

RTK Base Station

Safety Notice

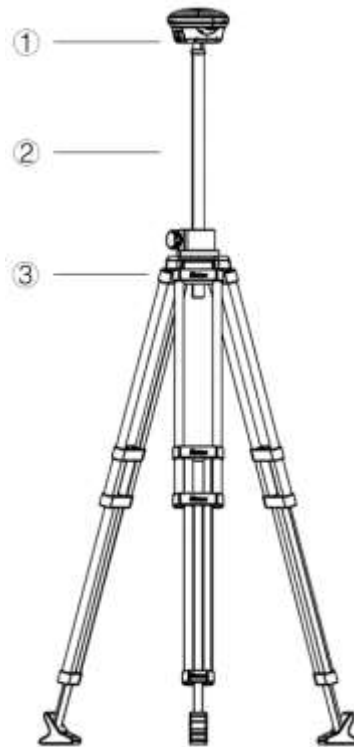
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
- Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product overview

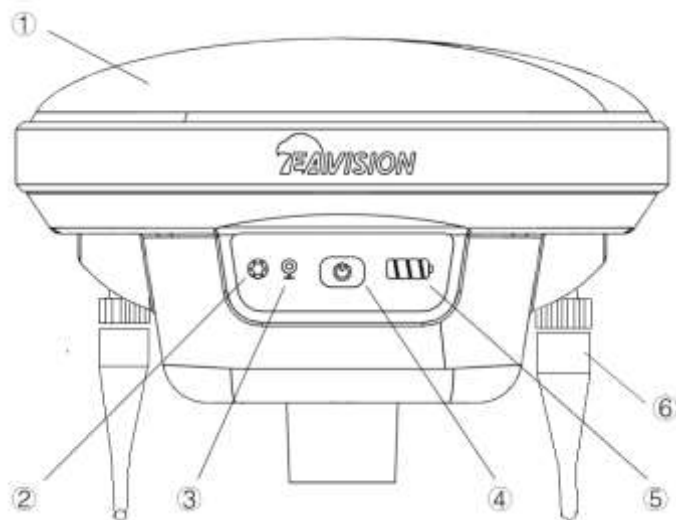
EAV-BAS30 is a high-precision satellite signal receiver, which can receive BEIDOU, GPS, Galileo, GLONASS, and other satellite signals. Equipped with the wireless data transmission radio, the built-in high-precision RTK module, and the surveying tool, it ensures the autonomous operations of the drone in areas with weak or no network.

