

Introducing

TRIUMPH-LS

The ultimate **L**and **S**urvey machine

25 2.5

8640 864

Complete RTK Unit



The most channels

Rugged  Fully Integrated

The best performance and productivity

Interference protection and monitoring

Lightest weight in class  Best battery life

An unbelievable price

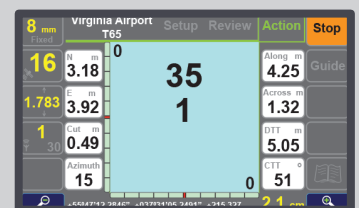
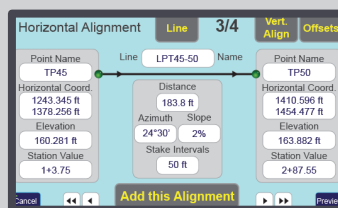
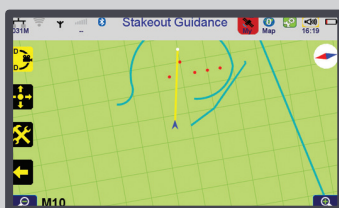
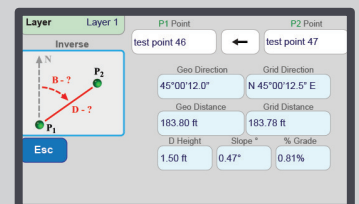
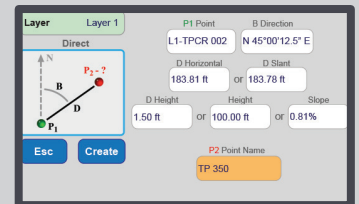
Store and Stake like never before

Stakeout Survey GIS

Introducing GUIDE data collection in the TRIUMPH-LS. Visual Stake-out, navigation, six parallel RTK engines, over 3,000 coordinate conversions, advanced CoGo features, rich attribute tagging on a high resolution, large, bright 800x480 pixel display.

Versatile attribute tagging, feature coding and automatic photo and voice documentation.

The TRIUMPH-LS automatically updates all firmware when connected to a Wi-Fi internet connection.



Productivity & Performance

864 Channels, All Satellite signals, 6-parallel RTK engines, Visual Stake out, innovative simple and accurate field line work.

✓
channels
864
~~440~~
~~220~~
~~216~~
~~76~~
~~12~~
~~4~~

JAVAD has always been the channel count leader with 12, 76, and 216 channel receivers and now we introduce the TRIUMPH-LS with 864 channels combined with three powerful processors and program memory in a single chip which uses less power and makes the total system less expensive.



Some questioned the need for the 216 channels. They now realize the need for 440 channels. We assign multiple channels to each satellite for redundancy and reliability. We use over 100 channels to scan GNSS bands for interference (patent pending). 864 channels is the KEY to reliable performance.

Our satellite tracking technology, 6-parallel RTK engines, visual stakeout, revolutionary innovative simple and accurate field line work, visual stakeout, an unique interference monitoring and reporting feature, TRIUMPH-LS is the most advanced GNSS system ever built.

*GPS+GLONASS+Galileo+SBAS+BeiDou+QZSS



Battery Life: 25 Hours; System Weight: 2.5 Kg (5.5 lb)



hours

25

~~10~~

~~8~~

~~6~~

~~4~~

~~2~~

25 hour battery life in RTK rover mode with full screen brightness and UHF/GSM. “Hot Swappable” and “removable batteries” are concepts of the past.

Two hours of charge = Two days of surveying

The internal batteries are field serviceable and can be easily replaced by the user when needed.

The TRIUMPH-LS, including batteries and pole is the lightest complete GNSS RTK receiver in its class. The total weight of the TRIUMPH-LS RTK system, including radio, controller, pole and 25 hours of internal battery is 2.5 Kg.

For comparison, the Trimble R10, TSC3 data collector and pole, with about 5 hours of battery life is 3.57 Kg (7.86 lb).

