

A30 GNSS Receiver



- Professional GNSS Satellite tracking(GPS,Glonass,Galileo,Beidou...)
- Equipped with industry standard GNSS engine (Trimble, NovAtel...)
- Voice messages
- OLED display with superior brightness & temperature range
- Base and rover communication options to suit any application
- FOIF PRS (Portable Reference System) technology, compatible with other brands GNSS products
- 3.5G WWAN (HSDPA/WCDMA/EDGE...) module option
- When the pole is tilted in ± 30 degree, the A30 still could get the right point data by automatic correct system
- Automatic data collection during centering

A30 GNSS Receiver Specifications

GNSS

- 220 channels
- 120 channels (Optional)
- 372 channels (Optional)
- Fully independent code and phase measurements
- Advanced multipath mitigation
- Update rate: 1,2,5,10,20 Hz Selectable
- GPS: L1 C/A,L2E,L2C,L5
- GLONASS: L1 C/A,L1PL2 C/A,L2P
- SBAS(WAAS/EGNOS/MSAS): L1 C/A,L5
- GIOVE-A:L1 BOC,E5A,E5B,E5AltBOC
- GIOVE-B: L1 CBOC,E5A,E5B,E5AltBOC
- GALILEO: L1 CBOC,E5A,E5B,E5AltBOC (Reserved)
- Beidou: B1,B2
- **Real-Time Accuracy (rms)**^{*1}
- SBAS (WAAS/EGNOS/MSAS)
- Horizontal: <3 m (10 ft)
- Real-Time DGPS position
- 25 cm (0.82 ft)+ 1ppm (rms) in typical condition
- Real-Time Kinematic Position (fine mode)
- Horizontal 8 mm (0.033 ft) + 1.0 ppm
- Vertical 15 mm (0.065 ft) + 1.0 ppm
- Real-Time Performance & Stop and Go solution**
- Instant-RTK Initialization
- Typically <10 s (Initialization for baselines < 20 km)
- 99.9% reliability
- RTK Initialization range >40 km
- Post Processing Accuracy (rms)**^{*2}
- Static,
- Horizontal 3 mm (0.009 ft) + 0.1 ppm
- Vertical 3.5 mm (0.016 ft) + 0.4 ppm
- Pos Cinematic Processing**
- Horizontal 10 mm (0.009 ft) + 0.1 ppm
- Vertical 20 mm (0.011 ft) + 1 ppm

Solutions

Field Software Suite

FOIF Survey ,FOIF FieldGenius or Carlson SurvCE

Main functions include:

- A30 GNSS Support: configuration, monitoring and control
- Volume computation Background
- raster image Network connectivity
- Coordinate System Support: predefined grid systems, predefined datums, projections, Geoids, local grid
- Map view with colored lines Geodetic
- Geometry: intersection, azimuth/distance, offsetting, poly-line, curve, area
- Road Construction(3D)
- Survey Utilities: calculator, RW5 file viewing
- Data import/Export: DXF, SHP, RW5

Data logging

- Recording Interval 0.1-999 seconds

Physical

- Unit Size: 20x11 cm(φx H)
- Weight (Rover) 1.3kg
- (W/O battery) 1.5kg (With battery)

Monitoring Screen

- Graphical OLED display: 4 lines X 16 characters

Memory

- Internal memory: 4G
- Up to 400 hours of 15 sec. raw GNSS data from 18 satellites

I/O Interface

- RS232X2, Bluetooth
- USBX1
- Ext Event Port (Optional)

Tilt survey sensor (Optional)

- Automatic correct system by 30degree

Data Format

- RTCM 2.x RTCM
- 3.x CMR,
- CMR+
- NMEA 0183 2.x ,3.0 and 4.1 (optional) RTCA (Optional)

Operation

- RTK rover/base, post-processing RTK
- Network rover: VRS, FKP, MAC
- Point-to-Point GPRS through Real-time Data Server Software (internal GPRS or external cell phone)
- LandXML(FOIF FieldGenius support) Total Station support (FOIF FieldGenius)
- Import and stake directly from a DXF File (FOIF FieldGenius)

Office Software Suite:

FOIF Geomatics office

- Main functions include: Network
- post-processing
 - Integrated transformation and grid system computations
 - Pre-defined datums along with use -defined capabilities
 - Survey mission planning
 - Automatic vector processing Least-squares network adjustment
 - Data analysis and quality control tools
 - Coordinate transformations
 - Reporting
 - Exporting
 - Geoid

Environmental

- Operating temperature: -30°C to +65°C (-22°F to 149°F)
- Storage temperature: -40°C to +75°C (-40°F to +167°F)
- Humidity: 100% condensing
- Waterproof: IP67(IEC60529)
- Shock: 2 m (6.56 ft) pole drop
- Power**
- Battery: BT91L Li-ion & life time: 5.8Ah(>13hrs) (UHF rover at 20°C)
- External power supply 7~18 VDC input
- Battery Charger kit FOIF FDQ7

Optional System Components

- Communication Module Internal radio
- Satel UHF-Link(403-473MHz) Rx&Tx both
- UHF-Link(390-430MHz/430-450MHz/450-470MHz) Rx only
- External radio/Power Amplifier
- FOIF external radio Rx & Tx(FDL-5, 2/35W selectable)
- Pacific Crest radio(390-430MHz/430-470MHz)Optional
- FOIF Power Amplifier (FDL-3 25W)
- GSM/GPRS/EDGE (class 10) Quad-band
- GSM/GPRS: 850/900/1800/1900MHz band
- CDMA(Optional)

Controller

- F52G/ - F55 / - S10

External Radio

- FDL1 / FDL5
- channels: 16
- Power: 2w/35w
- Display: Digital
- Water and Dust Protection: IP67
- Weight 1.4 kg

*1 Performance values assume minimum of five satellites, following the procedures recommended in the product manual. High-multipath areas, high PDOP values and periods of severe atmospheric conditions may degrade performance.
*2 Long baselines, long occupations, precise ephemeris used.

FOIF Geomatics CAD

Main functions include:

- DWG file format, compatible with AutoCAD
- Integrated transformation and grid system computations
- Full 3D least squares adjustment, blunder detection, graphical ellipse display
- DTM contouring/Modeling volumes/3D rendering
- Site Design: Ponds, ditches, stockpiles and slopes Road
- Design: horizontal and vertical alignments, cross sectional templates
- Completely customizable user interface
- Toolbars - can be arranged with "drag and drop" functionality
- Menus - can be re-organized with our graphical menu editor
- Screen - items can be turned off for more graphics area
- Layout - of command window - top or bottom Reporting,
- exporting and printing

Related Products



A50 Receiver



A20 Receiver



A3 Static Receiver



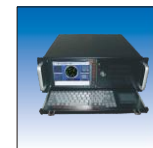
F60 Receiver



F55 GNSS/GIS Handhelder



A100 Reference Receiver



A200 CORS Receiver

Illustrations, descriptions and technical specifications are not binding and may change

FOIF

Since 1958

It's professional

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Local Dealer: