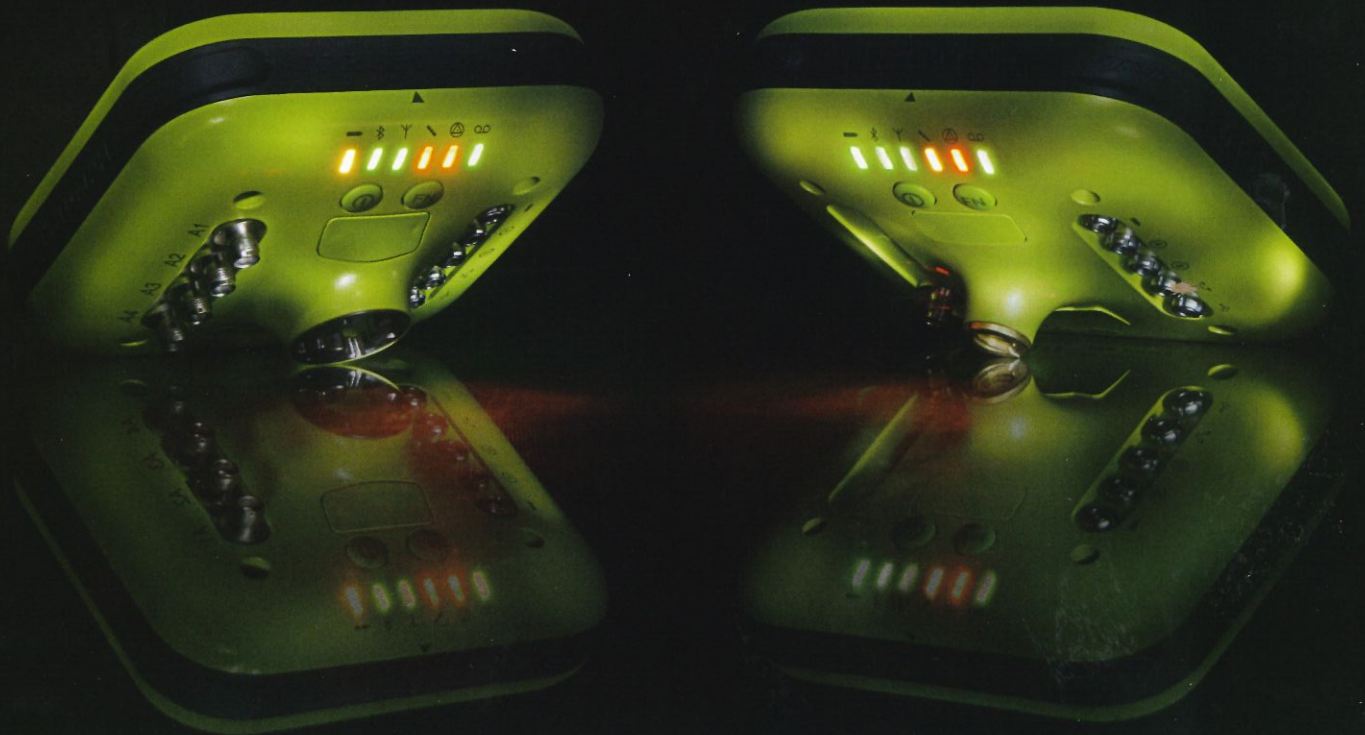




JAVAD
WWW.JAVAD.COM

TRIUMPH 1 TRIUMPH – 4X 216 channels

Software in focus



GPS + GLONASS + Galileo

TRIUMPH 1



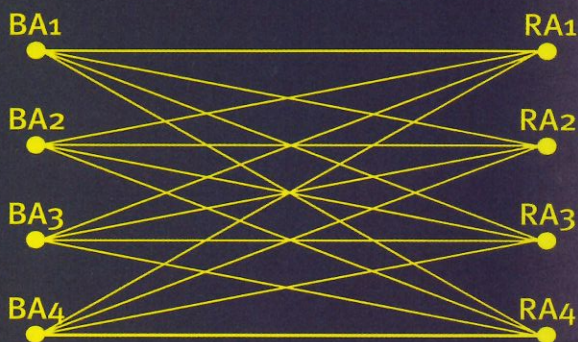
One base—one rover, one baseline

*RTK with TRIUMPH – 4x
is based on 16 baseline
calculations instead
of one. See details in
www.javad.com.*



4x4... ALL WILL DRIVE... RTK!