~~50 (110)~~

~~30 (66)~~

~~20 (44)~~

~~10 (22)~~

~~5 (11)~~

2.5 (5.5)

Kg (lb)



Serial port

Ethernet

Power



Headset

USB Host

USB OTG

TRIUMPH-LS

Rugged, Tough, Versatile

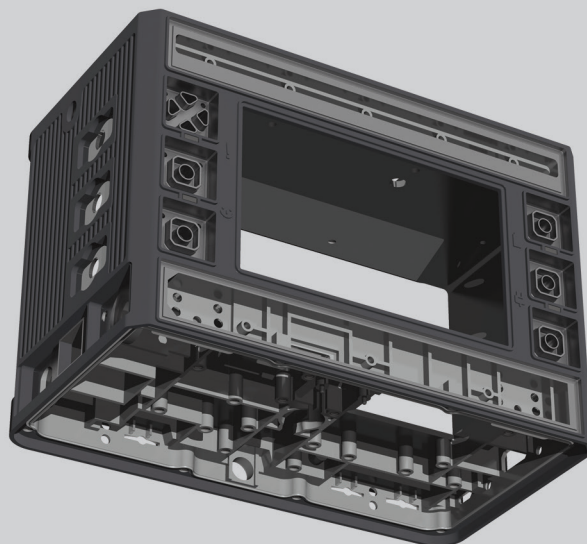


Built on a tough magnesium alloy chassis, all connectors, SIM cards, Micro-SD cards are protected against the harshest environment.

You can collapse the pole and take the unit next to you in your car seat. There are no long poles and no separate controller and brackets to disassemble.

9 keys provide direct access to all functions. Six keys are user programmable.

The built in GNSS full tracking antenna has a large ground plane and the best centering and rotational performance on the market.



