



WiT BWT901CL Bluetooth Inclinometer Sensor User Manual

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Product Information

The BWT901CL is a Bluetooth 2.0 inclinometer sensor designed for various applications such as AGV trucks, platform stability, auto safety systems, 3D virtual reality, industrial control, robots, car navigation, UAVs, and truck-mounted satellite antenna equipment. It is a multi-sensor device that detects acceleration, angular velocity, angle, and magnetic field. With its robust housing and small outline, it is suitable for industrial retrofit applications like condition monitoring and predictive maintenance. The device can be configured to address a wide range of use cases by interpreting the sensor data using smart algorithms.

Product Usage Instructions

1. APP Installation

To use the BWT901CL with an Android phone, follow these steps:

1. Download and install the required app from the provided tutorial link.

2. Connection

To connect the BWT901CL to your Android phone:

1. Ensure the app is installed and open on your phone.
2. Follow the connection instructions provided in the user manual.

3. Instructions of 2023 New Software

Refer to the user manual for instructions on using the new software.

4. Multiple-Connection Instructions

To connect multiple devices:

- Follow the connection instructions provided in the user manual.
- Configure the software settings, including data configuration, calibration, curve display, and data recording.

5. Warning Statement

Do not put more than 5 Volts across the sensor wiring of the main power supply to avoid permanent damage to the sensor.

Tutorial Link

Google Drive

Link to instructions DEMO:

WITMOTION Youtube Channel BWT901CL Playlist

If you have technical problems or cannot find the information that you need in the provided documents, please contact our support team. Our engineering team is committed to providing the required support necessary to ensure that you are successful with the operation of our AHRS sensors.

Contact

Technical Support Contact Info

Application

- AGV T ruck
- Platform S tability
- Auto Safety S ystem
- 3D V irtual R eality
- Industrial C ontrol
- Robot
- Car Navigation
- UAV
- Truck mounted S atellite A ntenna E quipment

Introduction

The BWT901CL is a multi-sensor device detecting acceleration, angular velocity, angle as well as magnetic field. The robust housing and the small outline makes it perfectly suitable for industrial retrofit applications such as condition monitoring and predictive maintenance. Configuring the device enables the customer to address a broad variety of use cases by interpreting the sensor data by smart algorithms.

- BWT901CL's scientific name is AHRS IMU sensor. A sensor measures 3-axis angle, angular velocity, acceleration, magnetic field. Its strength lies in the algorithm which can calculate three-axis angle accurately.
- BWT901CL is an CE standard accelerometer. It is employed where the highest measurement accuracy is required. BWT901CL offers several advantages over competing sensor:
 - Heated for best data availability: new WITMOTION patented zero-bias automatic detection calibration algorithm outperforms traditional accelerometer sensor
 - High precision Roll Pitch Yaw (X Y Z axis) Acceleration + Angular Velocity + Angle + Magnetic Field output
 - Low cost of ownership: remote diagnostics and lifetime technical support by WITMOTION service team
 - Developed tutorial: providing manual, datasheet, Demo video, free software for Windows computer, APP for Android smartphones
 - WITMOTION sensors have been praised by thousands of engineers as a recommended attitude measurement solution

Warning Statement

- Putting more than 5 Volt across the sensor wiring of the main power supply can lead to permanent damage to the sensor.
- For proper instrument grounding: use WITMOTION with its original factory made cable or accessories.
- Do not access the I2C interface.
- Do not change the baud rate because WITMOTION BLUETOOTH sensor's baud rate Default 115200 is fixed.

LED Status

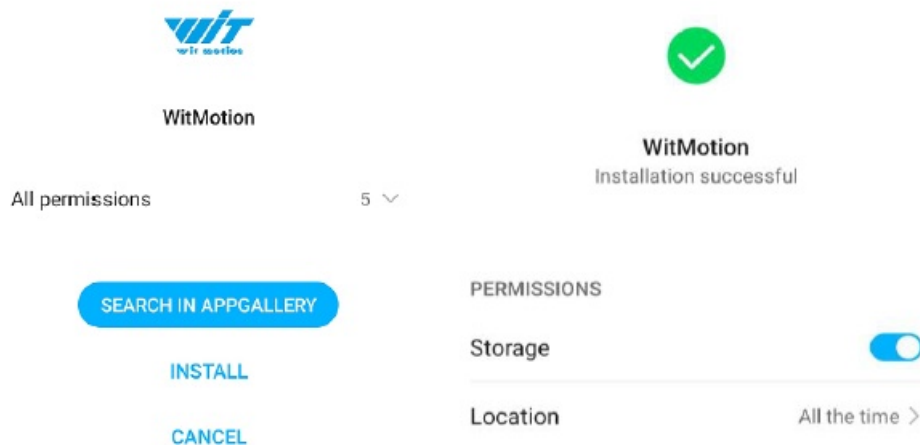
LED	Status	Remark
Red	Flashing	Charging
Blue	Flashing	Pairing process
	Keeping still	Successful pairing

Use Instructions with Android Phone

For APP configuration introduction, please referring to the link. https://drive.google.com/file/d/122Es4QPLi5R-O4TjN43FMFRcaNK9eSY8/view?usp=share_link.

APP Installation





Install the APK file, give permission of Location and Storage



WITMOTION 2023v New Android APP

Link to check the tutorial video.

https://youtube.com/playlist?list=PL43tdDrVL_VBMU2CrEZfC0MxA0aRz-EY1

My Drive > WITMOTION Document Center > Software, APP, Protocol,...					
Name ↓	Owner	Last modified ▼	File size		
 WITMOTION PROTOCOL	me	Dec 22, 2022 me	—	⋮	
 Software	me	Apr 19, 2023 me	—	⋮	
 Sample Codes (SDK)	me	Apr 19, 2023 me	—	⋮	
 Android APP(for WT901BLECL,WT901DCL,BWT61CL,BWT901CL only))	me	Apr 20, 2023 me	—	👤 ⬇️ 📄 ☆ ⋮	

About Android APP:

1. It is required to allow for application positioning (Always allowed), and turn on the positioning function and Bluetooth.

Note: Paired devices can be searched without turning on positioning, but according to Google's requirements, if APP installed on a higher version of Android (6.0) mobile phone is paired with a Bluetooth device, positioning must be allowed when using Bluetooth at the same time.

2. After turning on Bluetooth, it takes about one minute to search for authorization to find Bluetooth.



Connection

APP Pairing

- Step 1. Install the APK file, give permission of Location and Storage
- Step 2. Open APP and click "Connect"

Connecting device

Select equipment model BWT901CL >

Enabling the scanning device  

Available equipment

HC-06(20:21:01:12:29:85)

SPP Bluetooth RSSI: -65dBm



Connect



My device



cloud

- Step 3. Turn on the sensor, select “BWT901CL” and then scan the device.

Connecting device

Select equipment model BWT901CL >

Enabling the scanning device ☒

Available equipment

HC-06(20:21:01:12:29:85)
SPP Bluetooth RSSI: -65dBm ☐

Note: The device will show as “HC-06”+“MAC address” or “HC-02”.

Available equipment

HC-06(20:21:01:12:29:85)
SPP Bluetooth RSSI: -64dBm ☒

- Step 4. Input password “1234” to pair with “HC-06”, then click “OK”.

Pair with HC-06?

