FOIF

A90 Intelligent 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

A90 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, supports TF card extending to 32GB;
- Differential data: RTCM V3.x ;
- Data format: NMEA 0183;
- Data security: RTK survey data secured in three ways(synchronizing storage in both controller and A90, and uploading to cloud for backup is available)

Environmental
- Temperature: −30℃ to 60℃ for operating temperature,−40℃ to 80℃ for storage temperature;
- Humidity: 100% condensing resistant;
- Shock: 2 m pole drop resistant in normal temperature;
- Protection: IP68

Configuration
- Bluetooth: built-in, Bluetooth 2.1+EDR/Bluetooth 4.0 BLE;
- Electronic bubble: supported ;
- Tilt survey: IMU inertial navigation module, 6-axis 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 5km, external 2/35w radio(Tx) with a typical working range of above 15km, and supports protocol like PCC-EOT, TrimTalk450S, TrimMarkIII， South, HiTarget, GeoTalk, GeoMark, etc

Physical
- Size: 156mm*76mm(Φ x H),
- Material: bottom is magnesium alloy and top is polymer plastics;
- Battery: 7.4V x 3400mAh x 2pcs,smart removable lithium battery(with power indicator);
- User interface: 4 LED indicator lights, 1 TF card slot, 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), 7-pin lemo port(USB+serial port, connecting PC and controller)

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

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Related Products

| A60 Pro 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

FOIF
It's professional
Since 1958

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