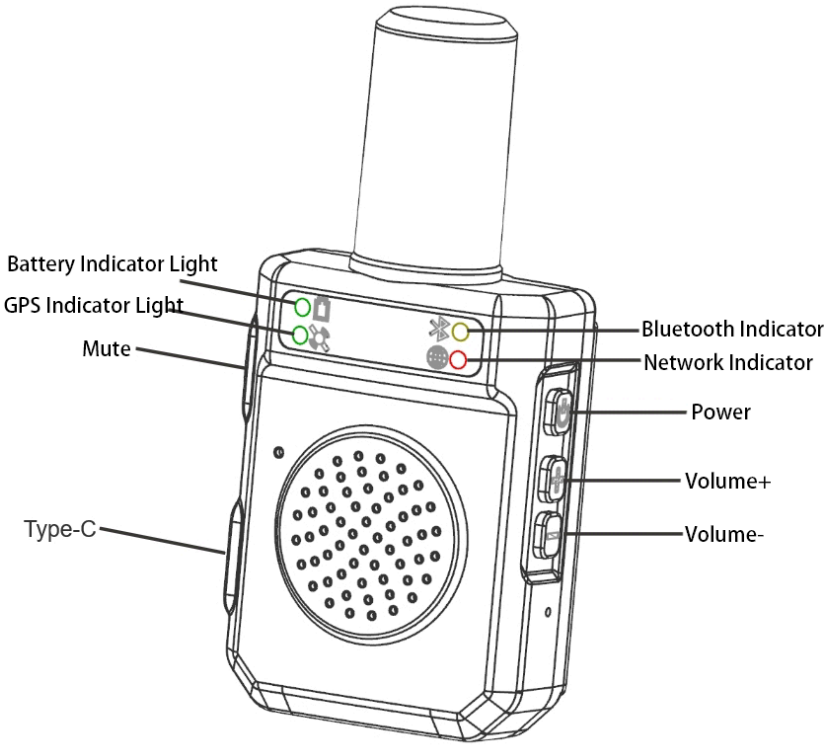
User Manual for D10 Wearable RTK

1. Overview

The D10 Wearable RTK is a high-precision satellite positioning device with built-in full-frequency or dual-frequency satellite positioning module, WIFI module, Bluetooth module, large-capacity battery, and an external high-precision four-arm helical antenna. It is small in size, light in weight, high in accuracy, and fully functional, making it a great helper for high-precision measurements .

2. Product Introduction



1. External Interface
   - Type-c: Used for charging, data transfer, firmware upgrade, etc.
2. Button

   1). Power button: Press and hold for 3 seconds to turn on; press and hold for 3 seconds to turn off;

   2). Volume Up: Increase the volume

   3). Volume Down: Decrease the volume

   4). PTT Key: Mute Switch

3. Indicator Light

   1) Power Indicator Light
   Red light on constantly indicates battery level below 20%, yellow light on constantly indicates battery level between 20% - 50%, and green light on constantly indicates battery level above 50%;
   2) Bluetooth Indicator Light
   Off indicates not connected to Bluetooth, green light on constantly indicates connected to Bluetooth;

   3) Positioning Light

   Not lit and not located, red light constantly on for single point, yellow light constantly on for floating, green light constantly on for fixed;

