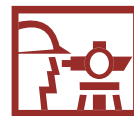


JANAK CATALOGUE

Enhancements &
Upgrades for JAVAD & FOIF

Theodolites | Total Stations | GNSS | CORS
2022



JANAK

-customers are our pride

**Professional
products for
maximum utility**

Electronic Theodolites - DT400 Series

DT-400 series digital theodolites features enhanced field of view, absolute encoders and laser plummet for user convenience.



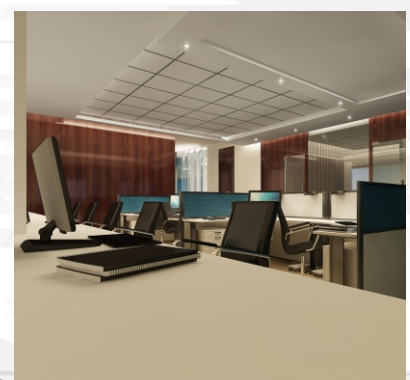
FOIF DT400 Series Theodolites are an indispensable tool for survey.

- **Absolute Encoder System** : Absolute encoders in DT400 series enables angles to save, even when switched off.
- **Wide LCD Display** : Compact design with wide LCD display facilitates numerical reading and operation.
- **Fine Minimum Reading** : 1"/5"/10" or 0.2mgon/1mgon/2mgon.
- **Repeated angle program** : Repeated angle program carries out continuous measuring and average calculating to get high-accuracy angle value.
- **Options for batteries** : Rechargeable battery and AA battery are available.
- **Low power consumption** : Longer working time with one battery.

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Electronic Total Stations - RTS100R Series

RTS100R features dual-axis compensator; IP 66 protection; alphanumeric keyboard; LCD display with 6 lines x 20 characters.



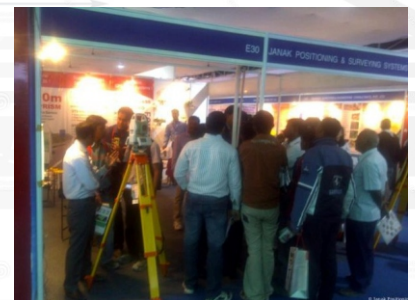
FOIF RTS100R Series Total Stations is the best survey tool available in the market today.

- **Long battery backup** : RTS100R series has a Lithium-ion battery that lasts 26 hours.
- **Optional Bluetooth** : RTS100R series have an option of bluetooth for data collector operation.
- **Huge internal memory** : 1,20,000 points and 40 jobs can be saved.
- **Rugged instrument** : RTS100R series offers IP66 water/dust protection.
- **Alphanumeric keyboard** : Alphanumeric keyboard offers quick operation in the field.
- **Long Reflectorless range** : Optional long reflectorless measuring ranges upto 1000 m, by default comes to 600 m.
- **Multiple interfaces** : Multiple data interface: mini-USB, RS-232C and SD card (upto 32GB) data transfer are available

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GNSS - A90

No need to level with the new FOIF A90 GNSS System. The new fusion of innovation of two different technologies : GNSS and Inertial Measurement Unit (IMU) gives a solution of every surveyor's dream - No need to hold the pole vertical to level the bubble of the instrument.



- **Canadian Novatel 555 Channels mainboard**

FOIF A90 features Novatel OEM729 mainboard which has 555 'All-in-view' GNSS channels.

- **Go for 'Tilt-and-move' with IMU support**

A90 has inertial measurement unit or IMU to give accurate coordinates while tilted, enabling the 'tilt-and-move' feature.

- **Indian IRNSS Supported**

A90 offers 'All-in-view' constellation with Indian IRNSS or NAVIQ supported.

- **Ultra-rugged controller**

A90 is bundled with ultra-rugged IP68 grade Android controller.

- **Variety of operating softwares**

A90 can work together with FOIF Survpad, FOIF FieldGenius or Carlson SurvCE. Use what you like!

- **Hot-swappable battery**

A90 features two batteries at the same time which are hot-swappable and with smart display of battery power.

- **Optional American 800+ Channels mainboard**

FOIF A90 features optional Hemisphere Phantom 40 board which has 800+ GNSS channels. P40 is Atlas® L-band capable means FOIF A90 can track Atlas to achieve 4 cm RMS accuracy without base anywhere in the world. Experience Unparalleled Accuracy and Reliability with Advanced Technology Features. Two Advanced technology features: aRTK™ and Tracer™. aRTK technology powered by Atlas, allows A90 to operate with RTK accuracies when RTK corrections fail. Tracer uses special algorithms to sustain positioning in the absence of correction data.

