

α-GEO

NetBOX2 Lite

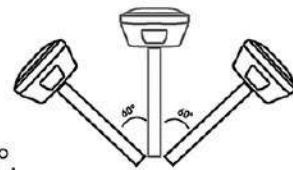


PRECISION As big as your pocket

NetBox2 Lite is a new generation of compact smart GNSS receivers designed for various surveying projects using latest GNSS features. This receiver equipped with modern required technologies such as Bluetooth module, IMU tilt sensor, 6800 mAh lithium-ion internal battery, etc. **NetBox2 Lite** is able to work in different work modes (Network RTK, Static & PPK) based on different required accuracy & conditions. **NetBox2 Lite** is the most economic GNSS package you can purchase to fulfill your technical needs on field!

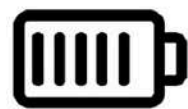
■ IMU Tilt Sensor

NetBox2 Lite is equipped with a fast initialization, calibration free & immune to magnetic interference Inertial Measurement Unit (IMU). All users can use this technology to collect or stakeout topo points up to 60°.



■ Battery & Power

NetBox2 Lite is delivered with an internal large capacity 6800mAh lithium-ion battery supporting USB type-C fast charging which allows users to work for more than 14 hours in daily field work.



14h

■ IP67

Choosing a small, light but professional, rugged GNSS receiver has always been a concern among professional surveyors. **NetBox2 Lite** with its high quality magnesium alloy body provides such advantages without decreasing quality or notable increase in price.



GNSS Performance

Satellite signals tracked simultaneously	GPS: L1 C/A, L2C, L2P, L5 GLONASS: L1, L2 BEIDOU: B1, B2, B3, B1C, B2a, B2b GALILEO: E1/E5a/E5b/E6 QZSS: L1/L2/L5/L6 SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM
Channels	1408 channels
Cold start	<60 s
Hot start	<15 s
Positioning output rate	1Hz-50Hz
Signal Reacquisition	<1s
RTK Initialization time	<5s
Initialization Reliability	>99.99%
Time accuracy	20 ns

Positioning

Static GNSS surveying	Horizontal: ±(2.5mm + 0.5ppm)
	Vertical: ±(5mm + 0.5ppm)
RTK Surveying	Horizontal: ±(8mm + 1.0ppm)
	Vertical: ±(15mm + 1.0ppm)

Hardware

Physical

Material	Magnesium alloy
Dimensions	100x100x73mm
weight	0.55kg
Operating temperature	-40°C to + 75°C
Storage temperature	-55°C to + 85°C
Protection IP	IP67 dust proof, protected from 30min immersion to depth of 1m
Shock	IK08, Survive 2 m drop onto the concrete
Vibration	MIL-STD-810G
Humidity	100%, condensing

IMU

IMU	Supported, 4D IMU initialization in 3 seconds
IMU update rate	400Hz
IMU accuracy	<2.5cm within 30°
IMU tilt compensation	0-60°

1- Precision and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. The specifications stated recommend the use of stable mounts in an open sky view, EMI and multipath clean environment, optimal GNSS constellation configurations. Base lines longer than 30 km require precise ephemeris and occupations up to 24 hours may be required to achieve the high precision static specification.

ΑΠΟΚΛΕΙΣΤΙΚΗ ΔΙΑΘΕΣΗ
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Power

Power: 9~24 V DC external power
Support USB Type-C fast charging
Internal 6800mAh lithium-ion battery

Battery Life
Rover Mode: 14 hours
Static Mode: 20 hours

Communication & Data Storage

I/O interface
USB TypeC (support charging, data download)

Radio

internal radio
RX internal module
internal radio frequency
410-470 MHz
Communication protocol
Transparent transmission /TT450S

Bluetooth

Fully integrated Bluetooth V4.0, range ≤ 50m

Data Format

Differential data
RTCM2.X, RTCM3.X
GPS output data format
NMEA 0183s RTK, Binary code
static data format
RINEX

Storage

8GB internal memory, supports cyclic storage; with ability to collect over one year raw observation based on 5 seconds interval

Other

System Integration

OS system
Intelligent LINUX operating system
Supported controllers
All android devices with supported software
Key
Double button
Indicator
Power indicator, data link indicator, satellite indicator, Bluetooth indicator

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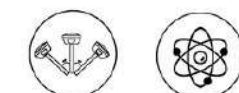
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IP67



BATTERY



IMU TILT

FULL GNSS