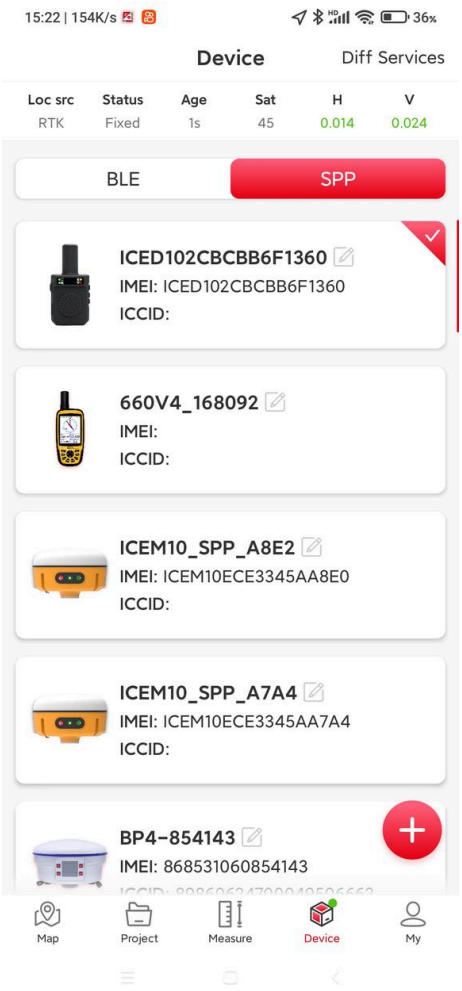
   4) Network Light

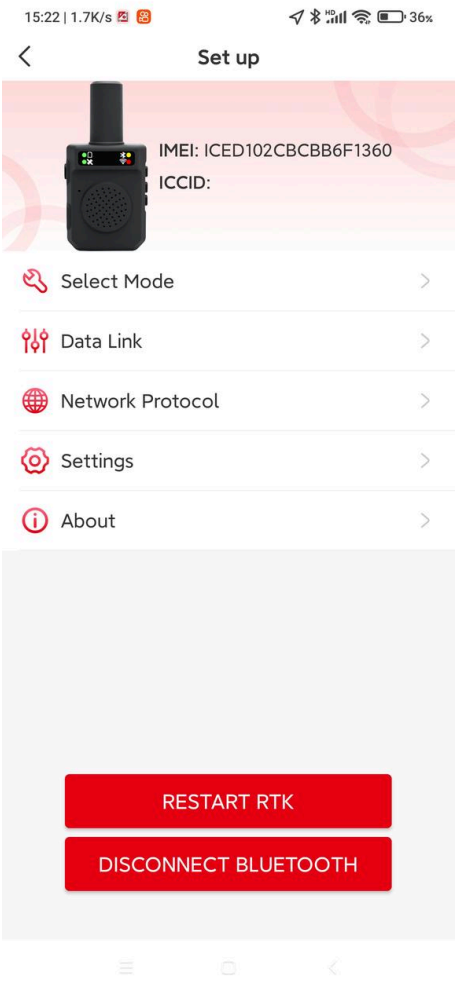
   Not lit indicates not connected to the network; solid green light indicates connected to WIFI;

III. Operating Instructions

1. APP Download Link:https://icesurvey.icegps.com/
2. Connect Device

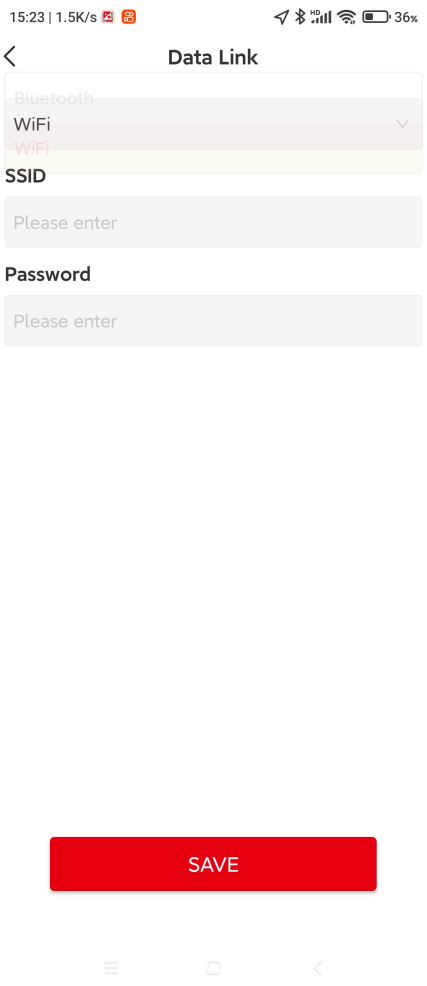
   Open the "RTK Measurement" APP, click on " Device ", select "SPP" , click on the "+" sign, select the correct device name from the list to connect the device (D10 device name starts with ICED10);