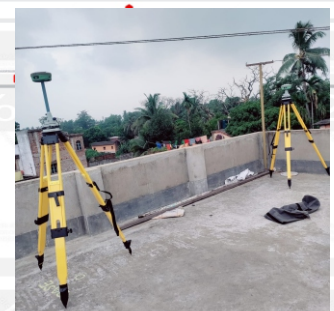
- **Wifi based WebUI**

A90 can be configured using inbuilt wifi and webUI.

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TRIUMPH 1M

The new TRIUMPH-1M receiver inherits the best features of our famous TRIUMPH-1. Based on our new 864 channel chip, equipped with the internal 4G/LTE/3G card, easy accessible microSD and microSIM cards, includes “Lift & Tilt” technology.



Main Features

- Total 864 All-In-View Channels
- GPS L1/L2/L2C/L5
- GLONASS L1/L2/L3
- Update Rate 10Hz
- RTK Rate 10Hz
- Ethernet
- Data Recording 16 GB
- RAIM
- Code Differential Base/Rover
- Advanced Multipath Reduction
- MinPad Interface
- Two RS232 Serial Ports (460.8 kbps)
- USB port
- Internal GNSS antenna
- Bluetooth® Interface
- Wi-Fi (IEEE 802.11b/g)
- KFK WAAS/EGNOS (SBAS)
- Integrated Inclometers
- Integrated Compass
- Lift & Tilt
- Rechargeable Li-Ion Battery

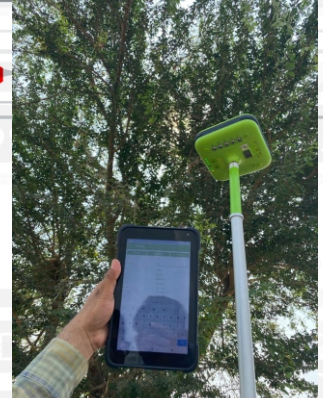
Optional Feature

- Galileo E1/E5A/E5B/AltBOC
- QSZZ
- BeiDou B1/B2
- IRNSS
- Update Rate 20Hz, 50Hz & 100Hz
- RTK Rate 20Hz, 50Hz & 100Hz
- Heading Determination
- GLONASS .2mm Dynamic Calibration
- In-Band Interference Rejection
- JAVAD ArcPad Extension
- 1 PPS timing strobe
- Event Marker
- Spectrum Data Output
- Javad Mobile Tools
- Spoofing Detection
- Jshield+
- 2 microSIM Card Slots
- Internal 4G LTE Mini Card
- Internal Radio Modem
- J-Shield
- External GNSS Antenna TNC Female connector

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TRIUMPH 3

The new powerful and reliable receiver for high-precision navigation systems is based on our 874 channel chip, equipped with the internal 4G/LTE/3G card, secure, accessible microSD and microSIM cards, and supports "Lift & Tilt" technology. The TRIUMPH-3 receiver can operate as a receiver for post-processing, as a Continuously Operating Reference Station (CORS) or portable base station for Real-time Kinematic (RTK) applications, and as a scientific station collecting information for individual studies, such as ionosphere monitoring and the like. In one word, it includes everything you need to perform the highly efficient job.



Custom Solutions

TRIUMPH-3 At The Core
TRIUMPH-3 At The Core

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Main Features

- UHF 1 W Transceiver
- 4G/LTE module
- Wi-Fi 5 GHz and 2.4 GHz (802.11 a, b, g, n, d, e, i)
- Dual-mode Bluetooth and Bluetooth LE
- Full-duplex 10BASE-T/100BASE-TX Ethernet port
- High Speed USB 2.0 Host (480 Mbps)
- High Speed USB 2.0 Device (480 Mbps)
- High Capacity microSD Card (microSDHC) up to 128GB Class 10;
- "Lift & Tilt"
- J-Mobile interface



TRIUMPH LS Plus

The odds of NOT getting an accurate position are negligible with TRIUMPH-LS Plus, which uses a patented multi-engine RTK technique that delivers reliable and repeatable positions. TRIUMPH-LS Plus runs 4 separate RTK engines in parallel, each using a different set of parameters for an independent solution. The system automatically compares the results to converge on a solution of higher quality based on the best measurements.



