FREYJA GNSS Receiver

Data Specifications

| DUUTION I GÖTEBORG AB Avägen 21, 436 34 ASKIM, m Supports multi-communication protocols: HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc. A For the second s | | | | |
|---|---|---|---|--|
| Build Handwig Build | | GNSS | | |
| CHCMNSS 11, L2, L21 Callon 31, L5, L25 Callon 12, L25< | | Signal Tracking ^① | | |
| Golden pf 1, f.S. (PS, PA) No. 4 C America in the Constant of | | с с | | |
| QSS (1, 1, 2, 1, 5, 16) Side (3, 1, 1, 3, 16) Protection (1, 1, 16) Protection (1, 1, 16) Protection (1, 1, 16) Protection (1, 16) Pro | | | | |
| Number (L): 5: PPR22-MPF Califies Ext-Alig. High-precision Static GMSS Surveysing. H2.2mm + G1 gpm RMS / Veltamm + D & gpm RMS. Market and Fast Static P2.5mm + G1 gpm RMS / Veltamm + D & gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D & gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D & gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D & gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D & gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D & gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G1 gpm RMS / Veltamm + D gpm RMS. Market and Fast Static H2.5mm + G2 gp | | | | |
| Processor Processor Processor | | | QZSS (L1, L2, L5, L6*) | |
| Processor Processor Processor | | | NavIC(L5) | |
| No. of Channels 1/02 CONTROL PREPORTANCE 1/2 Smm + 0.1 ppm fMS / V1.3 smm + 0.4 ppm fMS State and Fast State: 1/2 Smm + 0.1 ppm fMS / V1.3 smm + 0.4 ppm fMS Hom + 1 ppm fMS / V1.3 smm + 0.5 ppm fMS / V1.5 smm + 0.5 ppm fMS / V1.5 smm + 1.5 ppm | | | SBAS(L1, L2, L5) | |
| Performance Processing Kinematic Performance Perf | | | PPP(B2b-PPP, Galileo E6-HAS) | |
| High-precision static CNSS Surveying H2 Smit + 0.4 ppm RMS H2 Smit + 0.5 ppm RMS (V3 Smit + 0.4 ppm RMS) PMS / Smits A Gol H3 Smits and PMS / V15mm + 1 ppm RMS PMS / Smits A Gol H3 Smits and PMS / V15mm + 1 ppm RMS PMP Code Differential GMSS Positional Real Time Kinsmatic (RTK) H3 Smits Interrupt / V15mm + 1 ppm RMS H3 Smits and PMS / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS / V15mm + 1 ppm RMS H4 Smits Interrupt / V15mm + 1 ppm RMS / V15mm + 1 | | No. of Channels | 1408 | ╶╶╵/ / / / ♥ / / / / ♥ / / / ■ ∕ ┺━━━━ |
| Static and Fast Static Pot Processing Kinomatic (PK7 Sup & G.S.) Pot Pocessing Kinomatic Pot | | | | |
| Static and Fast Static Pot Processing Kinomatic (PK7 Sup & G.S.) Pot Pocessing Kinomatic Pot | | High-precision static GNSS Surveying | H:2.5mm + 0.1 ppm RMS / V:3.5mm + 0.4 ppm RMS | |
| Post Processing Kinematic (MY Krosp 650) Halomatic time: Typically 100 mic to ase and 5 mic for over Initialization reliability, Typically 990% PP7 Code Differential GNSS Positioning Real Time Kinematic (RTK) Halomatic Typically 990% Real Time Kinematic (RTK) Halomatic Typically 990% Prime Science Prime Science Prime Science Prim Sc | | | | |
| (PK/ Stop & GS) Pi Pi Code Differential GNSS Positioning Real Time Kinematic (RTK) Hallon 1/200m to fusion and 5 min for room finding stopped to account of the stopped | | Post Processing Kinematic | | |
| PP Code Differential GNSS Positioning Pierden Code Differential GNSS Positioning Pierden | | | | |
| PPP Gode Differential ONS Positioning H:10cm / V220m H:10cm / V220m Stars transforMS / V10.5m+1ppmRMS StaSS.0m8, U03mV StaSS.0m8, U03mV Bit Ministration (RTK) Real Time Kinematic (RTK) H:10cm / V220m Provide informatic (RTK) H:10cm / V220m Provide informati | | (,, | | |
| But no Kinematic (RTK) But Solar(0), 0.05m(0) But Solar(0), 0. | | PPP | | |
| Bear Time Kinematic (RTK) Bear Time Kinematic (RTK) Bear Time Tigen (RK) (Valument 1 per RK) Instalization including (Valument 1 per RK) Instalization Inst | | | | |
| Initialization time: Typically > 09 s ² Initialization time: Typically > 00 s ² Initialization t | | | SBAS:0.5m(H), 0.85m(V) | |