1234

Usually 0000 or 1234

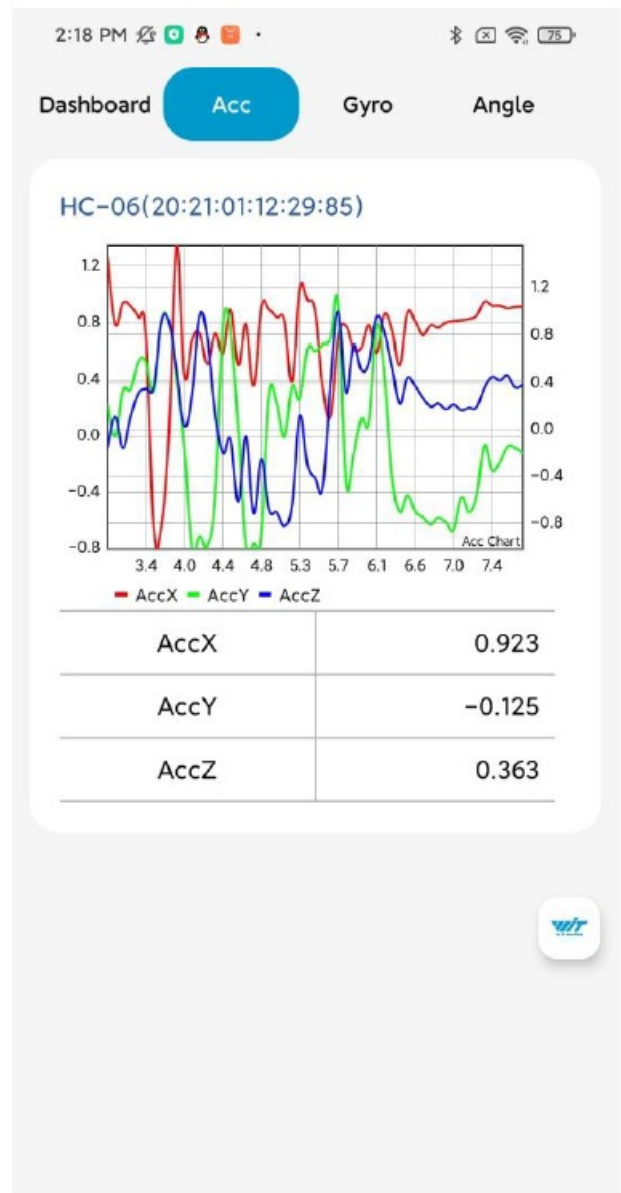
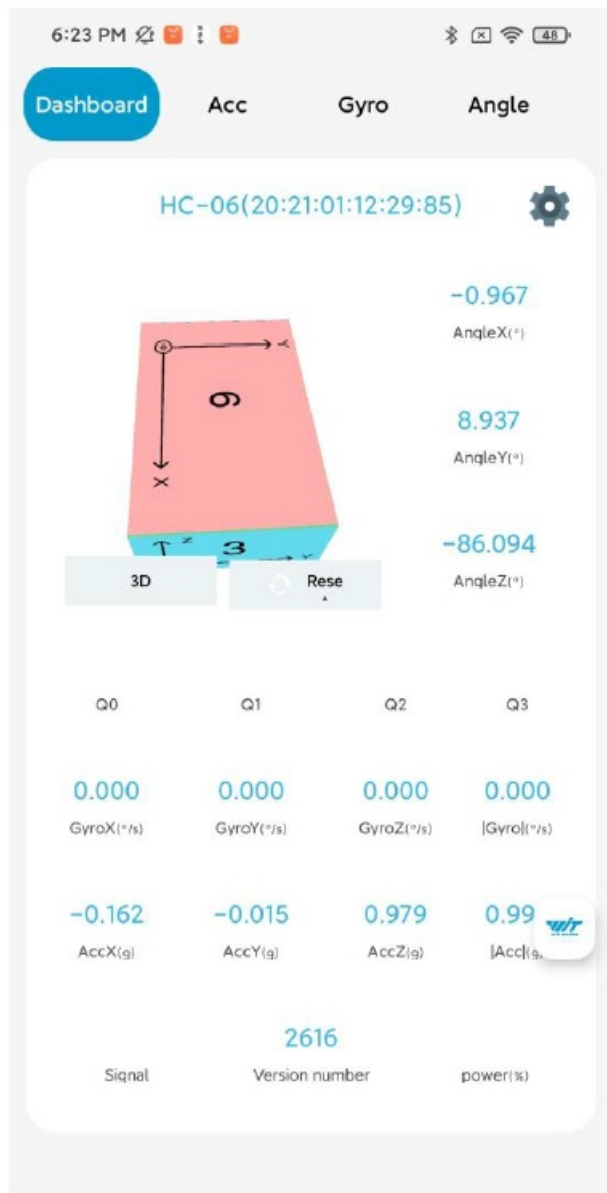
☒ PIN contains letters or symbols

You may also need to type this PIN on the other device.

☐ Allow access to your contacts and call history

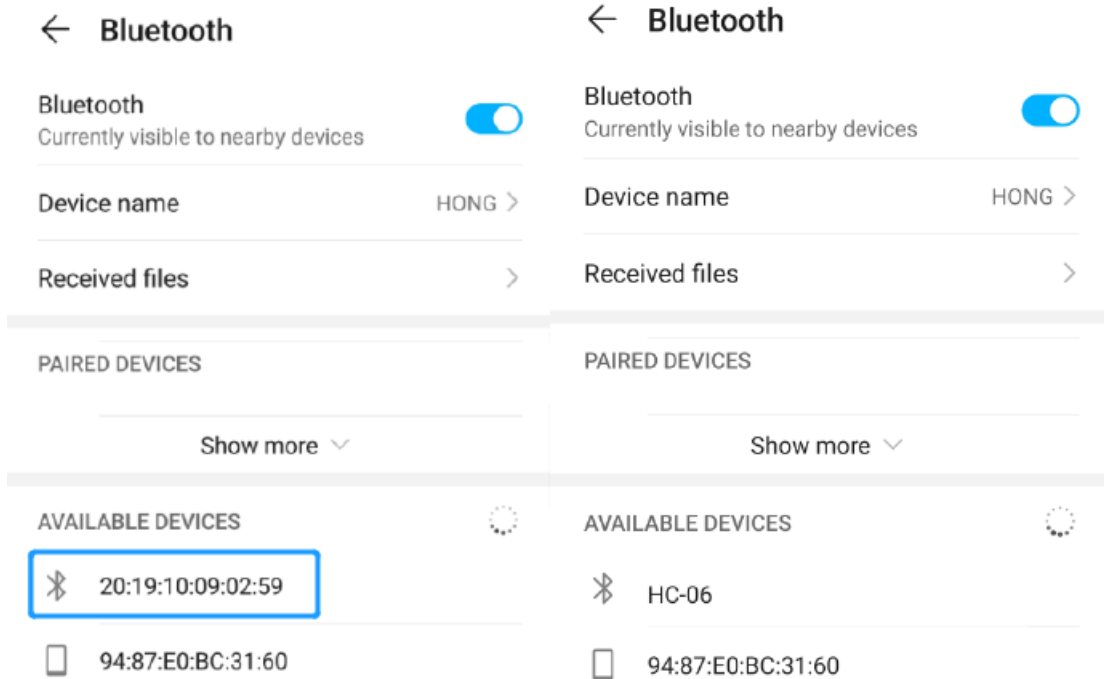
Cancel OK

- Step 5. When pairing is done, the blue LED light of the sensor will flash and keep about one second. After a few seconds, the data will show automatically.

