
















Unlock unparalleled accuracy and efficiency with the FOIF A60 GNSS Receiver RTK Set. Whether you're surveying, mapping, or engineering, trust in FOIF's cutting-edge technology to elevate your performance to new heights.

In The Box

Sr No	Item Description	Quantity
1	FOIF A60 Pro GNSS Receiver (Base) 	1
2	FOIF A60 Pro GNSS Receiver (Rover) 	1
3	Controller with FOIF Software 	1
4	Carbon Fibre Pole and Bag 	1
5	Transport Case 	2
6	USB Type C Data Cable 	1
7	2 end C Type Data Cable and adapter 	6
8	Whip Antenna 	2
9	Cradle Connector 	1

10	Tribrach Adapter 	1
11	Tripod 	1
12	Receiver Connector 	1
13	Circular Plate 	1
14	Extension Rod 	1
15	Measurement Tape 3M 	1

Note : Above images are for illustration purpose only, at the time of delivery items may differ as shown in the image.

Featured Specifications:

GNSS Receiver:

- ✚ Channels: 1408
- ✚ Constellations: GPS, GLONASS, BeiDou
- ✚ Frequency: L1/L2/L5

Tilt survey sensor

- ✚ Automatic correct system by 60 degree

Communication Module

- ✚ Internal radio
UHF-Link(410-470MHz) Rx&Tx both - 1W up to 8KM
- ✚ 4G LTE module:
Fits various networks up to 30 - 40 KM
- ✚ Bluetooth : 2.1+EDR Class2
- ✚ WiFi : IEEE 802.11 b/g/n
- ✚ Antenna
Built-in antenna,integrating GNSS BT/WLAN and network antenna

Accuracy:

- ✚ Horizontal: 8mm + 1.0 ppm
- ✚ Vertical: 15mm + 2.0 ppm

Memory

- ✚ Internal memory: 8GB standard; Supports extending to 32GB

Power:

- ✚ Battery: Inbuilt Rechargeable Li-ion
- ✚ Battery Life: Up to 8-10 hours

Environmental:

- ✚ Operating Temperature: 30°C to 65°C
- ✚ Waterproof and Dustproof: IP67(IEC60529)

A60 Pro GNSS Receiver Full Specification

GNSS Engine

- Channels: 1408
- Receiver type: GNSS multi-frequency RTK with carrier phase
- Update rate: 1Hz standard
- 10, 20, 50Hz optional
- SBAS Tracking: 3-channel, parallel tracking
- Signal received:
GPS L1CA/L1P/L1C/L2P/L2C/L5
GLONASS G1/G2, P1/P2
BeiDou B1/B2/B3
Galileo:E1, E5A, E5B, E5AltBOC, E6
QZSS L1CA/L2C/L5/L1C
L-Band(optional)

Performance Specifications

- Time to First Fix(TTFF):
cold start:<60 s typical (no almanac or RTC)
Warm start:<30 s typical (almanac and RTC)
Hot start:<10 s typical (almanac, RTC and position)
- Maximum Speed: 1,850 kph (999 kts)
Maximum Altitude: 18,288 m (60,000 ft)
- Differential Options: SBAS, Autonomous External RTCM,RTK, L-band (Atlas) DGPS

Real-Time Accuracy (rms)*1

- Real-Time Kinematic Position
Horizontal: 8mm + 1.0 ppm
Vertical: 15mm +2.0 ppm

Solutions

- Field Software Suite
FOIFPad(WM/Android) ,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 coloured 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
- Flat design
- Size: 156mm*76mm(@x H)
- Bottom cover: Aluminium magnesium alloy

Memory

- Internal memory: 8GB standard;
Supports extending to 32GB

I/O Interface

- "TNC port: connecting built-in radio antenna
- 5-pin lemo port: connecting external power supply and external radio
- 7-pin lemo port(USB+serial port): connecting PC and handheld

Operating system

- Based on Linux; Supports Web UI

Voice : Multi-language supported

Tilt survey sensor

- Automatic correct system by 60degree

Data Format

- RTCM V2.3, RTCM V3.2, CMR. CMR+

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

Power

- 7.2V, 6800mAh,inbuilt battery

Optional System Components

- Communication Module
- Internal radio
UHF-Link(410-470MHz) Rx&Tx both -1W
- External radio
FOIF external radio Rx & Tx(TRU35 2/35W selectable)
- 4G LTE module:
Fits various networks
- BlueTooth : 2.1+EDR Class2
- WiFi : IEEE 802.11 b/g/n
- Antenna
Built-in antenna,integrating GNSS BT/WLAN and network antenna
Controller P94C

*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

Environmental

- Operating temperature:
30°C to 65°C
- Storage temperature:
40°C to 80°C
- Humidity: 100% condensing
- Waterproof: IP67(IEC60529)
- Shock: 2 m (6.56 ft) pole drop
1.2m(3.94ft) free drop