

P2

GNSS RECEIVER

Accurate, Wearable, Alert: Elevating Construction Safety.



CENTIMETER POSITIONING

Considering obstacles in the construction site and in order to handle more complex environments, P2 GNSS receiver is upgraded with 1408-channel GNSS engine, tracking GPS, BDS, GLONASS, Galileo and QZSS synchronously, providing enhancing consistent and reliable centimeter-level positioning.

WEARABLE & FLEXIBLE

Designed with versatility, the P2 offers exceptional adaptability. It can be mounted on a range pole for professional land surveying. Or utilized as a handheld device for convenient GIS data collection. You can also wear it on the arm, around the neck, or install it on a helmet to enhance personnel safety.

FOR CONSTRUCTION SAFETY

Specially made for construction safety, the internal 4G of P2 can return real-time location data of on-site personnel. In case someone enters a danger zone, P2 swiftly alerts them via two warning lights, voice alert and vibration alert. To support seamless integration of various projects, SingularXYZ offers an SDK for third-party platform development.

SATELLITES TRACKING

Channels	1408
BDS	B1I, B2I, B3I, B1C, B2a, B2b ¹
GPS	L1 C/A, L1C ¹ , L2P, L2C, L5
GLONASS	L1, L2
Galileo	E1, E5a, E5b
QZSS	L1, L2, L5
Re-acquisition	<1s

ACCURACY

DGPS	0.4m Horizontally 0.8m Vertically
RTK	8mm+1ppm Horizontally 15mm+1ppm Vertically
Velocity accuracy	0.03m/s
Time accuracy	20ns

COMMUNICATION

Bluetooth	BT4.2 BR/EDR
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, up to 10 hours working time
Input Voltage	5V, 2A

PHYSICAL

Size	135*70*22mm (L*W*H)
Weight	< 300g

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.
IMU	Supported on Plus model
UWB	Reserved

ENVIRONMENTAL

Waterproof & dustproof	IP67
Shock	Designed to survive a 1.5 m drop onto concrete
Operating temperature	-40 °C to + 85 °C (-40 °F to 185 °F)
Storage temperature	-40 °C to + 85 °C (-40 °F to 185 °F)
Humidity	100% non-condensing

APPLICATION

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

1. The GPS L1C and BDS B2b are reserved for future upgrade.

All specifications are subject to change without notice.

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