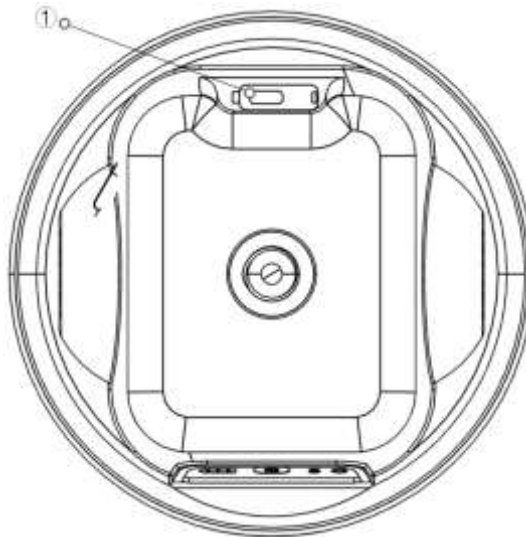
List of items



①Main Body ②Extension Rod ③Tripod

①GPS Antenna ②Status LED ③GPS LED ④Power Switch ⑤Battery Level LED
⑥2.4G Antenna





①TYPE-Charging Port/Portable Charger Port

LED description

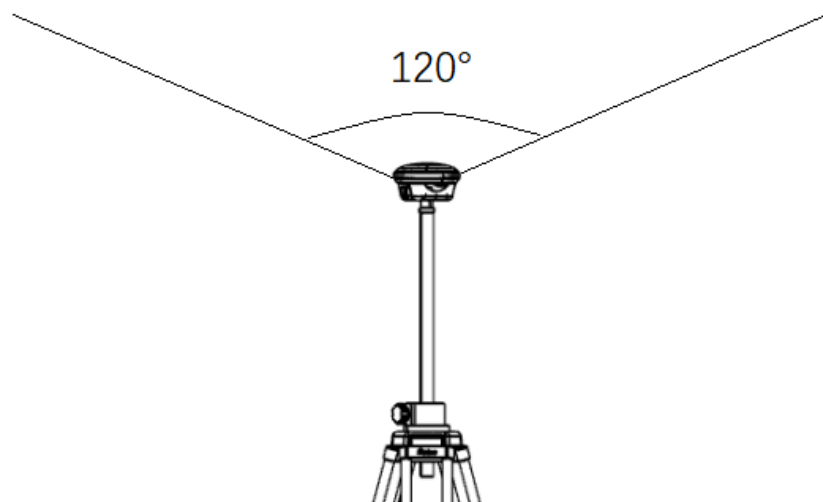


Base Station UI

	LED Signal	Description
Status LED	Off	Power off
	Solid Blue	Working
	Flashing Blue	Base Station Align Mode
	Solid Red	Initializing
	Flashing Red	Fault
DPGS LED	Off	Power off
	Solid Yellow	Initializing
	Flashing	Receiving Signal (Number of Satellites
	Flashing Blue	GPS Mode
	Solid Blue	RTK Mode

Assemble and use

Set the mobile base station in an open area and keep it horizontal. Make sure there's no obstruction between the remote controller and the base station, and the GPS antenna is unobstructed. Make sure nothing obstructs the area within 120° above the main body of the base station. Set the base station higher for better transmission distance when surveying and operating in hills and mountains.



- (1) Base station assembly, power-on, power-off, power check
 - a) Extend the tripod to set the base station to an appropriate height.
 - b) Assemble the 2.4G antenna and make sure it's tightened firmly.
 - c) Press and hold the power switch for 3s until the battery level LED flashes, then press to power on.
 - d) Press the power switch to check the battery level. Users can only power on the base station after the battery level LED shows the power and is off.
 - e) Press and hold the power switch for 3s until the battery level LED flashes,

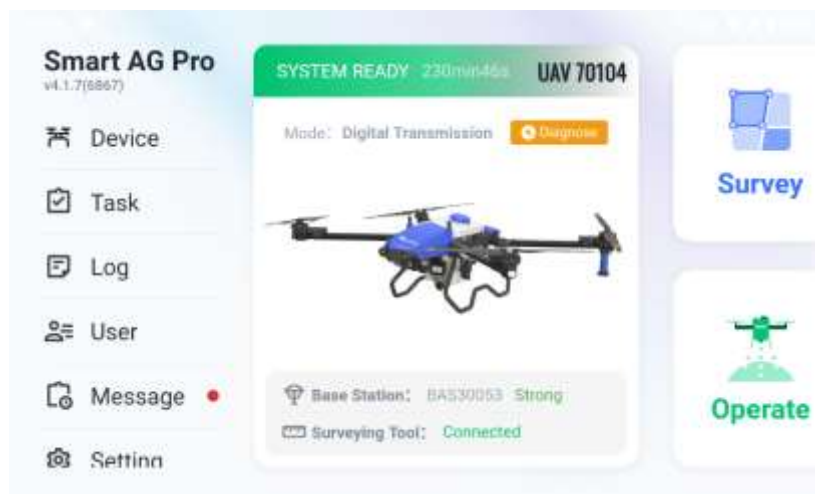
then press to power off.

(2) Ready for work

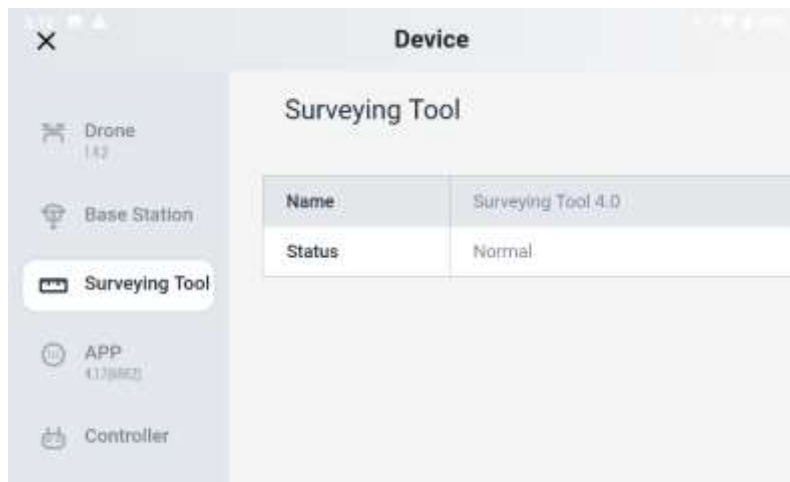
- a) Make sure the status LED is normal after powering on the base station.
- b) It takes about 90s for the base station to enter RTK mode in an open area.
- c) The base station is ready for work when the status LED shows solid blue and the DGPS LED shows solid blue.