TRIUMPH-4x



4 base – 4 rover, 16 baselines

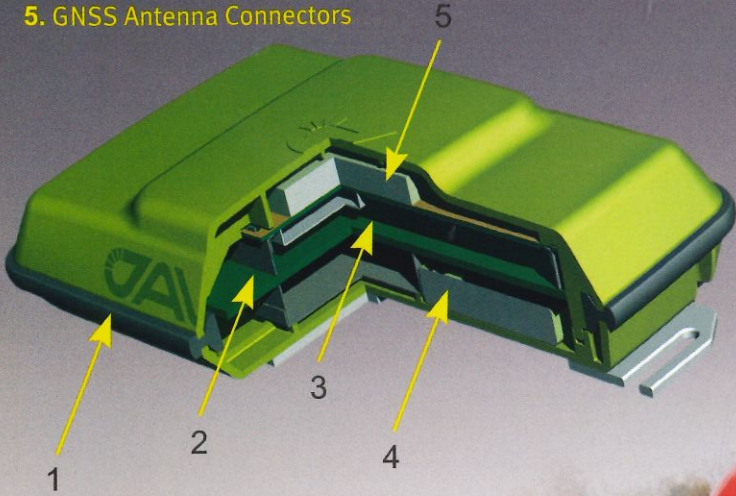


Please see www.javad.com for details

Actual size



- 1. Guard Bumper
- 2. Bluetooth/GSM Antenna
- 3. GNSS Receiver, Power Board, GSM/Bluetooth and Memory
- 4. Rechargeable li-Ion Battery
- 5. GNSS Antenna Connectors