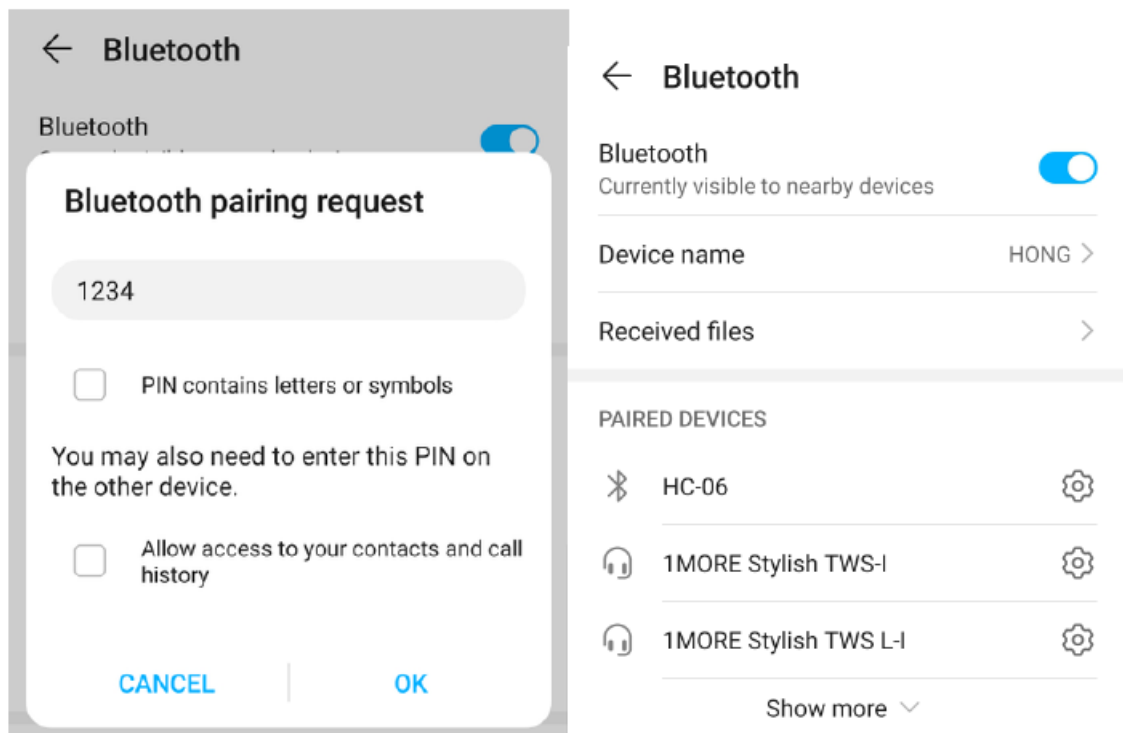


Phone s Bluetooth Pairing

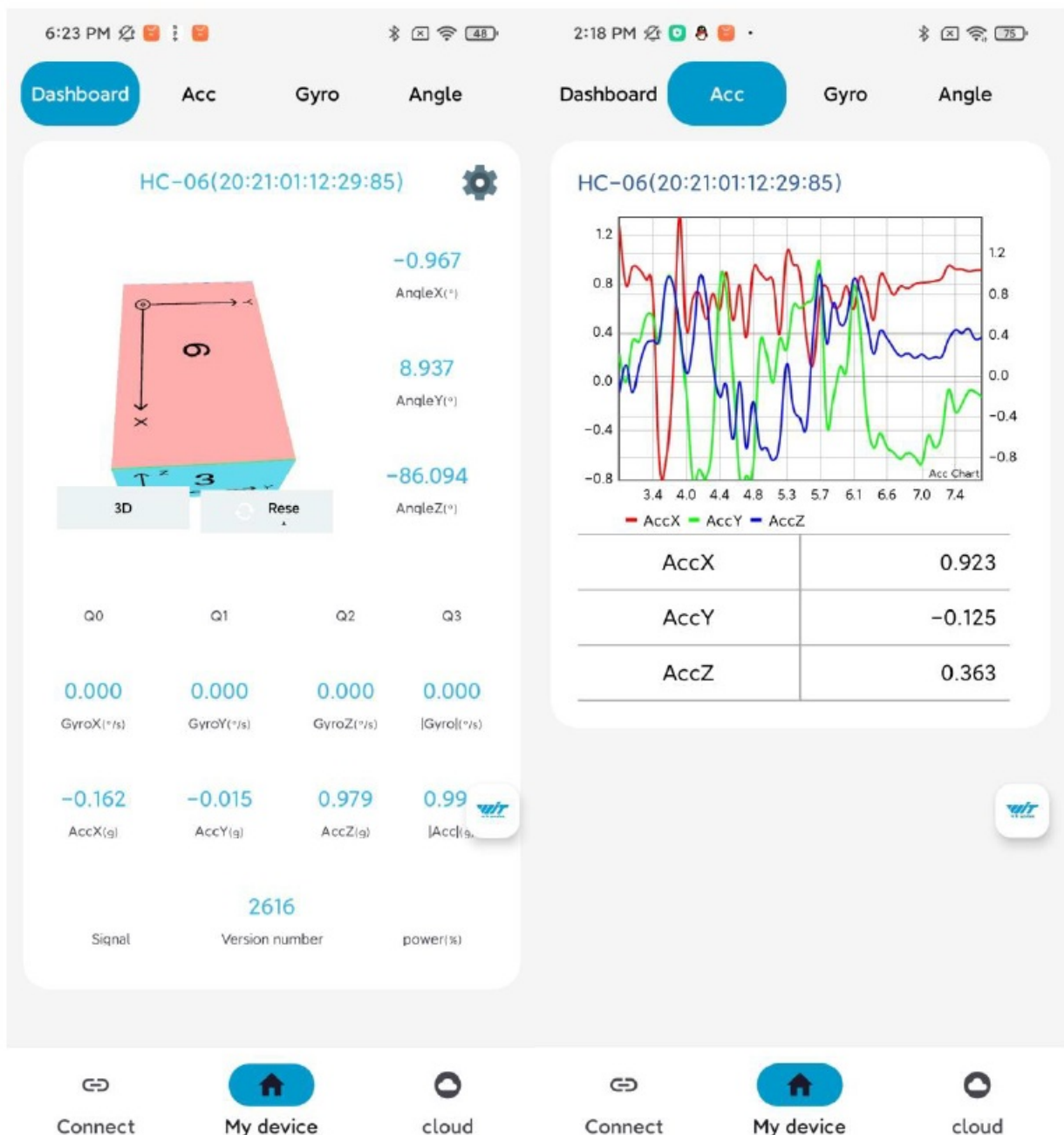
- Step 1. Install the APK file, give permission of Location and Storage
- Step 2. Turn on the Bluetooth in the setting menu of smartphone
- Step 3. Search the Bluetooth sensor (First pairing the device will be recognize as mac address and will be shown as HC-06 after successful pairing.)



- Step 4. Click the “MAC address” device and input the password “1234”