Receiver + Antenna Radio Modem + Controller + Pole

- Base or Rover
- 4G/LTE Cellular Modem (Americas/EMEA)
- UHF Transmit & Receive
- UHF 406-470 MHz Rx / Spread Spectrum 902-928 MHz Rx
- Lifetime Firmware & Software Updates
- 3-Year Warranty

Custom Solutions

Major Upgrade From the Original TRIUMPH-LS

- New TRIUMPH 3 ASIC
- Improved signal tracking and signal processing via wideband tracking
- Galileo and BeiDou L6 bands
- Improved multipath reduction
- Improved spectrum analysis to show and reject spoofers and jammers (option)
- Improved RTK with four "Super Engines"
- Improved internal Wi-Fi; no need for external antenna
- Improved internal Bluetooth antenna and longer range
- Lower power consumption and extended battery life

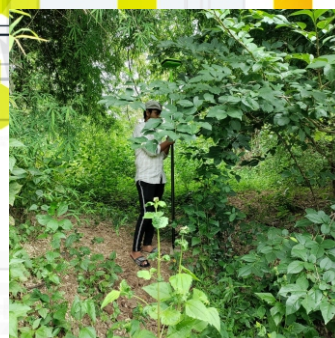
RTPK Introduced

Combine the strengths of RTK and PPK to get the best of both worlds. RTPK post-processes and verifies your RTK data in parallel and real-time.

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Delta Series

The DELTA is a multi-purpose GNSS receiver enclosure designed for multiple reference station and timing interfaces. The DELTA may be used as a Reference Station receiver to record data for post-processing, as a Continuously Operating Reference Station (CORS) via Ethernet, or as a Portable Base Station for Base / Rover RTK. The DELTA enclosure has models that provide options for all typical GNSS interfaces for full application flexibility.



**Multi-purpose
GNSS receiver**

**The Ultimate Reference
Stations Solutions From
JAVAD**

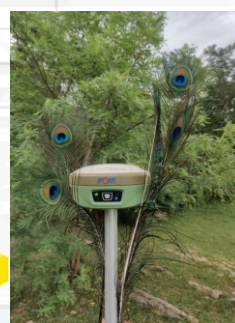
Key Features

- 874 Channels
- All GNSS Constellations
- Ethernet, USB & Serial Ports
- IRIG Time Codes
- External Frequency Input /Output
- CAN, 1PPS & Event Marker
- 64 GB Memory

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Sigma Series

SIGMA receiver is based on our TRIUMPH2/TRIUMPH Technology implemented in our TRIUMPH Chip. For the first time in the GNSS history we offer up to 100 Hz RTK. 864 channels of dual frequency GPS, Galileo, GLONASS, BeiDou, QZSS and IRNSS in a small attractive, sturdy, and watertight box, which contains either TRE-3N, or TRE-QUATTRO board. 216 channels chip is being utilized in SIGMA, which contains either Duo-G2, Duo-G2D, Duo-G3D, TRE-G2T, or Quattro-G3D board.



**The Ultimate Reference
Stations Solutions From
JAVAD**

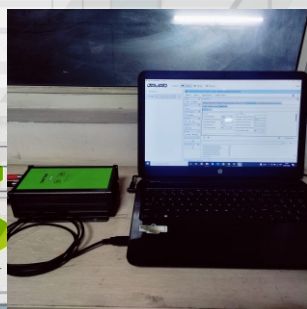
Features (*standard, *optional)

- SIGMA Receiver (0 MB)
- GPS L1/L2/L5
- GLONASS L1/L2
- Galileo E1/E5A
- 1 Hz update rate
- RAIM
- Li-Ion Battery Pack
- TriPad Interface
- External GNSS Antenna TNC Female connector
- RTK Rate 5Hz, 10Hz, 20Hz, 50Hz & 100Hz
- Data Recording up to 16GB
- Multi-Base Code Differential Rover
- Code Differential Base
- Advanced Multipath Reduction
- In-Band Interference Rejection
- Two Event Markers
- Galileo E5B/AltBOC/E6
- BeiDou B1/B2/B3
- QZSS L1/L2/L5/LEX
- SBAS L1/L5
- Update Rate 5Hz, 10Hz, 20Hz, 50Hz & 100Hz
- Two 1 PPS timing strobes
- Up to 2 CAN 2.0 ports
- External Reference Frequency input
- Up to 2 high Speed (460.8 kbps) RS232 Serial Ports
- Up to 2 High speed configurable RS/232RS422 serial port (up to 460.8 Kbps)
- USB port
- Ethernet
- Internal UHF Modem
- Internal cellular Module
- 2x External Power Inputs
- Mounting Bracket

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