Setup Reach RS2+ to work as a base for drone RTK connection without external network connections

1-Download Reachview 3 app and follow :

https://docs.emlid.com/reachrs2/before-you-start/first-setup









Turn on the Receivers hot spot - which disconnects it from the regular wifi network and turns it into a local wifi transmitter that you can connect your DJI RC to (this will not have an Internet connection) It is purely the radio connection to transfer the Receiver gps corrections to the RC controller. **The RC controller can not be more than a few meters from the receiver to receive the corrections**



enter settings for the receiver after hot spot is active and phone is connected directly see screen shots 13-26 on page 5-6



Place your Reach on the tripod and provide it with a clear sky view over your know point.

You will need the measured height for entering in the step in screen shot 8

<u>*Critical info: - longitude must be entered in the Reachview app in East Longitude</u> <u>most surveyors will provide Longitude in West Longitude.</u> Ask surveyor for East Longitude. Click here to convert West longitude to East if required.

Lat and Long must be entered in decimal degrees in the Reachview 3 app Click here to convert degrees minutes seconds to decimal degrees.



7:26		ull 🗟 🖿	Conrecti	ng to base-1	
Settings	Vi-Fi	Edit		I	Receivers
		_	Conne	ecting	
Wi-Fi			\bigcirc	base-1	
✓ Graham_Guests	disconr	nectGr	R52+	192.168.42.1	
			Avai	able	
MY NETWORKS					
base-1:A3:59	connec	ct toi		Receive	rs will show up here
GrahamCorporate	e	হি 🚺		Can	't find Reach?
NETWORKS 🔆					
Other					
					4)
Ask to Join Network	s	Ask >			
Known networks will be known networks are ava before joining a new net	joined automatic ailable, you will b twork.	cally. If no e asked			
Auto-Join Hotspot	Ask	to Join >			
Allow this device to auto personal hotspots when	omatically discov n no Wi-Fi netwo	ver nearby rk is	R	A coivers	Survey



Profile

	▲ 192.168.42.1		
RS2+		No SIM 🚦	≣
Position output	:		
Output 1		OFF 🕖 C	N
Serial	TCP	BT	
 Stream is off 			
Output 2			N
Serial	TCP	BT	
 Stream is off 			
	16		

base-1 💷		ST 36 SINGLE				
K Base output	t Local NTRIP					
1 Check the r	network on rove	er				
Connect rove Reach's hotsp	r or drone contr oot:	oller to the				
reach:xx::	xx ch					
2 Configure I	NTRIP					
Use these cre on your rover	edentials to conf or drone contro	figure NTRIP Iller:				
Address		192.168.42.1				
Port	\frown	2101				
Username	17	reach				
Password	\smile	emlidreach				
Mount point		REACH				
Settings to be entered into the DJI RC in the RTK tab. Note the difference in the address from when connected to hotspot vs when connected to Wi-Fi						
Receivers	Survey	Profile				

RS2+ No SIM	Serial NT	RIP TCP LoRa BT
Base mode Corrections output Serial NTRP TOP LORA BT Corrections output format + RTCM3 Base coordinates input mode Coordinates input mode Verage single Coordinate accumulation time Coordinate accumulation tinter Coordinate accumulation t	Corrections of Base coordinates Coordinates input Manual Latitude, deg 50.94746 Longitude, deg 104.772 Height, m 549.264 Antenna height Height, m 0.439 Height value must	the select select (19) confirm these settings are the same as from screen shot 9 or input them to match be between 0 and 0.5535 meters
Height, m 555,1220	RTCM3 messages	