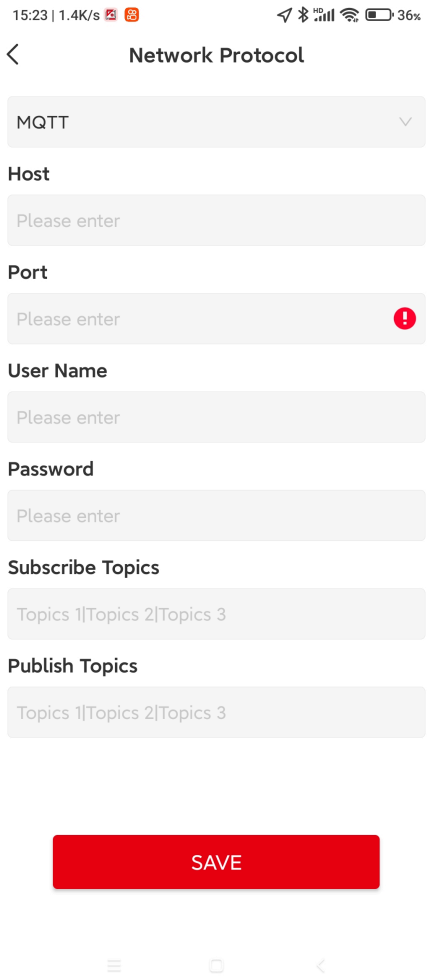
3. Configuration

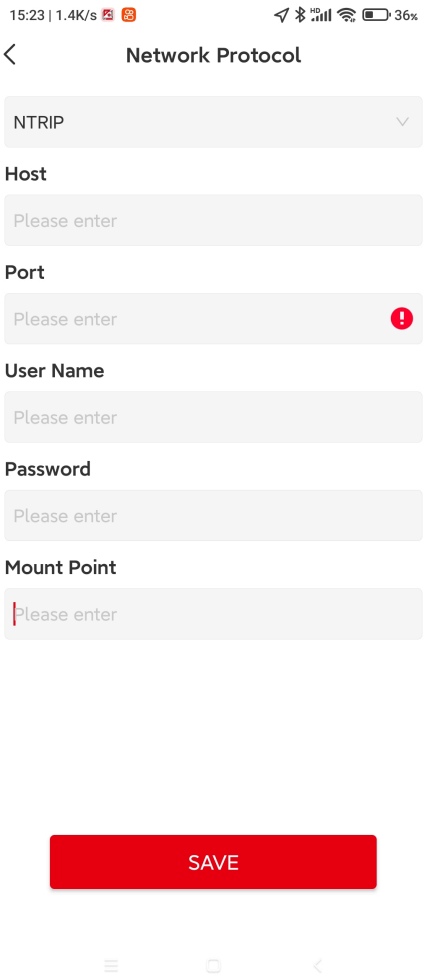
1). Data link: select WiFi or Bluetooth as needed; when selecting WiFi, network protocols need to be configured, and when selecting Bluetooth, Bluetooth differential is performed via the APP;



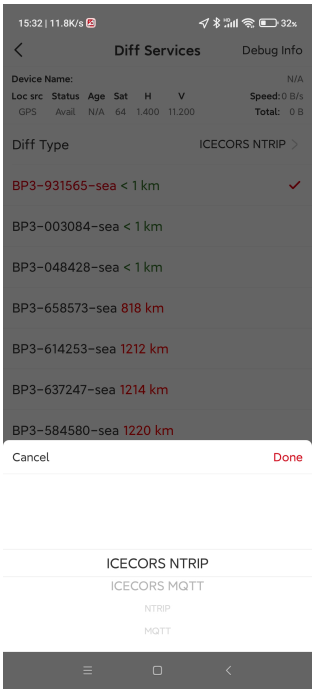


2). Network protocol, select MQTT or NTRIP as needed;