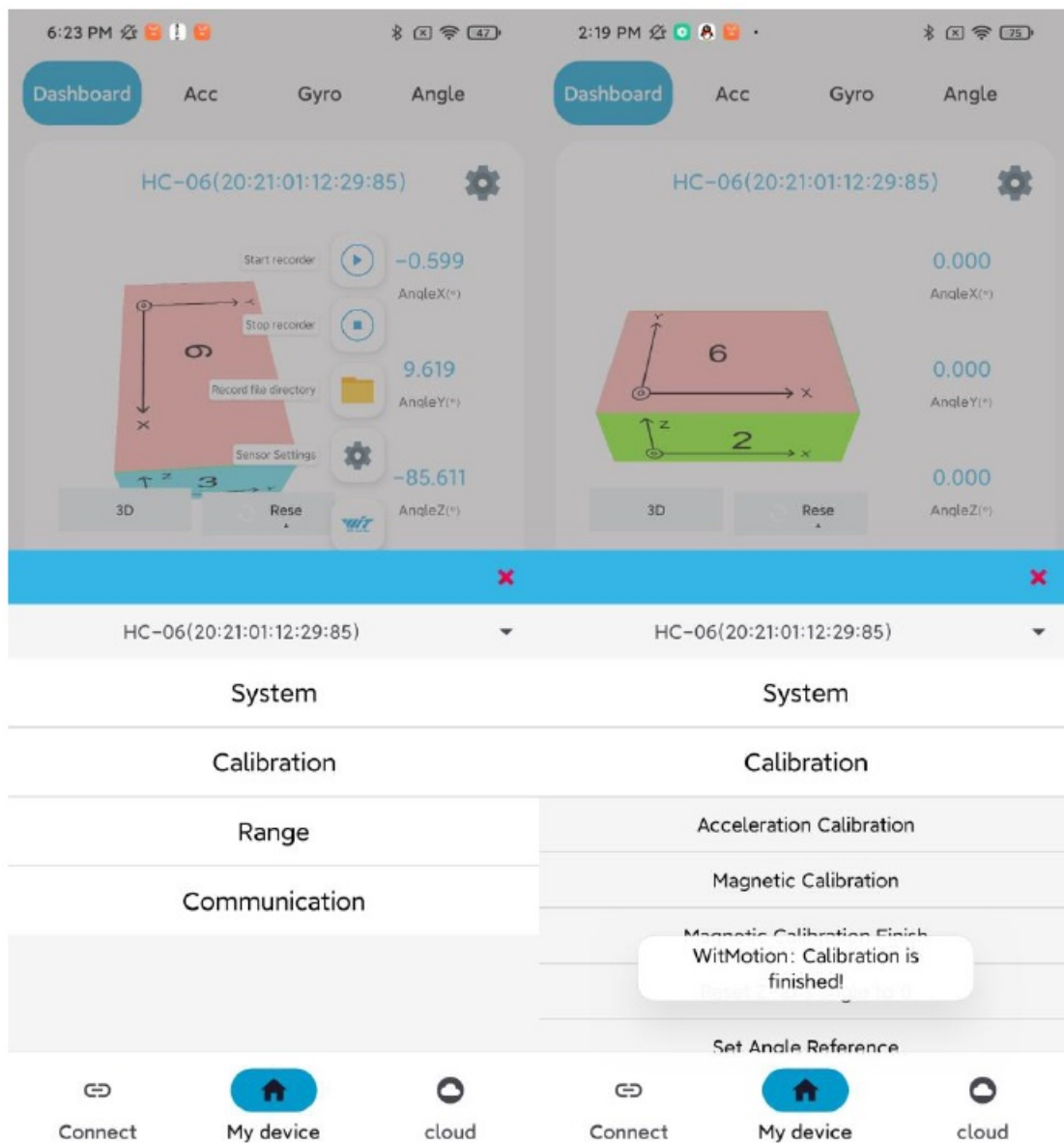
- Step 5. Open the WITMOTION APP, and choose BWT901 CL
- Step 6. Click Scan and select the paired Bluetooth device HC 06 (No need to input password)
- Step 7. The Blue LED light of sensor will keep on. Connection with APP is successful.



Calibration

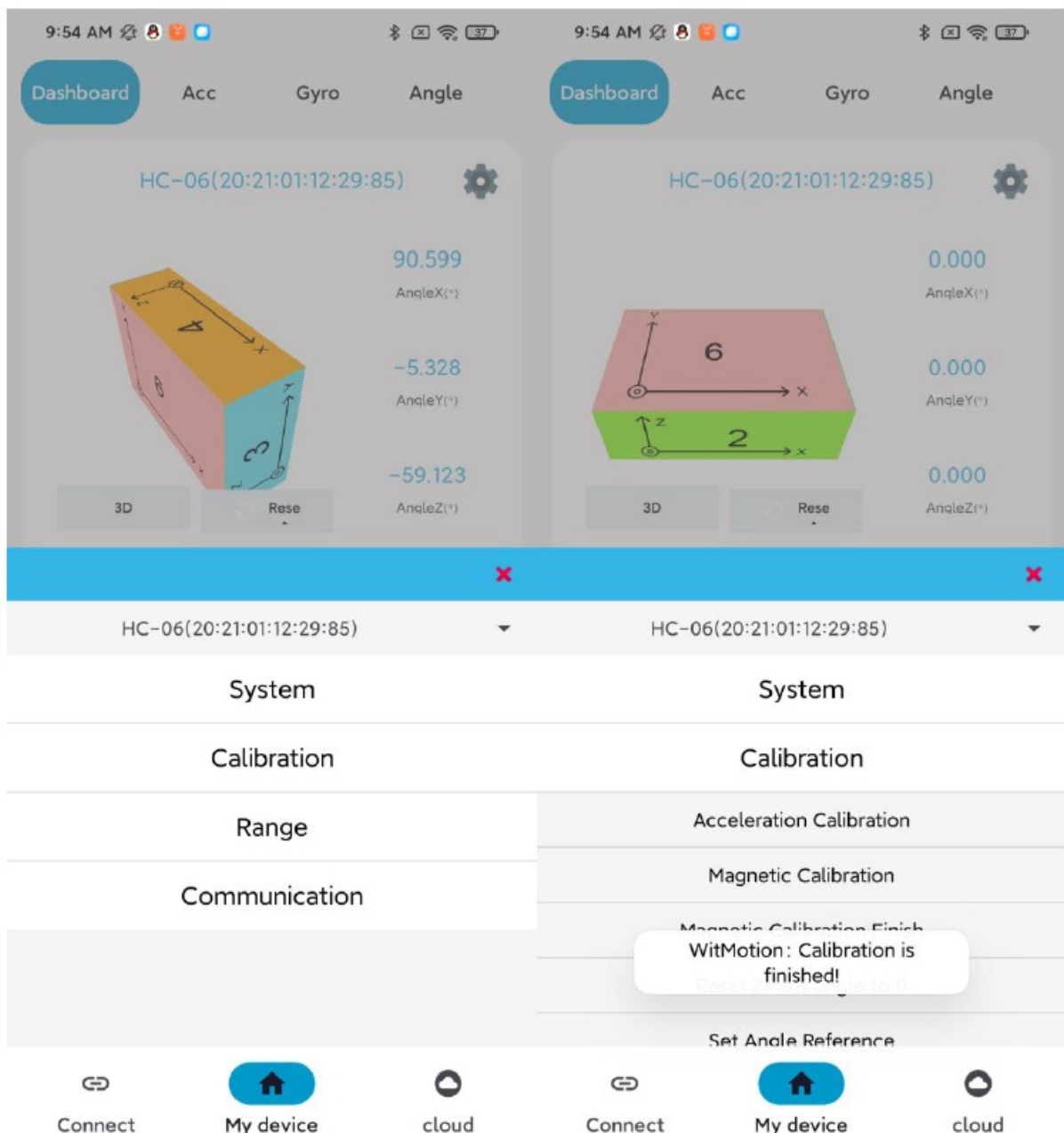
Acceleration Calibration

- Step 1. Keep the module horizontally stationary
- Step 2. Click the Calibration menu
- Step 3. Click the Acceleration Calibration and wait for 3 seconds
- Step 5. Check the result confirm if there is 1g on Z axis acceleration



MagneticFieldCalibration

- Step 1. Click the “Calibration” menu
- Step 2. Click the “Magnetic calibration” button
- Step 3. Slowly rotate the module 360° around X, Y, Z, 3-axis accordingly
- Step 4. After rotation, click “Finish”



- **Check the result:** The Z-axis angle will have less drift than before.
- **Notice:** If there is drift of Z-axis, please stay away from the objective that can create magnetic field interference.

Multi-connection

Link to the multi-connection video demo. <https://youtu.be/7M6R5Tjr8U>

- As with PC software, we recommend up to 4 devices multi-connection.
- Below is the different phones' actual measure distance.
- BD= Best distance; MD=Max distance

Phone	BWT901CL	Single device		Two devices	
		BD/m	MD/m	BD/m	MD/m
Samsung	Android 13		45m		
Honor	Android 12	29m	65m	23m	46m
Redmi	Android 10	11m	24m	12m	23m
vivo	Android 12	35m	67m	20m	30m
Oppo	Android 13	15m	37m	15m	36m
Xiaomi	Android 11	30m	50m		
iPhone	ios16.4.1	14m	24m		
Lenovo	Android 11	105m	125m	82m	105m

Use Instructions with iPhone

The new version of iOS APP has been launched. There will be many function coming out soon in future.

