



A60 GNSS Receiver



- Smart design, remarkable performance
- Professional GNSS satellites tracked simultaneously(GPS, Glonass, Galileo, Beidou)
- Equipped with industry standard GNSS engine (Trimble)
- Adopts multiple communication modules(Radio, 3G...)
- Automatic data collection during centering
- Applies WIFI connection to realize WebUI control designed to modify settings and monitor the receiver status
- When the pole is tilted in 30 degrees, A60 still could get the right point data by automatic correct system

GNSS Engine

- Trimble BD930 (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

Real-Time Accuracy (rms)^{*1}

- SBAS (WAAS/EGNOS/MSAS)
Horizontal: <3 m (10 ft)
- Real-Time DGPS position
25 cm (0.82 ft)+ 1.0 ppm (rms) in typical condition
- Real-Time Kinematic Position (fine mode)
Horizontal 8 mm(0.03ft) + 1.0 ppm
Vertical 15 mm(0.05ft) + 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 2.5 mm (0.008 ft) + 0.1 ppm
- Vertical 3.5 mm (0.011 ft) + 0.4 ppm
- Post-Processing Kinematic
- Horizontal 10mm(0.033 ft) ± 1.0 ppm
- Vertical 20mm(0.066 ft) ± 1.0 ppm

Solutions

Field Software Suite

FOIF Survey ,FOIF FieldGenius or Carlson SurvCE

Main functions include:

- A60 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
1- 60 seconds
- Physical
- Size
Unit: 12.5x13.5 cm(Ø x H)
- Weight
Rover:1.2kg (W/O battery)
1.35kg (With battery)

Monitoring Screen

- Graphical OLED display resolution

Memory

- Internal memory: 4GB,up to 400 hours of 15 sec. raw GNSS data from 18 satellites(expandable to 32GB)

I/O Interface

- LEMO port X 1(RS232,USB,power)
- TNC port X 1(radio)

Tilt survey sensor (Optional)

- Automatic correct system by 30 degrees

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: BT96 Li-ion
&life time:6.8Ah(>8hrs)
(UHF rover at 20°C)
- External power supply 10~15 VDC input
Battery Charger kit: FOIF FDQ7-01 and FDQ17-02

Optional System Components

- Communication Module
- Internal radio
-Satel UHF-Link(403-473MHz) Rx&Tx both
- Rx&Tx internal radio
-UHF-Link(403-473MHz)
- External radio
-FOIF external radio Rx & Tx(FDL-5, 5/35W selectable)
- Network module
- HSPA+(3G):
800/850,900,AWS 1700,1900,2100MHz(Standard)
-GSM/GPRS(2G):
850/900/1800/1900MHz(Optional)
- Controller
-F58

*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



A30 Receiver



A20 Receiver



A3 Static Receiver



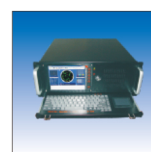
F60 Receiver



F58 GNSS/GIS Handhelder



A100 Reference Receiver



A200 CORS Receiver

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



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