| Positioning rate Three to first Fix His Bits of 10Hz Three to first Fix His Bits The Survey Performance ¹ Cold starts: 451 Hot start: 450 I Signal re-acquisition: 2 s His Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less than Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less than Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less than Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less than Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less than Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less than Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less than Bits ² The Survey Performance ¹ Additional horizontal pole bit uncertainty typically less there all UHF Radio Hieraul UHF Radio Hieraul UHF Radio Hieraul UHF Radio Hieraul Difference Survey Performance ² Hieraul Difference Notice Bits ² Survey Performance ² Hieraul Difference Notice Bits ² Survey Performance ² Hieraul Difference Notice Bits ² Survey Performance ² Hieraul Difference Notice Bits ² Hieraul Difference Notice Bits ² Hieraul Difference Notice Bits ² Hieraul Difference Notice Bits ² Hieraul Difference Hieraul Differ | | Real Time Kinematic (RTK) | | |
| Positioning rate Time to first Fix | | | | |
| Time to first Fix Her, Her, Fix Her, Her, Fix Her, Her, Her, Her, Her, Her, Her, H | | | | |
| Hi-FKa ² H:EFKa ² H:EFKa ² H:EFKa ² Wi-FKa ² The Survey Performance ¹ Additional horostral pole-situ networkatiny tyrically less than a mem 4-07 mm / *tilt (0* - 40?) COMMUNICATION 1 x USB type C part; 1 x SMA antenna port VG Interface 1 - 207 mm / *tilt (0* - 40?) CommUNICATION 1 x USB type C part; 1 x SMA antenna port VG Interface 1 - 207 mm / *tilt (0* - 40?) UNICON LOCEDORGA Association VG Interface Herquinergy 240455, Supports RMU / WW adjustable VG Internal UHF Radio Transmitting power: DW/I / W/I WW adjustable VG Internal battery ¹ Internal battery ² Nu Now ELECTRICAL Internal battery ² Internal battery ² Internal battery ² Internal battery ² VG Ing ELECTRICAL Internal battery ² Internal battery ² Internal battery ² Internal battery ² VICA Dower bank(Supports V2 AB Type-C USB asternal charging) VG Ing 208 dignologic battery VICA Dower bank(Supports V2 AB Type-C USB asternal charging) VG Ing 1 20mm Adjustopic brokes data from temporary immersion to depth of 1 non (280) VG Ing | | | | |
| Titl Survey Performance* Additional horizontal pole-siti uncertainty typically less than Bmm +0.2 mm / 11 kg 0° - 60°. Ministry Non-totace With the pole of the pole | | | | |
| Brim +0.7 mm /*tilt (0* - 60*) COMMUNICATION VI Theraface Y Planter DUTION IGOTEBORG ANAMARY Magea 21, 43.83 AAXAMARY | | | | |
| COMUNECATION 1 × USB type C port: 1 × SMA antenna port Wight of the frace 1 × USB type C port: 1 × SMA antenna port Arren Bluetooth 2 / 2 / 1 ENC 2 / 3 GHt DUTON LOCTEDORGAN Arrenal UHF Radio Fraquency 240Hz, Supports 802.11 br/g/n Arrenal Bluetooth A / 2 / 2 / 1 ENC 2 / 3 GHt Mission L1, 435 34 ASKM Fraquency 410.470MH 1: Channel: 116 (16 sciable) Transmitting power: DSW / 1W / 2W adjustole Working Range: Transmitting power: DSW / 1W / 2W adjustole Working Range: Transmitting power: DSW / 1W / 2W adjustole Thermal DHF Radio Transmitting power: DSW / 1W / 2W adjustole Thermal Data Start Internal AzW / 6000 Ahl Ithium-ion recharges to external The Start Harral Battery ² Internal AzW / 6000 Ahl Ithium-ion recharges to external The Start Marking Range: Data Start Stabb.com.se HMSCAL Start Rover (UHF/Cellular); to 24 hours* Stabb.com.se HMSCAL Start Rover (UHF/Cellular); to 24 hours* China Weight 100% concorderaing Weight 100% concorderaing Marcenal Start Dimensions (W X H) 1 | | Tilt Survey Performance® | | |
| Wire intervent Frequency 24GHz, Supports 802.11b g/n A12.21-1EDR, 24GHz A2.21-1EDR, 24GHz Duttron I GÖTEBORGAB Naw Field Communication for device touch pairing Nore Frequency 24GHz, Supports 802.11b g/n A12.21-1EDR, 24GHz Naw Field Communication for device touch pairing Name Frequency 24GHz, Supports 802.11b g/n A12.21-1EDR, 24GHz Naw Field Communication for device touch pairing Name Frequency 24GHz, Supports 802.11b g/n A12.21-1EDR, A13.33 ASKM Name n Transmitting power 0.5W/11W/2W and supports 802.11b g/n yutaey Name a Office Name yutaey TRIMMAAR(III, TRANSEOT, SATEL-3AS, etc. yutaey Internal 7.2V / 6900mAh lithium-ion rechargeable battery YIK Kover (UHF/Cellulay: yuta 12AB Supports W 2.8A Type -C USB external charging) yutaey Dimensions (W x H) 122mmensions (W x H) 122mms/frm Qeration temperature -40°C to +00°C Yutaey 100% non-condensing) Yutaey Dimensions (W x H) Yutaey Dimension (W x H) Yutaey | | | | |
| Binetrooth 42/21-HEDR, 24GH2 Anter: Binetrooth Auger 21, 462, 42GH2 Surger 21, 43: 34 ASM, Vager 21, 43: 44 ASM, Vager 21, 43: 44 ASM, Vager 21, 45: 45: 45: 45: 45: 45: 45: 45: 45: 45: | | I/O Interface | | |