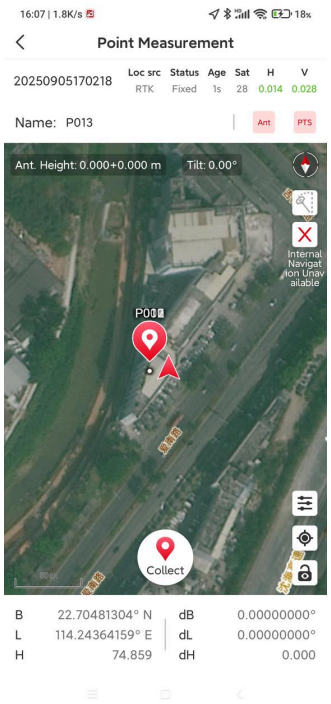


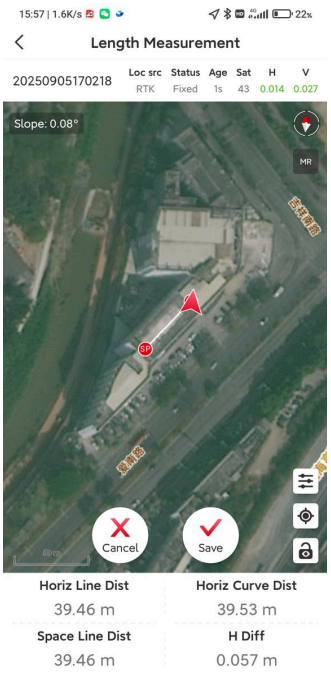
3). Bluetooth Differential: After selecting Bluetooth for the data link, restart the RTK device. After restarting, connect to the device again, and configure the differential source on the differential service interface;

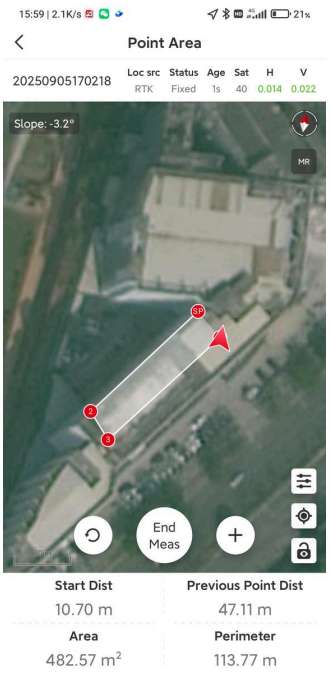


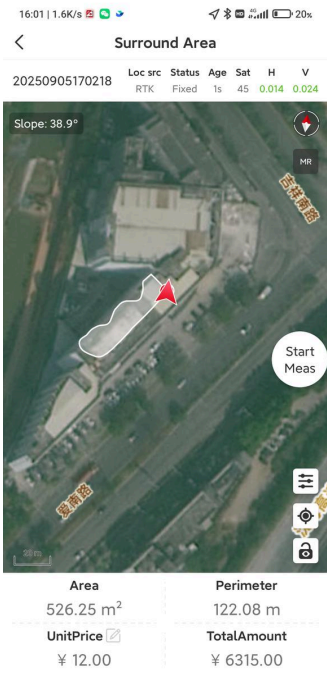
4. Measurement

The measurement function needs to be used in conjunction with the RTK measurement APP, which is required for measuring waypoints, lengths, areas, etc., as well as viewing measurement records;









4. Technical Parameters

	Performance Parameters	
RTK	Full Frequency	dual-frequency
RTK accuracy	Level: 0.7 cm + 1 ppm Elevation: 2 cm + 1 ppm	Level: 1cm + 1ppm Elevation: 2cm + 1ppm
WIFI	2.4GHz	
BT	SPP	
Battery	3000mAh（8-10 hours）	
	Physical parameters	
Working Mode	Measurement Station Mode	
Type-C interface	Charge	
Waterproof ability	IP65	

shell	PC+ABS plastic
Dimensions (mm)	60X36X127
Weight (g)	150