A60 Pro Mini GNSS Receiver



- Compact design, more productive
- Professional GNSS satellites tracked simultaneously(GPS,Glonass,Galileo,Beidou)
- Cutting-edge IMU tilt survey technology is adopted, supporting up to 60° tilt angle
- Applies WIFI connection to realize WebUI control designed to modify settings and monitor the receiver status
- Bundled Android field software brings a big change in user experience and accessibility

A60 Pro GNSS Receiver Specifications

GNSS Engine

- Channel: 1408
- Signal received: All constellation and all band reception
  BDS B1I/B2I/B3I/B1C/B2a/B2b
  GPS L1C/A/L2P(Y)/L2C/L5
  GLONASS G1/G2/G3
  Galileo E1/E5a/E5b/E6
  QZSS L1/L2/L5

Performance

- Time Accuracy(RMS):20 ns
- Velocity Accuracy (RMS):0.03 m/s
- Cold start:<30 s
- Initialization Time: < 5s(typical)
- Initialization Reliability: >99.9%
- Single-point positioning(RMS):
  Horizontal: 1.5m, Vertical: 2.5m
- DGPS(RMS):
  Horizontal: 0.4m, Vertical: 0.8m
- Static:
  Horizontal: ±(2.5mm+0. 5ppm)RMS
  Vertical: ±(5mm+0. 5ppm)RMS
- RTK(RMS):
  Horizontal: ±(8mm+1ppm)RMS
  Vertical: ±(15mm+1ppm)RMS

Data

- Internal memory: 8GB standard;
- Differential data: RTCM V3.x ;
- Data format: NMEA 0183;
- Data security: Static and RTK survey data stored and backed up in two ways

Environmental

- Temperature: -30℃ to +65℃ for operating temperature,-40℃ to +80℃ for storage temperature;
- Shock: 2 m pole drop resistant in normal temperature, 1.2m free drop
- Protection: IP68

Configuration

- Bluetooth: built-in, Bluetooth 2.1+EDR/Bluetooth 4.0 BLE;
- Electronic bubble: supported ;
- Tilt survey: IMU inertial navigation module, 400Hz dynamic output, calibration-free;
- Network communication: fits various networks;
- WIFI:802.11b/g/n, can connect to controller through WIFI replacing Bluetooth, supports WebUI wireless management including firmware update, data download, settings, station setup;
- Radio: internal 1w radio(Rx/Tx) with a typical working range of above 3km, external 2/35w radio(Tx) with a typical working range of above 15km, working frequency(410-470MHz), and supports protocol like PCC GMSK, TrimTalk450S, TrimMarkIII,SATEL,TrimTalk(4800), HZSZ, South9600, South19200, HiTarget(9600),HiTarget(19200), GeoTalk, GeoMark
- Satellite antenna: built-in quad-feeder microstrip antenna, zero phase center, built-in multipath suppression board

Physical

- Lightweight and mini design, 154mm*76mm(Φ x H) size, 1.0kg weight;
- Material: bottom is magnesium alloy and top is polymer plastics;
- Battery: 4.2V x 13600mAh,built-in lithium battery;
- User interface: 4 LED indicator lights, 1 SIM card slot, 1 button, real-time voice broadcasting,TNC port (connecting built-in radio antenna),5-pin lemo port (connecting external power supply and external radio), Type-C(quick charging)



Other

- Controller:P9III or P9IV;
- Software: FOIF Surpad;
- Application: Power system, land, construction, transportation, forestry, agriculture, deformation monitoring, water conservancy system

Related Products


A90 Receiver


A70 AR Receiver


TRU35 External Radio


P9IV Controller


P9III Controller


A100 Plus CORS

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

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