# **Brouav Base Station User Manual**

Version: V1.0.2



Version	Date	Description
V1.0.1	2021.2.4	First Release
V1.0.2	2021.2.5	Add upgrade instructions

# 1. Specifications

### 1.1.1. Appearance



#### 1.1.2. Size





### 1.1.3. Parameter

- (1) Protection grade: IP54
- (2) Satellite searching time: 60s

- (3) Transmission distance: 2000m (in an open area with 3.5m above ground)
- (4) Power: 5w
- (5) Endurance: >9h (No external charger connected)
- (6) Weight: 1.15Kg  $\pm$  20g
- (7) Size: 143\*143\*197.5mm

### 2. Power on

In the shutdown state, press and hold the button until hearing the boot music, then release to complete the boot procedure.



After power on, the base station will play short voice sentence or music in following:

- 1 power-on music,
- 2 "base station mode" or "base station dotter mode",
- 3 "searching satellites",
- 4 "setup successfully".

Do not click the button during the time. The base station will automatically start searching satellites without manual configuration. The satellite searching procedure should be done in about 60 seconds and a short voice sentence "Satellite search completed" will be played.

### 3. Mode switching

The device supports BASE STATION mode and DOTTER mode, which can be shifted by double-clicking the button. After double-clicking the button, the MD blue LED starts to flash as shown in the figure below. The configuration is succeed when the MD LED stops flashing. Do NOT press the key when the LED is flashing.



### 4. Ground Station Connection

1. First, open the ground station, Click



2. Click RTK Equipment, then click The base station 2, As shown in the figure.



3. Select the device you want to connect to (The device ID can be found on the side of the device).

•••			Not connected	Pesticide
	8	Billio tan Scanning	水晶熱发超市	
1	MOVIN 01 C0:E7:BF:5B:7B:76			
/	QCOM 00:7D:CC:DD:EE:FE			
安阳设备	VW Radio 00:09:93:A7:78:C8			
1	QFRTK21001032 44:A6:E5:4A:07:E1		永兴路	
	null 88:F5:6E:6D:F4:C6	D		69
	OPPO Reno5 5G C4:40:F6:78:78:54			

4. Here you can see whether the device is successfully located.

Pesticide	The base station 2		Electricity (Å 50%	A 17.0,Has been positioning	Positional Accuracy •••
9	水晶批发超市	耳陵大道			Ð
88			日本 の京語堂和 日本 の 京語堂和 日本 の 京語堂和 日本 の 京語堂和 の 文明市当 の 北和 の 変 明 の の の の の の の の の の の の の	H研中心 2关区工 8化局	(D) (D)
େଡ	<sup>永兴譜</sup>	● 开宇大庫			Job Accounting
			1		

## 5. Connecting aircraft

At this time, the aircraft can be connected (see the flight control manual for details of aircraft connection steps) to check whether the aircraft is in RTK state. When the star search display window prompts RTK, the aircraft has entered the RTK state, and then it can fly.

## 6. Mapping equipment connection

- 1. First, open the ground station, Click
- 2. Click RTK Equipment, then click Surveying and mapping 2, As shown in the figure.



3. Select the device you want to connect to (The device ID can be found on the side of the device).

Pesticide Not connected						•••
算破大道	Select device to connect		÷			
		FreeBuds 3 B	C:2E:F6:35:5C:C0			
		Hd Soaiy C	3:06:FA:06:0C:1B			安阳市公
	E	MOVIN 01 C	0:E7:BF:5B:7B:76			交通 # 3 驾驶人管 0
0 (5)(11)(2)(12)(12)(12)(12)(12)(12)(12)(12)	Protection of the later	QCOM 00	0:7D:CC:DD:EE:FE			9
	Ð	VW Radio 0	0:09:93:A7:78:C8	10 10	0	
~ ~	QFRTK20	000005 44	4:A6:E5:3A:CF:AD		支持其重公司	課信检:
				-		

4. Here you can see whether the device is successfully located.

Pesticide St	irveying and mapping 2	Electricity Satelite number Positional 20% 4. 18.0,RTK positioned @ 0.9n	Accuracy
	水晶批发超市	構築大道 器 □ 0 □ 5展型目初中心 □ 7 ○京展型目初中心	0 0 0
ଞ୍ଚ	*¥#	Receive RTK base station data	Job Accounting

### 7. Checking the state of charge

#### 1. Power off mode

Click the button and wait for the LEDs to flash twice quickly, then the state of charge will be shown as the number of LEDs that are light up.

#### 2. Power on mode

Observe the four LEDs at the corner of the base station:

Status of LEDs	Remaining battery power
••••	> 80%
	60% ~ 80%
••••	40% ~ 60%
	20% ~ 40%
••••	< 20%

# 8. Charging

#### 1. Charging with adapter

1Charge in the power-off state, as shown in the figure below. After charging starts, the bottom leds will display the charging progress.



②Charging during power on can extend the time of usage when in emergency. Long-term usage in charing state is NOT recommended.

#### 2. Charging with external battery

1Charge in the power-off state, as shown in the figure below. After charging starts, the bottom leds will display the charging progress.



2 Charging during power on can extend the time of usage when in emergency. Long-term usage in charing state is NOT recommended.