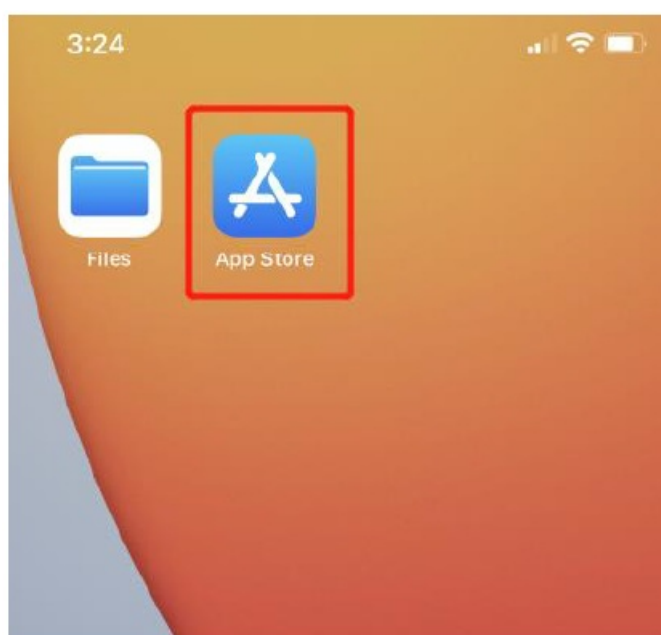
NOTICE:

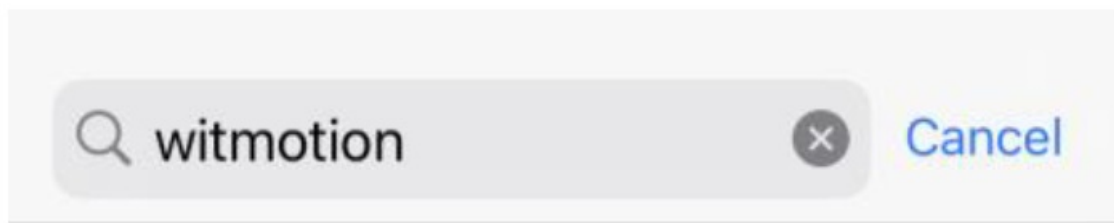
- The existing function of history recording is in instructions at present.
- Your understanding would be highly appreciated.
- If you phone comes with txt reader, the recorded file can be easily opened. A txt recorder like Micro Software.

https://www.youtube.com/playlist?list=PL43tdDrVL_VCgrQJTaODOhkkbmTkS1kMs

How to install

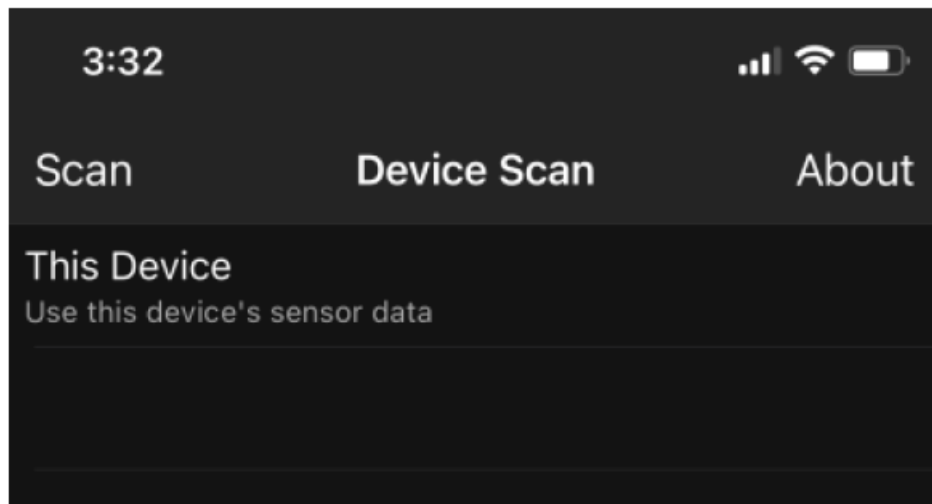
- Step 1. Search “WITMOTION” on iOS App Store, and install the APP.



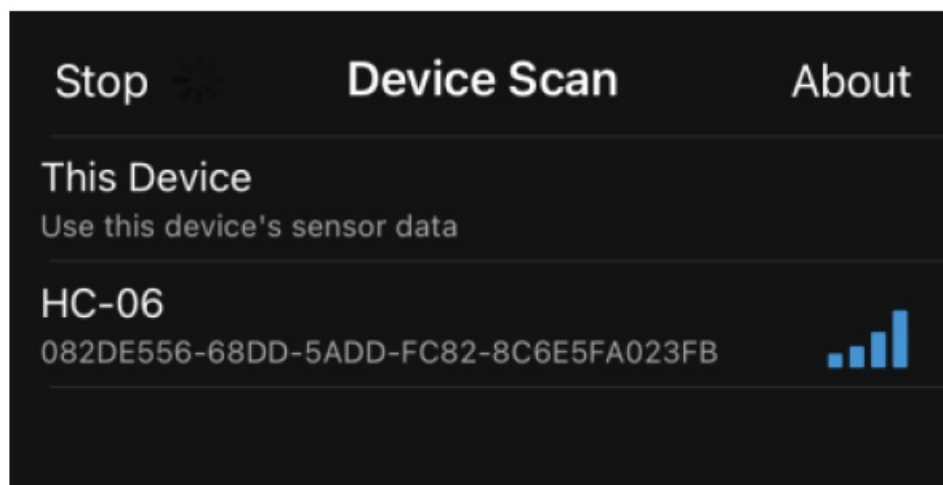


How to setup

- Step 1. Turn on the sensor and then click “Scan”