\$ 8,640

complete RTK receiver system

Receiver+Antenna+Radio Modem+Controller+Pole

~~200,000~~

~~70,000~~

~~50,000~~

~~35,000~~

~~18,000~~

8,640

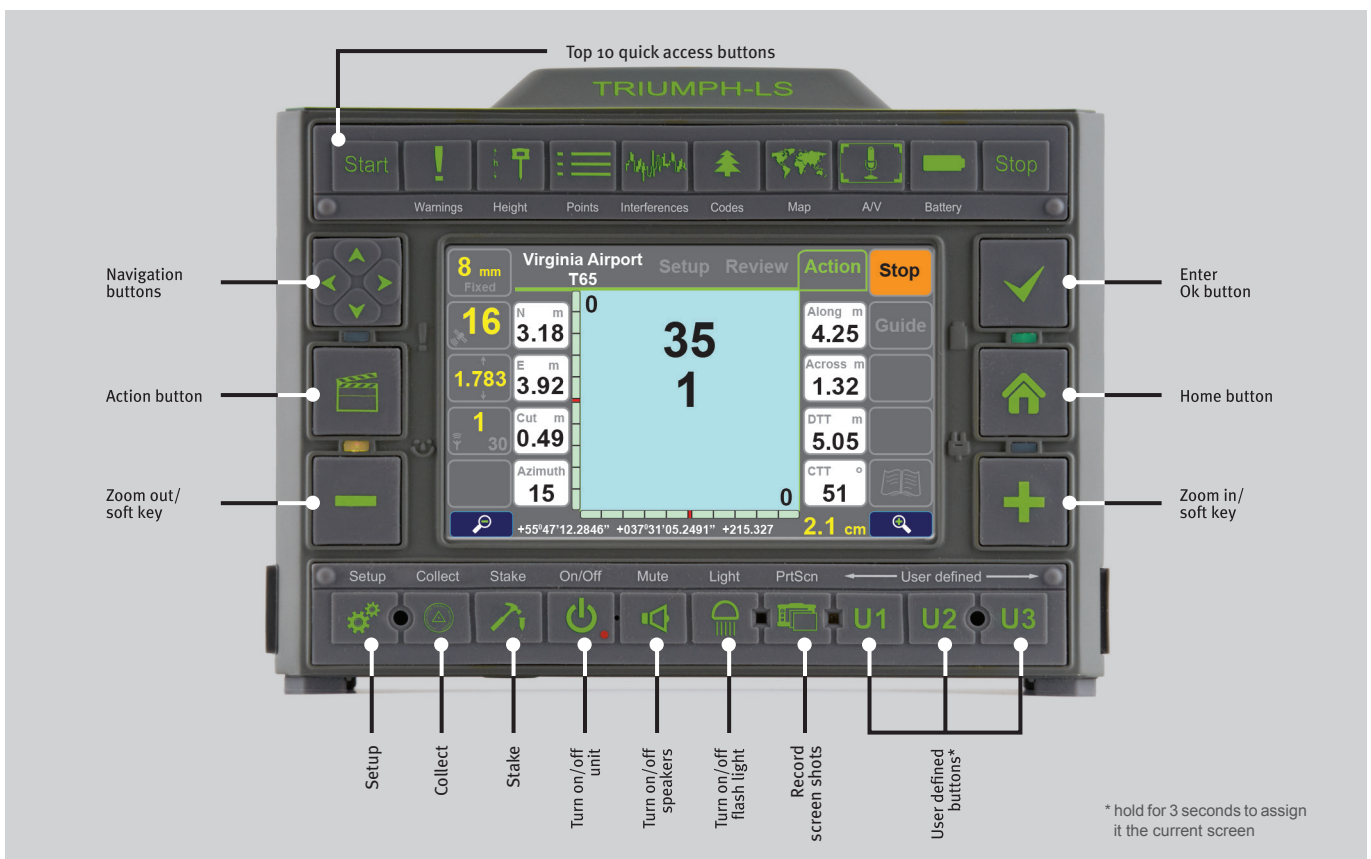
US \$



- Base or Rover
- GSM Modem
- UHF Transmit & Receive
- Lifetime Firmware & Software Updates
- 3-Year Unlimited Warranty

U.S. Professional Land Surveyors (registered PLS) can test drive the TRIUMPH-LS for two weeks at no charge (includes 2 Day FedEx delivery and return).

See www.javad.com to reserve one (for U.S. Licensed PLS only).

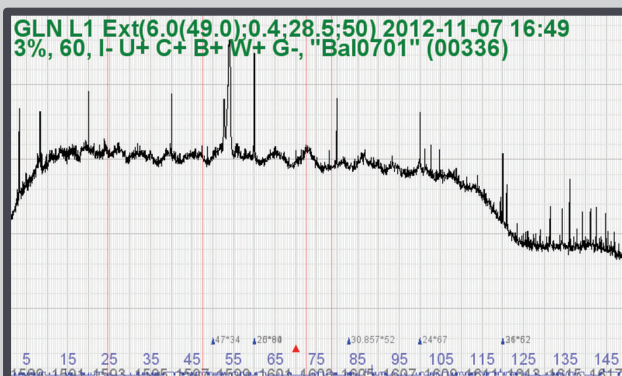


Interference Monitoring and Reporting

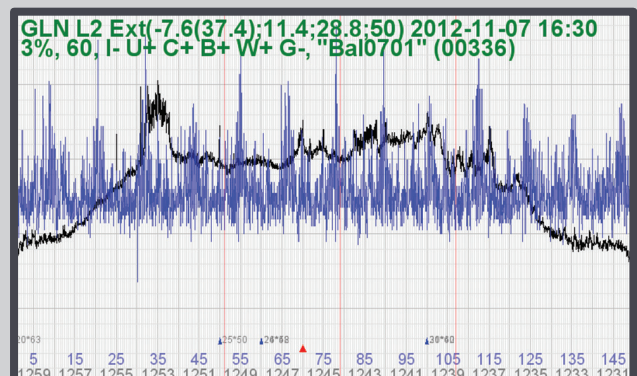
Radios
TV's
Radars
Harmonics
GSM
LTE
&
Jammers

Have you noticed in some places on some days that your receiver does not operate as it should? Intentional and unintentional interference appears almost everywhere. The Triumph-LS has the best available interference protection. It is the only receiver that monitors and reports interference graphically and numerically. Over 100 channels are dedicated to continuous interference monitoring.

Interference awareness is a must when performing GNSS work. It allows safe GNSS operation in a city, airport and military environment.



Some interference



Big interference

Offset Survey with Photogrammetry



Offsets can be calculated using the internal camera of the TRIUMPH-LS or with an external camera!

