SFAIRA ONE PLUS GNSS RECEIVER

Easy Surveying, Precise Positioning



EASY-TO-USE DESIGN

Connected via Bluetooth, the Sfaira ONE Plus can connect to your CORS account smoothly from your smart phone and get a stable FIXED RTK solution. With a 5s simple tilt function initialization, you can directly start point survey, stakeout and other tasks within 60° tilt range through the SingularPad field software.

CENTIMETER ACCURACY

Designing for smaller size doesn't mean sacrificing GNSS performance. The Sfaira ONE Plus GNSS receiver is equipped with a high-precision GNSS engine, which can simultaneously track GPS, BDS, GLON-ASS, Galileo & QZSS, providing stable and accurate centimeter-level positioning in various environments.

POCKET SIZE & 18HRS BATTERY

Especially made for CORS users, the Sfaira ONE Plus is designed as small as possible while retaining the necessary functionality. Pocket-sized and lightweight at 409g, you can easily take it anywhere. Over 16hrs of battery life keeps you from power outages, which can also be charged via the Type-C port using a power bank.

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SATELLITES TRACKING

| Channels | 1408 |
|--------------------------------|---|
| BDS | B1I, B2I, B3I, B1C, B2a, B2b1 |
| GPS | L1 C/A, L1C ¹ , L2P, L2C, L5 |
| GLONASS | L1, L2, L3 ¹ |
| Galileo | E1, E5a, E5b, E6¹ |
| QZSS | L1, L2, L5 |
| Cold start | <30s |
| Warm start | <20s |
| RTK initialization time | <5s (typical) |
| RTK initialization reliability | >99.9% |
| Re-acquisition | <1s |

ACCURACY

| Standalone | 1.5m Horizontally 2.5m Vertically |
|------------|---|
| DGPS | 0.4m Horizontally 0.8m Vertically |
| RTK | 8mm+1ppm Horizontally 15mm+1ppm Vertically |

TILT FUNCTION

| Tilt range | 60° tilt range |
|-------------------------|------------------------------|
| Tilt survey accuracy | ±2.5cm within 60° tilt range |
| IMU Initialization time | 5s |

DATA FORMAT

| Positioning data format | NMEA-0183 |
|-------------------------|-------------------------|
| Correction data format | - RTCM v3.3/3.2/3.1/3.0 |
| Data protocol | Ntrip |
| Data update rate | 1 Hz |
| Baud rate | 115200 bps |
| | |

COMMUNICATION

| Bluetooth | BT4.0 |
|-----------|---|
| Interface | Type-C, for charging and firmware upgrade |

ELECTRICAL

| Power consumption | 1.0 W |
|-------------------|--|
| Input voltage | 5V DC ≤ 2A |
| Battery | 4800 mAh - Up to 16 hours working time, with continu-ous Bluetooth transmission, satellite tracking and RTK surveying |

PHYSICAL

| Size | Φ50 mm ×149 mm |
|-----------|--|
| Weight | 409g |
| Button | 1 power button |
| Indicator | 2 LEDs, indicating satellite tracking and battery status |

ENVIRONMENTAL

| Working temperature | -45 °C to + 75 °C |
|------------------------|---|
| Storage temperature | -55 °C to + 85 °C |
| Waterproof & dustproof | IP65 |
| Drop | Designed to survive a 1.5m drop onto concrete |

1. BDS B2b, GPS L1C, GLONASS L3 and Galileo E6 signals are reserved for future upgrade.

All specifications are subject to change without notice.

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