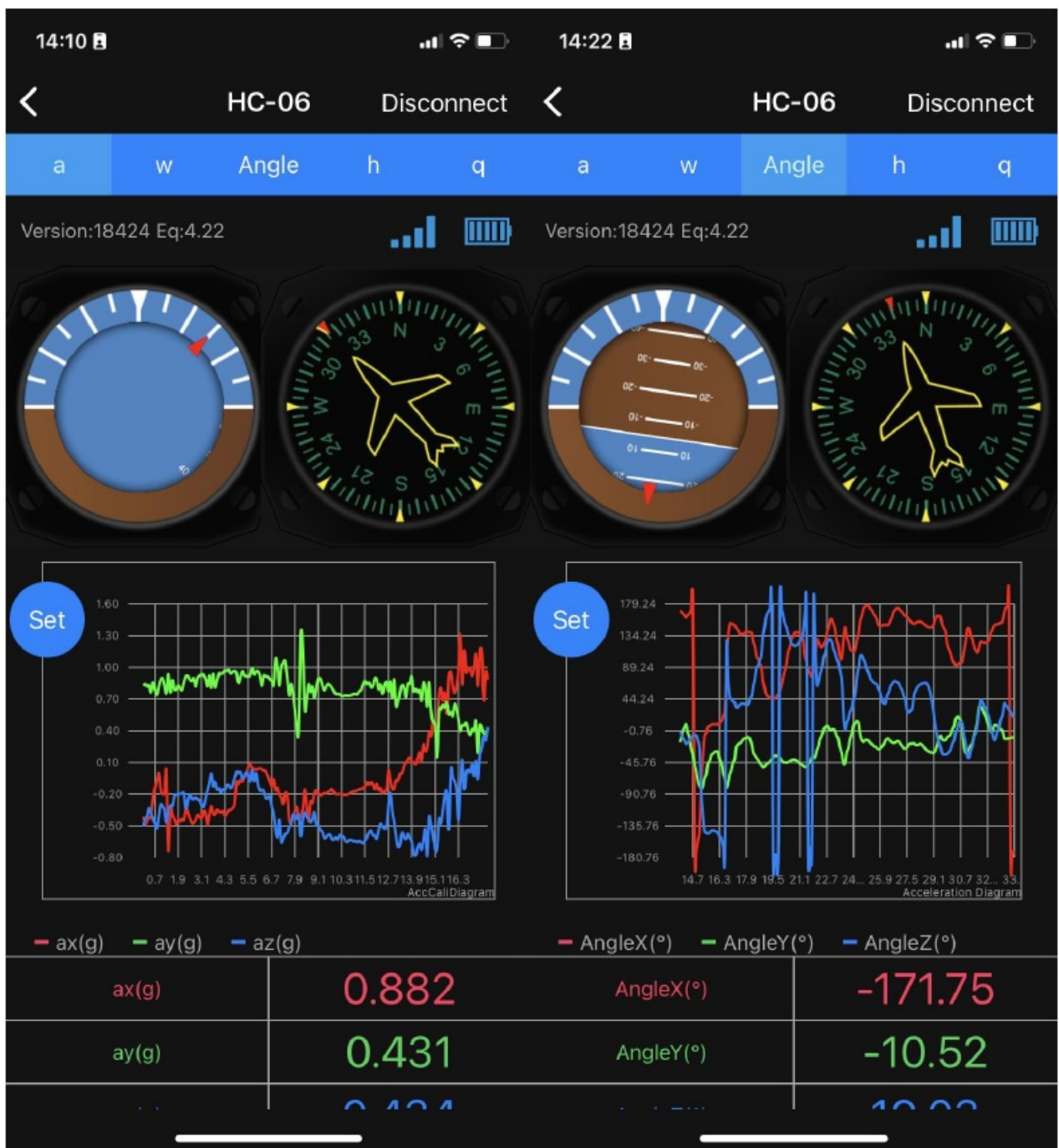


Sensor device ID will be recognized as HC-06 The second column is its SSID number.



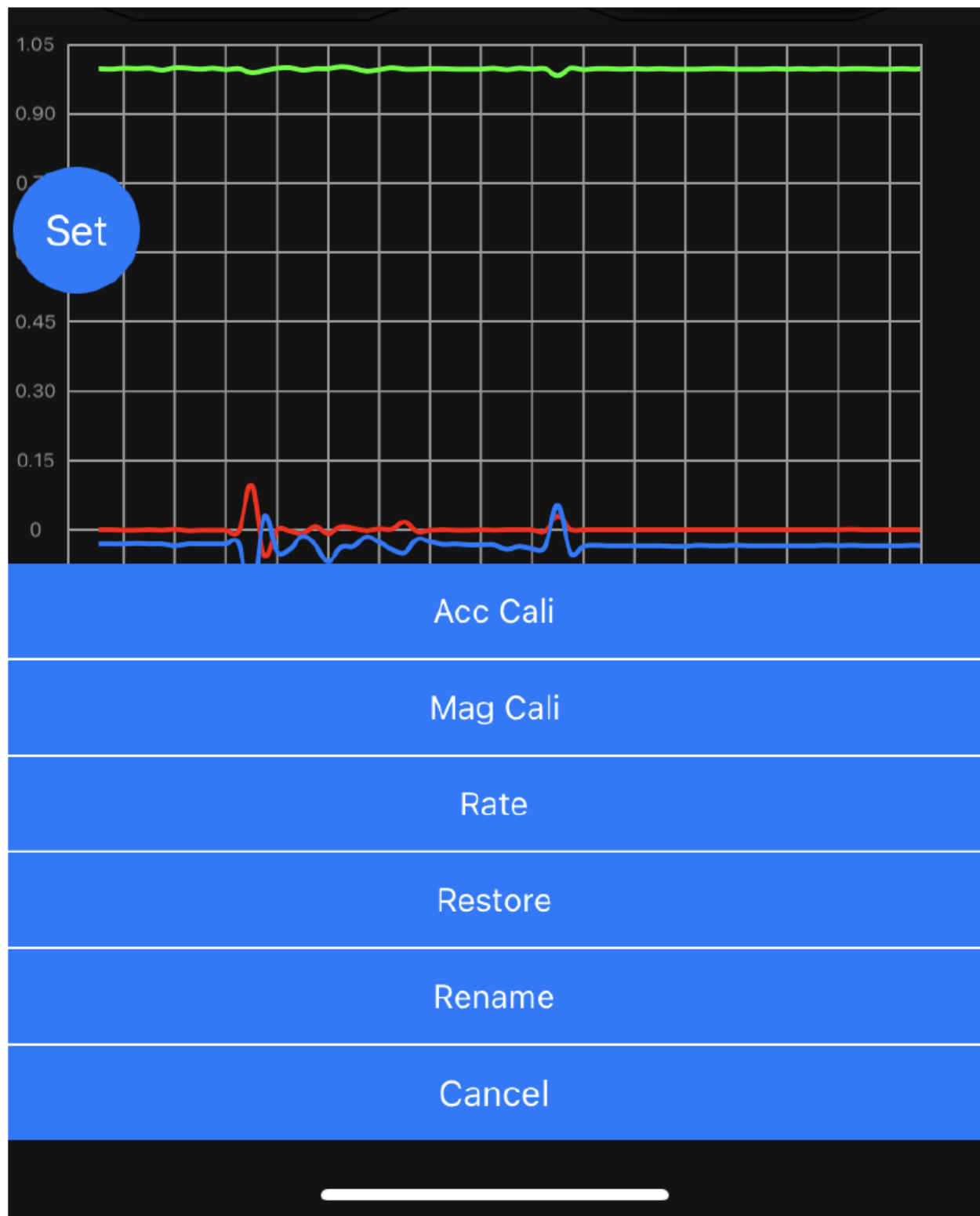
- Step 2. Select the device and the data will be online

Demo: Angle data curve



How to configure

- For menu setting and its introduction including button and functions setting, please referring to the Chapter 4.2.
- Click the button of “SET”, the menu will jump out automatically.



Data Recording

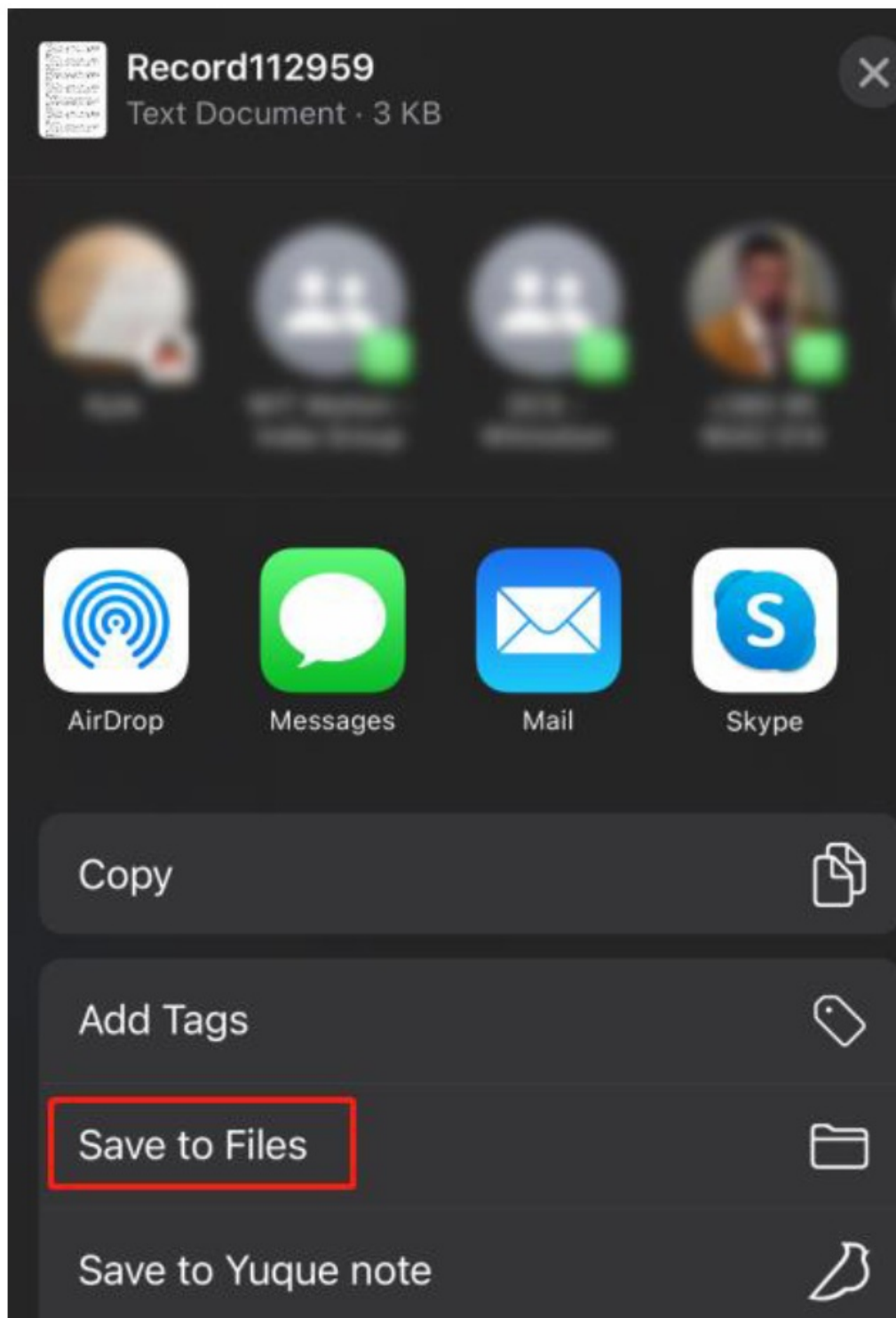
The data can be easily recorded by simply press the button of record. The recorded file can be txt format at present. You can send the record file to the computer and then paste the data to an excel file for intuitive reviewing. P.S If you meet any problem, please reach our team at support@wit-motion.com