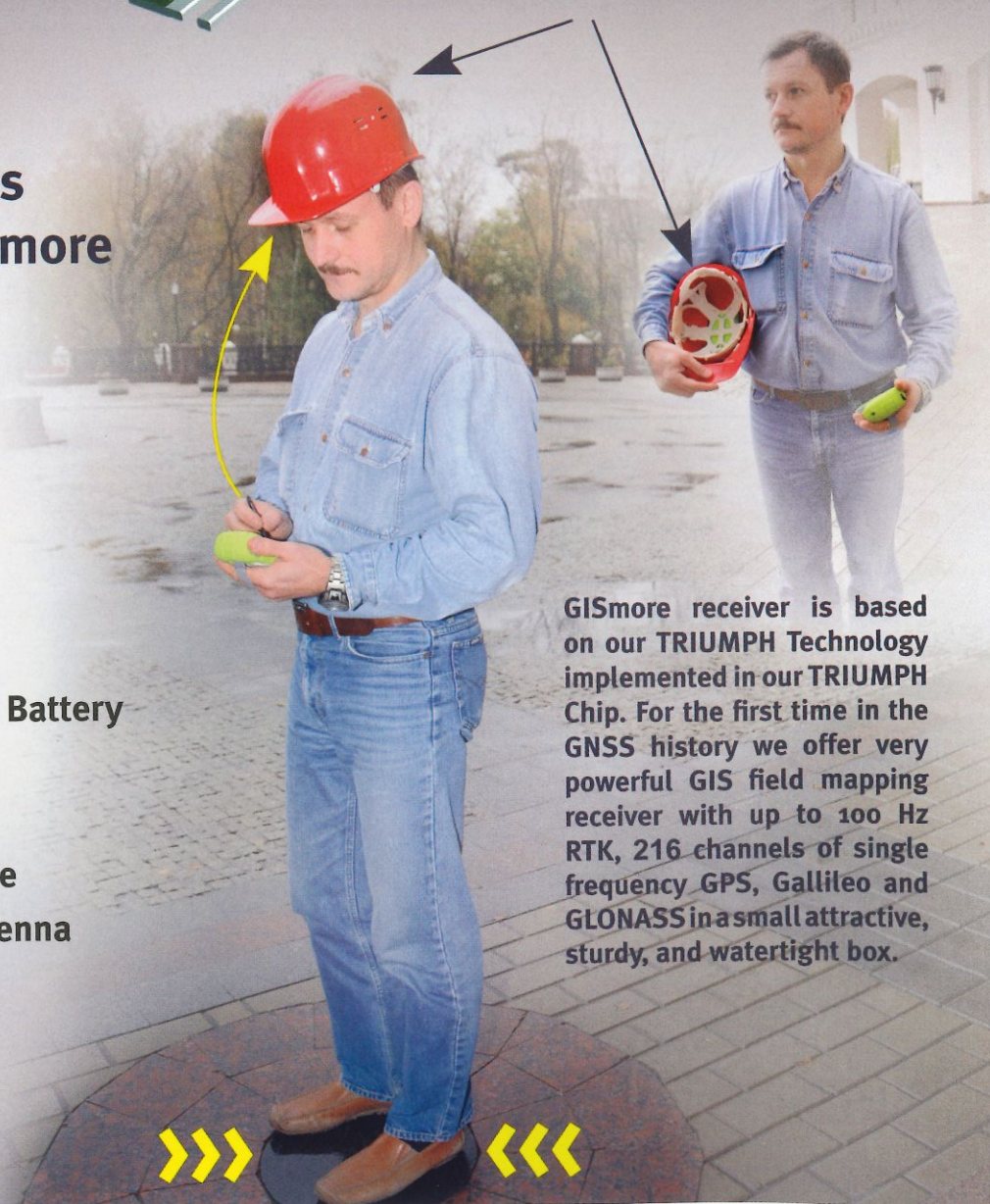
GISmore

stand-alone or
inside the hat

Bluetooth wireless connection to GISmore

- GPS L1
- Galileo E1
- GLONASS L1
- 100 Hz update rate
- 100 Hz update rate
- RAIM
- WAAS/EGNOS
- Rechargeable Li-Ion Battery
- GNSS Antenna
- GSM Module
- Bluetooth® Interface
- Bluetooth/GSM Antenna

Many
ways
to use



GISmore receiver is based on our TRIUMPH Technology implemented in our TRIUMPH Chip. For the first time in the GNSS history we offer very powerful GIS field mapping receiver with up to 100 Hz RTK, 216 channels of single frequency GPS, Galileo and GLONASS in a small attractive, sturdy, and watertight box.



Tracy field software

Tracy – as easy as 1-2-3

Software for Windows Mobile OS to control receivers, automated GNSS post processing surveying tasks (Static, Fast Static, Stop&Go, Data Acquisition), and to perform RTK survey and stakeout tasks.

- **All complex GNSS survey with Tracy by just 3 buttons on one screen**
- **Constantly monitor all hardware status** – green color means ok, red indicates a problem
- **National and local coordinate system and geoid support**
Horizontal and vertical localizations
- **Increased productivity and reliability**
- **Data acquisition with feature codes**
- **Built in COGO routines**

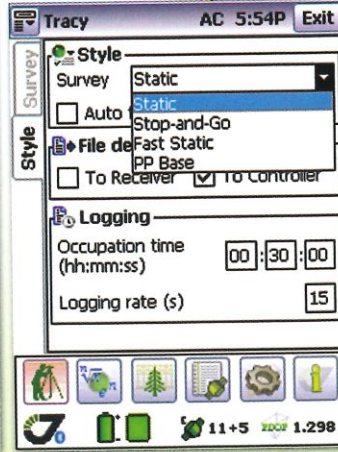
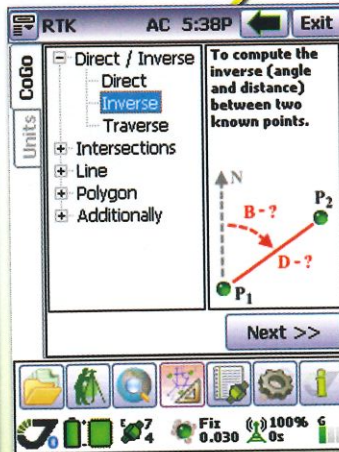
Victor

Victor is pre-loaded with our Tracy field software. When turned on, Victor automatically connects to TRIUMPH-1 or TRIUMPH-4X via its internal Bluetooth and guides you through field operations. It manages the GNSS receiver and modem operations automatically.

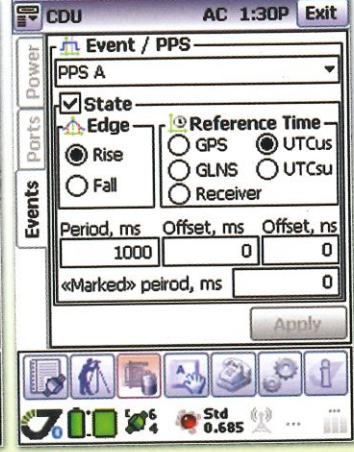
Victor is rugged, powerful, waterproof, shock-proof and versatile. It meets IP67 and Mil-Std-810F standards for drop, vibration, altitude, immersion, humidity, sand/dust, and operating temperature.



