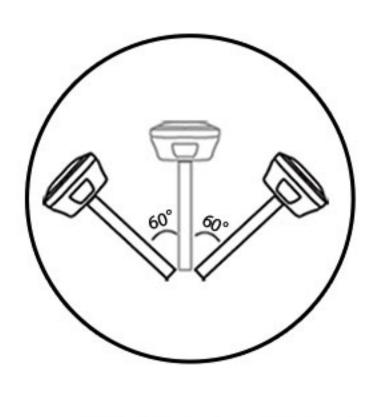


NetBOX2



PRECISION

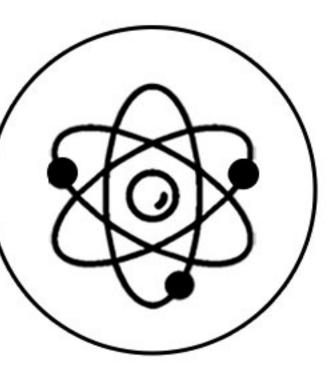
As big as your pocket



IMU TILT









FULL GNSS

Performance specification

GPS: L1C/A, L1C, L2P(Y), L2C, L5 GLONASS: L1, L2, L3 Satellite signals tracked BEIDOU: B1I, B2I, B3I, B1C, B2a, B2b simultaneously GALILEO: E1, E5a,E5b, E6 QZSS: L1, L2, L5, L6 SBAS: L1, L5 IRNSS: L5 1408 channels Channels Cold start <60 s Hot start Positioning output rate 1Hz-50Hz Signal Reacquisition <1s RTK Initialization time <5s Initialization Reliability >99.99% 20 ns Time accuracy

Positioning¹

HARDWARE

PHYSYCAL		
Material	Magnesium alloy	
Dimensions	100×100×73mm	
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, optimalGNSS 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.

ELECTRYCAL

Power: 9~24 V DC external pov	ver	
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); SMA radio	
	antenna interface	
WEBUI	Support WEBUI configuration	
Cellular	Controller 4G, Bulit-in LTE	
RADIO MODEM		
internal radio	RX internal module (Tx/Rx optional)	
internal radio frenquency	410-470 MHZ	
Communication protocol	Transparent transmission /TT450S	
WIFI		

802.11 b/g standard, access point & client mode, supports access to hotspot for correction transmission

Bluetooth

Fully integrated Bluetooth V4.0, range ≤ 50m

Data format

Differential data RTCM2.X、RTCM3.X

GPS output data format NMEA 0183s RJK, 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

Others

-		
System integration		
OS system:	Intelligent LINUX operating system	
Relay station	CORS relay, Radio relay	
	All android devices with supported	
Supported controllers	software	
	Design	
Key	Double button	
Indicator	Power indicator, data link indicator,	
	satellite indicator, Bluetooth indicator	
WEBUI	Support WEBUI configuration	

GUANGZHOU ALPHA GEO-INFO CO.,LTD

address: Building No.1, Gaopu Road No.68, Tianhe District,
Guangzhou 510630, Guangdong, China

Website: www.alphageo-info.com email: alphageo@aliyun.com

phone: +8618565149475



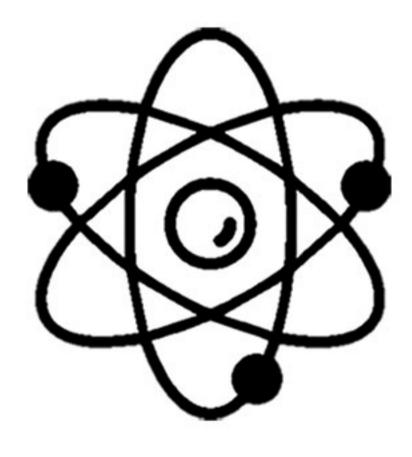


Netbox2 is a compact new generation of smart GNSS receiver designed for any surveying project using the latest GNSS technology. This receiver is equipped with all modern required connectivity modules: Bluetooth, Internal radio, WIFI & 4G modem. 6800mAh Built-in battery, IMU tilt technology and WebUI are other latest technologies used in Netbox2 receivers.



Multi constellation

Netbox2 with it's 1408 channels new generation full GNSS chipset & ability to support multiple satellite constellation including GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS and IRNSS provides precise and accurate spatial data for all users around the world.



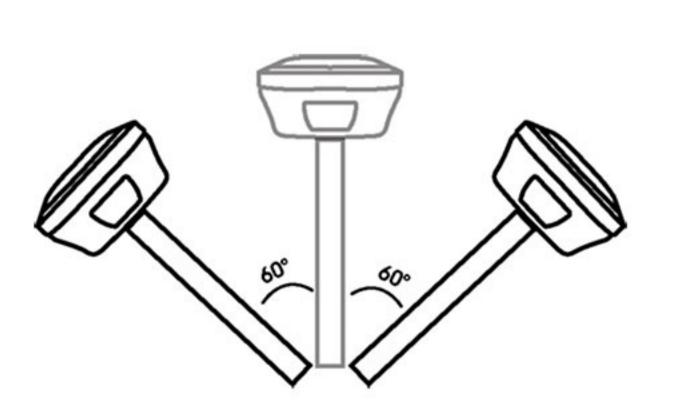
WiFi and WebUI

Netbox2 serves as a WIFI hotspot, so users can easily access/manage the status, set the configuration or download static and PPK raw data through advanced WebUI using computer, smartphone or other electronic devices with WIFI support without any need to third party software or cable.



IMU Tilt Sensor

Netbox2 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°.



■ GSM & UHF radio

A fast internet connection is guaranteed with a built-in 4G module that accelerate receiving correction data using all telecommunication signals and bands. Netbox2 comes with an integrated Tx/Rx internal UHF radio that ranges from 410 MHz to 470 MHz with selectable frequency providing ability to connect and collect accurate real time data in Base/Rover mode.



■ Battery & Power

Netbox2 is delivered with an internal large capacity 6800mAh lithium-ion internal battery supporting USB type-C fast charging which allows users to work for more than 14 hours in daily field work.



■ IP67

Choosing a small, light but professional, reugged GNSS receiver has always been a concern among professional surveyors. Netbox2 with its high quality magnesium alloy body provides such advantages without decreasing quality or notable increase in price.



Working mode

Every surveyor needs to operate and choose suitable working method based on project requirements and required accuracy. In order to work in such condition users will need a device to be able to work in different modes such as Static, Network RTK, UHF RTK, PPK & etc. Netbox2 is offering all you need in a package!