(3) Surveying tool connection

- a) Mount the surveying tool to the remote controller.
- b) Enter EAVISION Smart AG Pro app and tap Device.



- c) View the connection status of the surveying tool. Make sure the Status shows normal.

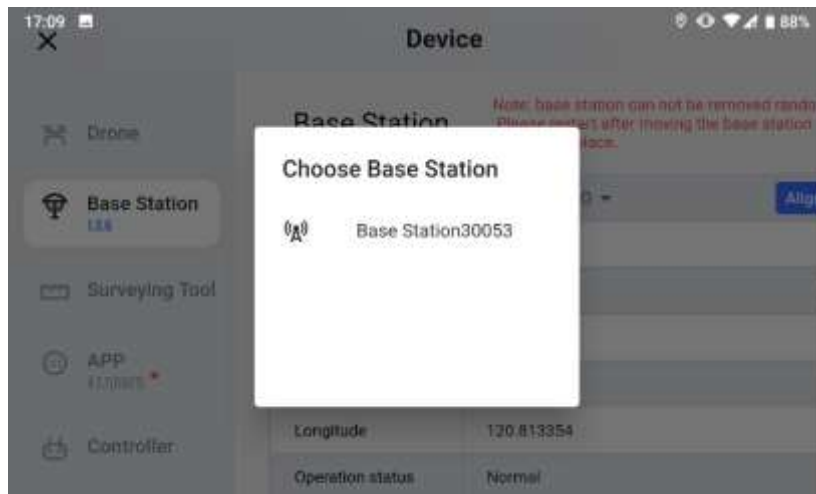


(4) Base station status check

- a) Tap Base Station, then the dropdown button to choose the type.



- b) Choose EAV-BAS30, tap the icon of the base station and it will be automatically connected. One base station can be connected to multiple remote controllers to offer centimeter-level positioning service for multiple EAVISION drones.

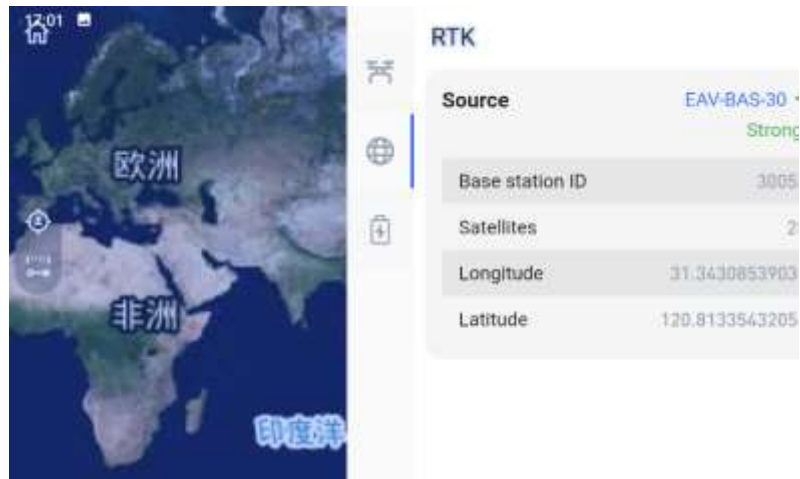


- c) After connecting to the base station, its information can be viewed on the app.