| NFC Near Field Communication for device to cuch pairing tarter: Internal UHF Radio Frequency, 104/00HL; ULTION IGGEBORG AB Working Range: Typically 3-Skm, outpinal 8 - ISkm warking Supports multi-communication for device to cuch pairing n Supports multi-communication for device to cuch pairing al Office: ELECTRICAL Internal Dattery ⁵⁰ Internal T.ZV / 690mAh lithium-inorectocks: HI-TARGET, TRIMTALKX505, TRIMMARK III, TRANSECT, SATEL-3AS, etc. w, Poland ELECTRICAL Internal battery ⁵⁰ Internal T.ZV / 690mAh lithium-inore chargeable battery TKR Rover (UHF/Cellular), up to 24 hours y, Turkey External power Jale, USA External power gene Charging using standard smartphone chargers or external charging) ware /dustproof IP67 dustproof, protected from temporary immersion to depth of 10m (32Bt) Water/dustproof IP67 dustproof, protected from temporary immersion to depth of 10m (32Bt) Water/dustproof IP67 dustproof, protected from temporary immersion to depth of 10m (32Bt) Water/dustproof IP67 dustproof, protected from temporary immersion to depth of 10m (32Bt) Yorage BSB ROM internal storage Water/dustproof IP67 dustproof, Rines Network Mode VSS, FKP, MAC; supports NTRIP protocol Real Time Kinematic (RTK). | | WiFi | | |
| NFC Internal UHF Radio Internal UHF Radio Internal UHF Radio Transmitting power: 0.5V/1W/2W adjustable Transmitting power: 0.5V/1W/2W adjustable Working Rame: Typically 3-Skm, optimal 3-15km Supports multi-communication procesols: HI-TARGET, TRIMTALK4505, TRIMMARK III, TRANSEOT, SATEL-3AS, etc. N, Poland Jorden Jorden Jorden Seech Republic N, Technal Dattery ⁵ Internal DATE Typical Transmitting power Jorden Seech Republic N, Transmitting power Charging:using standard smartphone chargers or external power Dover banks (Support SV 2.8A Type C USB external charging) Jorden Storage temperature 30 (Tocs Valae Weight Jorden Storage temperature 30 (Toc +70C Storage temperature Storage temperature 30 (Toc +70C Storage temperature Storage temperature Storage temperature Storage temperature Storage temperature Storage temperature Storage Storage Storage Storage Storage Storage | | Bluetooth | | |
| DLUTION I GÖTEBORG AB Transmitting power: 0.5W / 1W / 2W adjustable Wagen 21, 436 34 ASKIM, n Working Range: Typically 3-Skm, optimal B-15km n Supports multi-communication protocols: HI-TARGET. al Offices: Internal Dattery ^S n TRIMTALK480G, TRIMMARKIII, TRANSEOT, SATEL-3AS, etc. y, Turkey Internal 7.2V / 6900mAh lithium: rechargeable battery TRIM FALK480G, TRIMMARKIII, TRANSEOT, SATEL-3AS, etc. Internal 7.2V / 6900mAh lithium: rechargeable battery Sing, China External power Chargingusing standard smartphone charges or external charging) Song, China PHYSICAL Supports V2.8A Type-C USB external charging) Wa Weight < 0.8kg(includes battery) | GEOSOLUTIONS | | | |
| Wagen 21, 436 34 ASKIM, Supports multi-communication protocols: HLTARGET, TRIMTALK4505, TRIMMARK III, TRANSCET, SATEL-3AS, etc. N, Poland Internal battery ¹⁶ Internal battery ¹⁶ Internal battery ¹⁶ ELECTRICAL Internal Dattery ¹⁶ Internal Dattery ¹⁶ External power Charging:using standard smartphone chargers or external power banks.(Support SV 2.8A Type-C USB external charging) power banks.(Support SV 2.8A Type-C USB external charging) Water/dustproof Humidity Storage temperature00 C to +70 C Storage temperature00 C to +70 C Storage & BGB ROM internal storage Output format ASCII: NMEA-0103 Storage & BGB ROM internal storage Output format ASCII: NMEA-0103 Storage & Storage Model and ASCII: NMEA-0103 Storage & Storage Model and ASCII: NMEA-0103 Storage Model to standard without notice. The Ascent the storage and the tationate attended the storage attended | uarters: | Internal UHF Radio | | |
| Supports multi-communication protocols: HI-TARGET, TRIMTALK4505, TRIMMARK III, TRANSEOT, SATEL-3AS, etc. NPoland LECTRICAL Internal battery ³⁵ Internal 7.2V / 690mAh lichtum-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* State of the state of the sta | OLUTION I GÖTEBORG AB | | ÷. | |
| addiffee: TRIMTALK4505, TRIMMARK III, TRANSEOT, SATEL-3AS, etc. w, Poland ELECTRICAL Internal battery ²³ Internal 7.2V / 6900mAh lithium-ion rechargeable battery p, Turkey External power p, Turkey External power power banks (Support 5V 2.8A Type-C USB external charging) power PHYSICAL VA Weight < 0.8kg(includes battery) | Åvägen 21, 436 34 ASKIM, | | | |