RTK (Real Time Kinematics) SURVEY AND STAKEOUT
Wide set of coordinate systems including local and user defined. Ability to use global, regional and user defined (with Tracy Tools) geoids



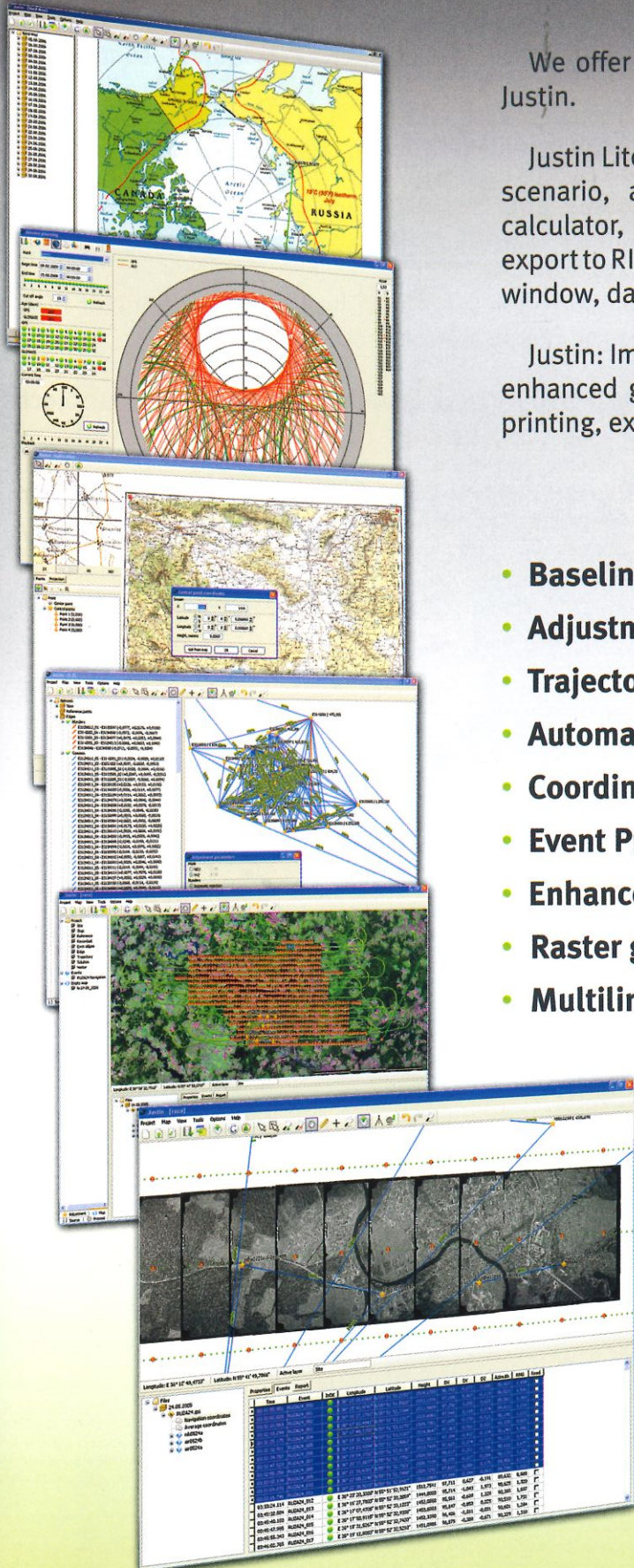
PPK MODULE
Data Collection for Post-Processing



CONTROL DEVICE UNIT
Advanced configuration and trouble-shooting directly in field

Justin survey and GIS software

Full range of features for geodetic and surveying tasks



We offer Justin software in two versions - Justin Lite and Justin.

Justin Lite: GPS&GLONASS baseline, trajectory processing, scenario, adjustment, observation manager, coordinates calculator, event editor, global geoid, mission planning, export to RINEX, points manager, vertical profile, cartographic window, data visualization, antennas, report.

Justin: Import GNSS data, virtual station, datum calculator, enhanced geoid model, vector maps, raster manager, map printing, export map, data analyser, data interpolation.

- **Baseline processing up to 1000 km**
- **Adjustment geodetic networks up to 3000 sites**
- **Trajectory adjustment for multibase solutions**
- **Automatic data processing with Scenario**
- **Coordinates, Datum, Localization calculator**
- **Event Processing for aerial photography**
- **Enhanced Geoid Model**
- **Raster georeferencing**
- **Multilingual**

Justin can import data files as well as whole folders. Justin employs a special techniques to process high rover data rates (up to 100 Hz) using low base data rates. Other features include single epoch static solution, manual postprocessing with time line chart, using vertical profile to filter out suspected data and scientific data analysis and viewer.