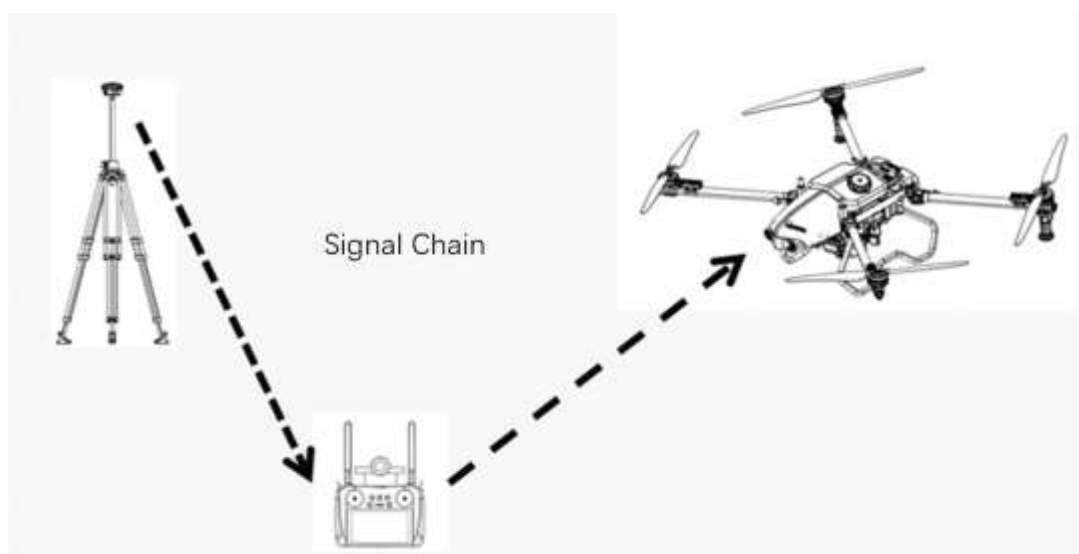


(5) Operations

- a) Surveying: enter Survey view, tap Setting to check the RTK connection status of the surveying tool. Start surveying when the RTK connection is normal. Make sure there's no obstruction between the remote controller and the base station to avoid losing the position information.



- b) Operations: enter Operate view, tap Setting to check the RTK connection status of the drone. Start operation after the drone is ready to receive tasks without warning prompts.
- c) Make sure there's no obstruction between the remote controller and the base station, and nothing obstructs between the remote controller and the drone during the operation. Otherwise, the signal at any end may be blocked which may lead to the loss of the RTK positioning signal.

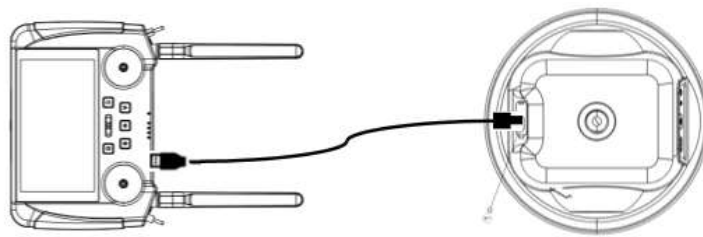


- d) Make sure the location of the base station in operation is the same with that

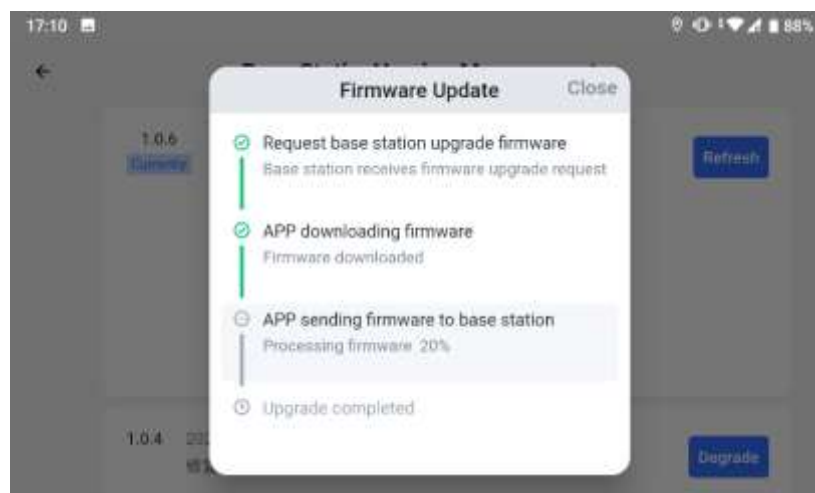
of the base station in plot surveying, and the error shall be less than 0.5m, or the operation accuracy will be decreased.

(6) Firmware upgrade

- a) Connect the base station with the remote controller through Type-C data cable.



- b) Tap Upgrade on Device view.
- c) Choose the corresponding firmware, tap Upgrade.
- d) The firmware will be upgraded automatically.



- e) The system will indicate the upgrade status after that, and the remote controller will restart automatically. Use the base station after the status

Firmware Update Close

- ✓ Request base station upgrade firmware
Base station receives firmware upgrade request
- ✓ APP downloading firmware
Firmware downloaded
- ✓ APP sending firmware to base station
Firmware upgraded
- ✓ Upgrade completed

Current location data can be kept in the base station, and there's no need to realign next time in the same location. Tap **Manage Base Station Location**, choose the previous location data, tap **Use the Location**, and then **Save Base Station Location** to apply the location data.