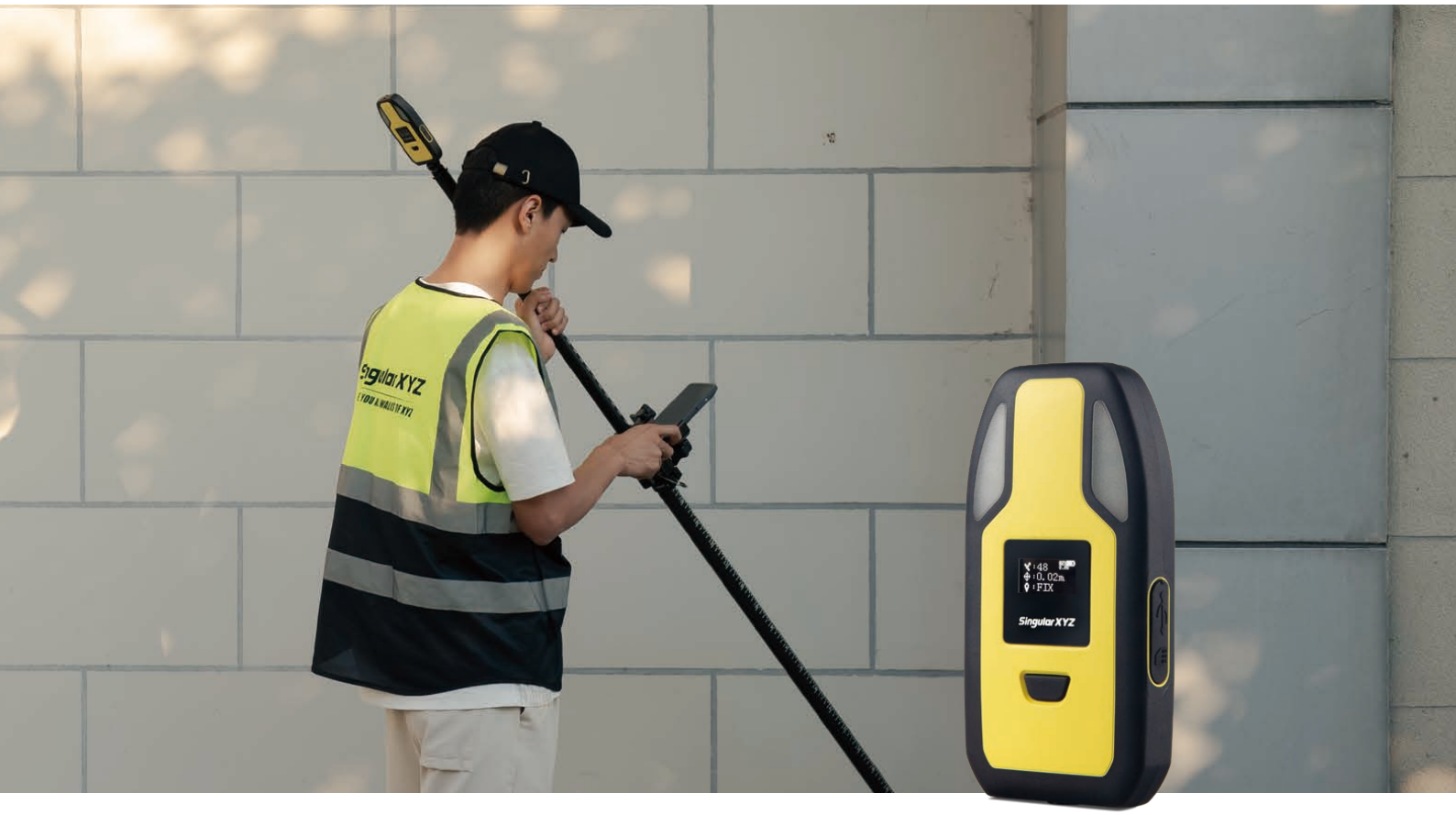
P2 PLUS

GNSS RECEIVER

Light & Wearable For GIS & Surveying



CENTIMETER POSITIONING

Integrated with 1408-channel GNSS engine tracking GPS, BDS, GLONASS, Galileo and QZSS synchronously, P2 Plus GNSS receiver delivers consistent and reliable centimeter-level positioning for your surveying tasks even in challenging environments, such as construction obstacles, forest, etc.

FOR EASIER SURVEYING

To provide easier surveying experience, the P2 Plus has upgraded with an IMU module for up to 60° tilt surveying while keeping centimeter-level accuracy. With Bluetooth for easy configuration and 4G for RTK correction data transmission, providing stable positioning for your surveying or GIS tasks.

WEARABLE & FLEXIBLE

Designed with flexibility, the P2 Plus can be mounted on a range pole for professional land surveying, wear it on the arm or handheld for convenient GIS data collection. The various alert functions of voice alert, warning lights and vibration alert also make P2 Plus an ideal choice for construction safety application.

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P2 PLUS GNSS RECEIVER

Version 12-12-2024

SATELLITES TRACKING

Channels	1408
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GPS	L1C/A, L1C, L2C, L2P(Y), L5
GLONASS	G1, G2, G3
Galileo	E1, E5a, E5b, E6
QZSS	L1C/A, L1C, L2C, L5
NavIC	L5
SBAS	WAAS, EGNOS, SDCM, BDSBAS, GAGAN
L-Band	Upgradeable
Cold start	<30s
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
Static post-processing	2.5mm+0.5ppm Horizontally 5mm+0.5ppm Vertically
RTK	8mm+1ppm Horizontally 15mm+1ppm Vertically
PPP*	5cm Horizontally 10cm Vertically
SBAS	< 1.0 m 3D RMS
Time Accuracy	20ns
Tilt surveying	<±2.5cm, within 60° tilt

TILT FUNCTION (PLUS MODEL ONLY)

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

COMMUNICATION

Bluetooth	BT4.2 BR/EDR
WiFi	802.11 b/g/n
4G	LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 GSM: Band 850/900/1800/1900 MHz

ELECTRICAL

Battery	4000mAh
Input Voltage	5V, 2A

PHYSICAL

Size	135*70*22mm（L*W*H）
Weight	199 g

FUNCTIONALITY

Visual Alert	Two bright lights flash to provide a warning signal
Auditory Alert	Emits a loud and distinctive sound as an alert
vibration alert	The wearable vibrates vigorously to alert the wearer.
UWB	Reserved

ENVIRONMENTAL

Waterproof & dustproof	IP67
Shock	Designed to survive a 1.5 m drop onto concrete
Operating temperature	-20 °C to + 60 °C
Storage temperature	-20 °C to + 60 °C
Humidity	100% non-condensing

APPLICATION

- Land Surveying
- Construction Safety
- Geographical information collection
- Personnel positioning
- Vehicle trajectory tracking
- Inspection and investigation
- Other high precision applications

All specifications are subject to change without notice.

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