- Step 1. Click “Record”
- Step 2. When you finish the record, click “End”.

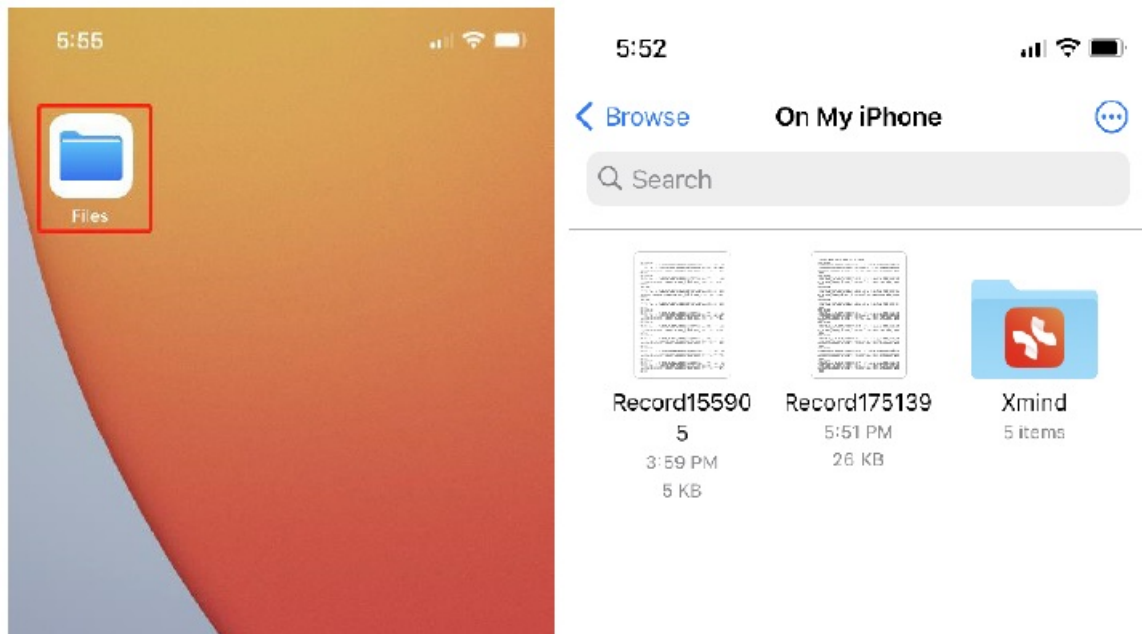


- Step3. Once you finished the record, you need to save the file. We recommend you choose the button "Save to Files", the file will save the on your mobile desktop folder.

PS: We tried all saving methods and found this method to be convenient.



- Step 4. Come back to your mobile desktop, click the “Files”, then you can check the records files.



- Step 5. The file will show this format.

5:52

Done **Record175139 (2 of 2)**

```
,h,-4632.0000,-6725.0000,-1620.0000
2023-04-20
17:51:39.2,a,-0.0063,0.0015,1.0073,ver,18414,eq,4.0600,rs
si,-61,T,30.0700,w,0.0000,0.0000,0.0000,Angle,0.5768,-0.
1208,-145.4755,q,0.2967,0.0005,-0.0051,-0.9549,h,-4648
.0000,-6703.0000,-1601.0000
2023-04-20
17:51:39.2,a,-0.0068,0.0020,1.0088,ver,18414,eq,4.0600,r
ssi,-61,T,30.0700,w,0.0000,0.0000,0.0000,Angle,0.5823,-
0.1208,-145.4700,q,0.2968,0.0005,-0.0052,-0.9549,h,-46
44.0000,-6714.0000,-1587.0000
2023-04-20
17:51:39.3,a,-0.0054,0.0015,1.0088,ver,18414,eq,4.0600,rs
si,-61,T,30.0300,w,0.0000,0.0000,0.0000,Angle,0.5823,-0
.1208,-145.4590,q,0.2969,0.0005,-0.0052,-0.9549,h,-463
2.0000,-6706.0000,-1565.0000
2023-04-20
17:51:39.4,a,-0.0059,0.0024,1.0078,ver,18414,eq,4.0600,rs
si,-61,T,30.0700,w,0.0000,0.0000,0.0000,Angle,0.5823,-0.
1208,-145.4535,q,0.2969,0.0005,-0.0052,-0.9549,h,-463
7.0000,-6709.0000,-1566.0000
2023-04-20
```

Use Instructions with PC

Connection Method

PC software is only compatible with Windows system.
BWT901CL Playlist

TypeC-Cable Connection

- Step 1. Connect the sensor with offered Type-Cable. Turn on the sensor and the blue light of the sensor flashes.

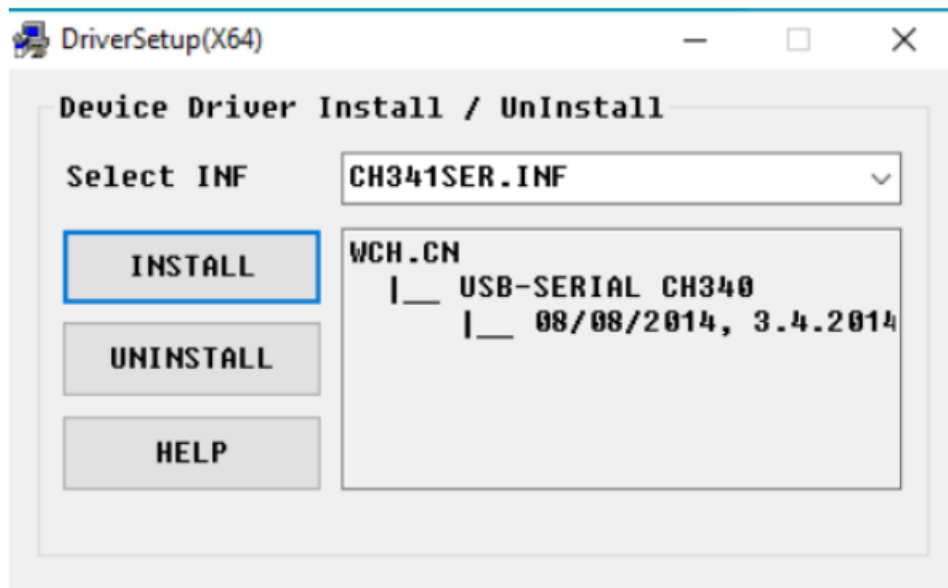
(Warm Reminder: If you wanna use a longer cable, it should be a standard Type-C data cable)

- Step 2. Unzip the software and install the driver CH340


<https://drive.google.com/file/d/1I3hl9Thsj9aXfG6U-cQLpV9hC3bVEH2V/view?usp=sharing>

- How to Install and update the CH340 driver

Click the “Uninstall” button first. Then click on the “Install” button.