| al Office: TRIMTALK4505, TRIMMARK III, TRANSEOT, SATEL-3AS, etc. w, Poland LECTRICAL Internal battery ³⁰ Internal 7.2V / 6900mAh lithium-ion rechargeable battery y, Turkey RTK Rover (UHF/Cellular): up 0 24 hours* dale, USA External power charginguusing standard smartphone chargers or external power banks.(Support 5V 2.8A Type-C USB external charging) fore PHYSICAL VAE Weight \$ 0.8kg(includes battery) Dimensions (W x H) 132mmx6/mm Operation temperature -30C to +70C Storage temperature -40C to +80 C Humidity 100% non-condensing Water/dustproof IPG7 dustproof, protected from temporary immersion to depth of 10m (3.28ti) Free fail Designed to survive a 2m(6.56tf) natural fail onto concrete CONTROL PANEL LED Lamp LED Lamp Satellite, Signal, Power Physical button 1 Storage toff format GNS, Rinex Network Mode VFS, FKP, MAC; supports NTRIP protocol Real Time Kinematic (RTK) CMR, RTCM 2.x, RTCM 3.x **utoware independent works from a thouse the staffetta dust generestate for more indematant Outpu | en | | | |
| w, Poland ELECTRICAL Internal battery® Internal 7.2V / 6900mAh lithium-ion rechargeable battery FTK Rover (UHF/Cellular): up to 24 hours* RTK Rover (UHF/Cellular): up to 24 hours* Jaile, USA External power pore power banks (Support 5V 2.8A Type-C USB external charging) pore PHYSICAL UAE Weight ≤ 0.8kg(includes battery) Dimensions (W x H) 132mm x67mm Operation temperature -30 C to +70 C Storage temperature -30 C to +70 C Humidity 100% non-condensing Water/dustproof IP67 dustproof, protected from temporary immersion to depth of 1 0n (3.20th) Free fall Designed to survive a 2m(6.56th) natural fall onto concrete CONTROL PANEL CONTROL PANEL ED Lamp Storage 8GB ROM internal storage Output farmat ASCI: NMEA-0183 Static data format GNS, Rinex Network Mode VRS, FLP, MAC; supports NTRIP protocol Real Time Kinematic (RTK) CMR, RTCM 3.x | | | TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc. | |
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| Jaile, USA power banks.(Support SV 2.8A Type-C USB external charging) pore PHYSICAL Kong, China Weight UAE Weight Satlab.com.se Operation temperature Satlab.com.se Storage temperature Humidity 100% non-condensing Water/dustproof IP67 dustproof, protected from temporary immersion to depth of 1.0m condensing Water/dustproof IP67 dustproof, protected from temporary immersion to depth of 1.0m condensing Physical button 1 Storage 8GB ROM internal storage Output rate 1Hz-20Hz Output rate 1Hz-20Hz Output rate 1Hz-20Hz Output rate QNS, Rinex Network Mode VRS, FKP, MAC; supports NTRIP protocol Real Time Kinematic (RTK) Xotage method by Itmeas used by informat question inducting the age, number of statilize, generative databative, deverative databative | | | | |
| Kong, China UAE PHYSICAL Weight ≤ 0.8kg(includes battery) Dimensions (W x H) 132mmx67mm Operation temperature -30 C to +70 C satlab.com.se Storage temperature -40 C to +80 C Humidity 100% non-condensing Water/dustproof IP67 dustproof, protected from temporary immersion to depth of 1.0m (3.298t) Free fail Designed to survive a 2m(6.56ft) natural fail onto concrete CONTROL PANEL LED Lamp Storage 8GB ROM internal storage Output rate 1Hz-20Hz Output rate ASCII: NMEA-0183 Static data format GNS, Rinex Network Mode VRS, FKP, MCM 3.x *Description and Specifications are subject to change without notice. 1225 Los ne persion, reliable and instand and ascillate, geometric databas on four, strangephase conditions and multipath. *Description and Specifications are subject to change without notice. 1225 Los ne persion, reliables and instand formating through and ascillate, geometric databaset on the strangephase conditions and multipath. *Description and Specifications are subject to change without notice. 1225 Los ne persion, reliables and instander on the strangephase conditions data multipath. 125 Los ne | , Turkey | External power | Charging:using standard smartphone chargers or external | |
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SatLab Freyja GNSS RTK is a progressive receiver that creates a new RTK experience for land surveyors. With its comprehensive features, it can perfectly handle the situations encountered in all kinds of surveying work, minimizing the burden from the physicality and extending the functionality of fieldwork. By increasing productivity by 25%, Freyja offers an accurate and efficient solution.

