7.2 x 4.88 x 4.17 in) 2.1 kg (4.63 lbs) IP67