Giodis office post-processing software

High precision geodetic and surveying applications

New high-precision post-processing engine:

- Solves wide range of practical surveying tasks using advanced scientific approach
- Vector and session processing of zero-differenced GPS and GLONASS data
- Direct estimation of ionosphere, troposphere, and satellite/receiver clocks
- Estimates orbit relaxation parameters thus improving the accuracy of user surveyed points
- Global metadata to improve processing
- Uses ITRF control points to make processing more robust. Unattended and explicit downloading of IGS and CORS data for over 7000 worldly distributed stations
- Effective for both rapid static survey and calculating very long baselines (up to 2000 km)

Network adjustment module:

- Minimally constrained adjustment of GPS vectors and/or session subnets
- Fully constrained adjustment of 1D, 2D and 3D networks with vertical and/or horizontal control

Extended coordinate systems database:

- Extendable database with over 3000 global, national, and local coordinate system definitions, including transformation parameters and geoids
- Coordinate system calculator to transform horizontal positions and heights

Modern user interface:

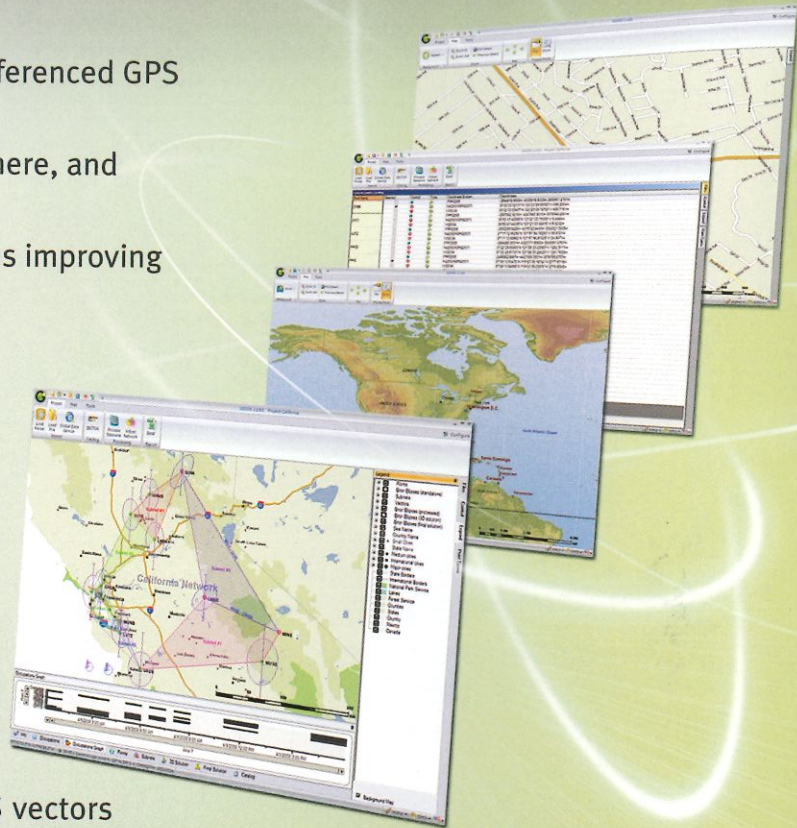
- Uploading and processing data with minimal interaction
- Advanced user can manage internal data flow by explicit request
- High-quality visualization, reporting, and printing

- **Catalogs** for storage and editing point datasets.

- **Projects and point catalogs can be encrypted** to protect business data.

- **Editable report generation** for all steps of working on a project.

- **Detailed background maps** covering the entire United States from the national level down to detailed street networks (TIGER data). World maps of any location on Earth with common geographic features.



JAVAD ArcPad Extension enhances the spectrum of ArcPad's surveying capabilities by adding state of the art JAVAD GNSS solutions. JAVAD ArcPad Extension provides a full range of functions to control the GNSS receiver and manage the surveying process.

JAVAD ArcPad Extension establishes a connection to the receiver via serial, USB, or Bluetooth.

Only three buttons are needed to control data logging, configure the base station parameters that govern the RTK and UHF radio setups, and GSM modem settings.

Quality control of real-time positioning results are assured in the field. The JAVAD GNSS Victor PDA displays the status/process progress continuously via the Bluetooth connection to the receiver.

Advanced RTK accuracy and ArcPad vector/raster map visualization capabilities deliver reliable object positioning and a new level of job control in the field.

JAVAD ArcPad Extension is an optimal ESRI-compatible solution for a wide variety of civil engineering or cartography tasks where centimeter level accuracies are required. At the core of this solution lies highly integrated JAVAD GNSS technology optimized for use with ESRI's GIS software.