Key Features



Engine













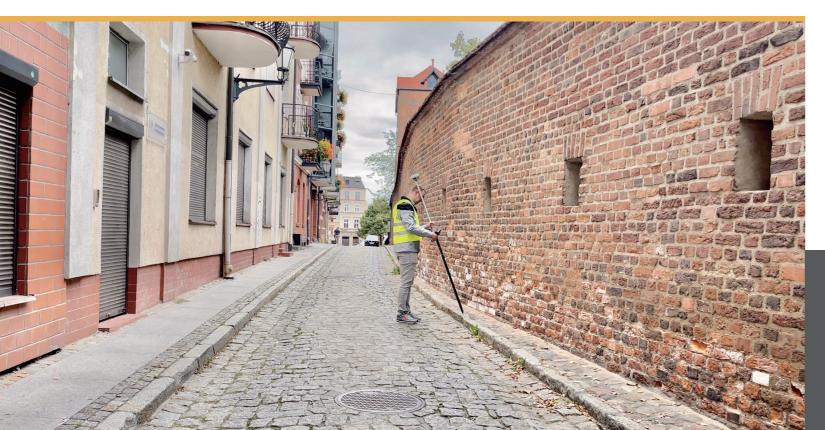


(> 24 hours

Compatibility with third-party software

Applications

- Monitoring
- Land Survey
- Agriculture
- Mapping
- Landfill
- Sensor
- Topography and As-built
- Hydrographic
- UAV Base Station



Handiness and Convenience

Refinement of design makes it rugged and compact with only 770g. A more durable battery ensures operating time reaches more than 24 hours. Durability and portability are optimized for surveyors who carry them around a lot in the fieldwork.

Accuracy and Precision

Matured RTK technology promises positioning reliability. New GNSS Antenna, full-constellation and all satellite signal tracking technology lay the solid foundation-precision of fieldwork.

Adaptability and Stability

Equipped with the latest tilt compensation algorithm and built-in high-performance 9-axis Inertial Measurement Unit (IMU), the measurement for hard-to-reach points is simple but precise with the high-performance tilt survey. Quality results are guaranteed even if you lose the signal while under extreme circumstances with great anti-interference ability.





Unlock your positioning mobility with Freyja



TECHNICAL SUPPORT Satlab offers online resources and a professional support network available worldwide.