FOIF

- 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(optional)

- Automatic data collection during centering

A30 GNSS Receiver Specifications

GNSS Engine
- Trimble BD970 (220 channels)
  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,L1P,L2 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 (Reserved)
- NovAtel OEM628 (Optional): 120 channels

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 10 mm (0.033 ft) + 1.0 ppm
  Vertical 15 mm (0.045 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, Rapid Static
- Horizontal 5 mm (0.016 ft) + 0.5 ppm
- Vertical 10 mm (0.033 ft) + 0.5 ppm
  Long Static
- Horizontal 3 mm (0.009 ft) + 0.5 ppm
- Vertical 4 mm (0.012 ft) + 0.5 ppm

Solutions

Field Software Suite
        FOIF Survey or FOIF FieldGenius
  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
- Size
  Unit: 20x11 cm(Φ x 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
- 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℃ to +65℃(-22F to 149F)
- Storage temperature:
  -40℃ to +75℃(-40F to +167F)
- 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℃)
- 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 Amplifer
  -FOIF external radio Rx & Tx(FDL-1, 2/35W selectable)
  -Pacific Crest radio(390-430MHz/430-470MHz)Optional
  -FOIF Power Amplifer (FDL-3 25W)
- GSM/GPRS/EDGE (class 10)
  Quad-band
  -GSM/GPRS: 850/900/1800/1900MHz band
  CDMA(Optional)
- Controller
  -PS236, PS236 with 3G function (Optional)

*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
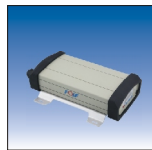
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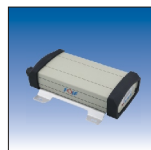

A10 Static Receiver

A20 Receiver

A3 Static Receiver

F60 Receiver

F50 GIS/RTK Handheld

A100 Reference Receiver

A200 CORS Receiver

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

FOIF
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Since 1958

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