How to verify your driver is working

1. To check that the CH340 enumerates to a COM port, you can open the device manager. You can click the Start or  (Windows) button and type “device manager to quickly search for the application.



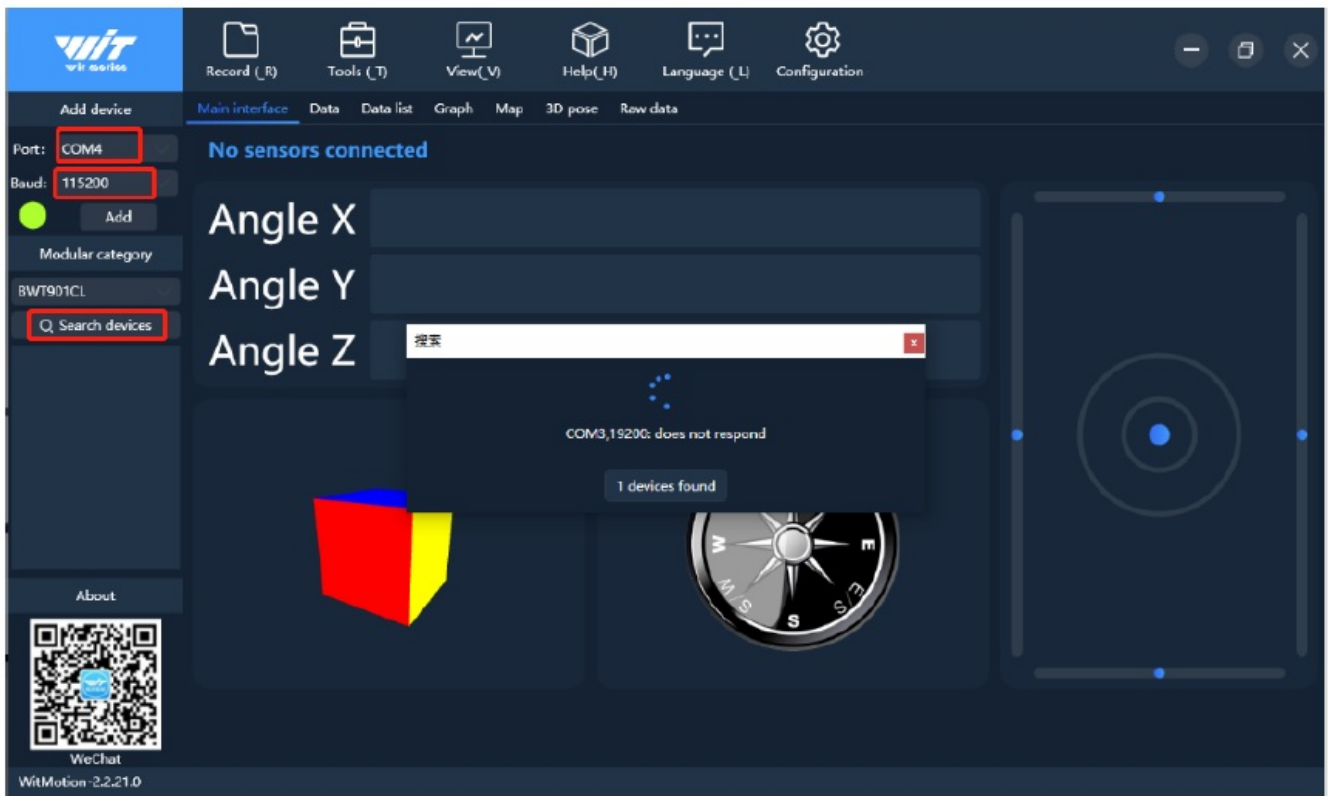
2. After opening the device manager, you will need to open the Ports (COM & LPT) tree. The CH340 should show up as USB-SERIAL CH340 (COM##). Depending on your computer, the COM port may show up as a different number.



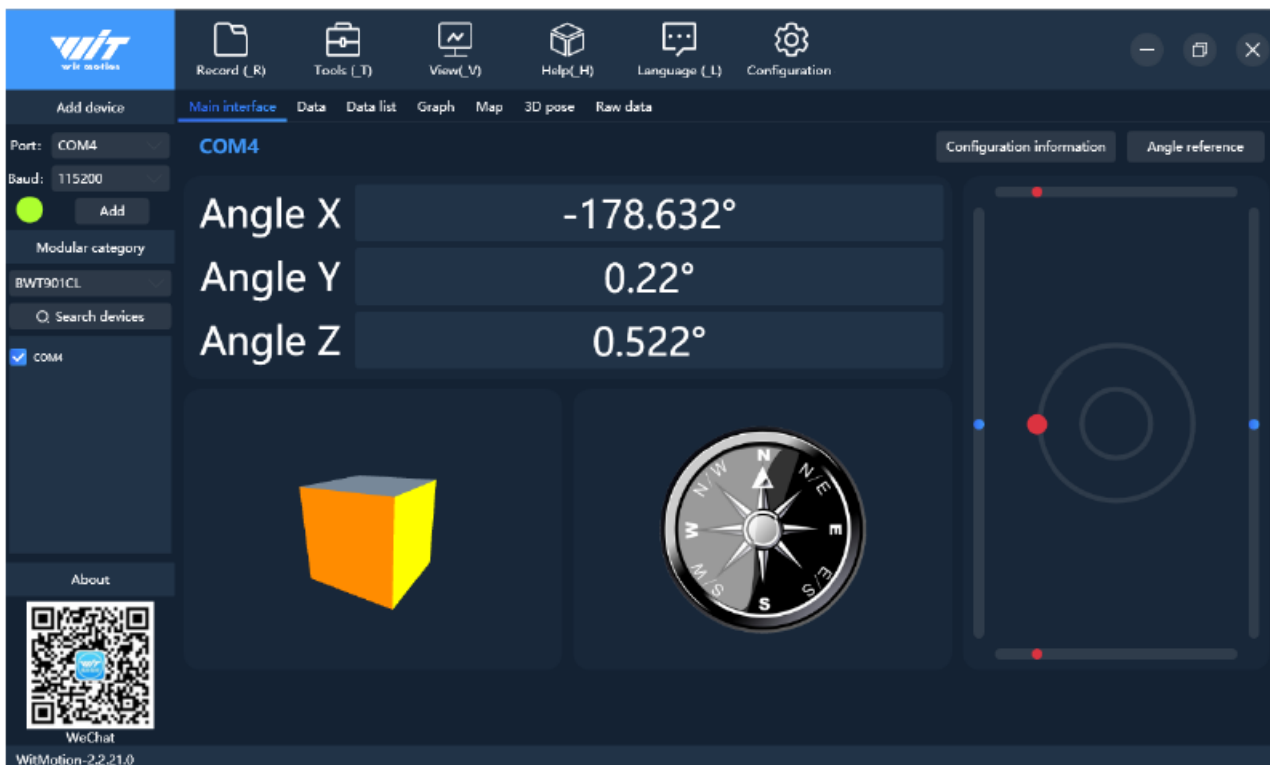
- Step 3. Open the software(WitMotion.exe)

Name	Date modified	Type	Size
AutoUpdateApp	9/27/2022 9:39 AM	File folder	
Bin	1/2/2023 4:44 PM	File folder	
Config	11/5/2022 5:08 PM	File folder	
Plugins	1/6/2023 5:14 PM	File folder	
Record	11/15/2022 10:18 AM	File folder	
Temp	11/22/2022 4:40 PM	File folder	
Hit WitMotion.exe to open software.txt	7/25/2022 9:24 AM	文本文档	4 KB
WitMotion.exe	1/6/2023 5:12 PM	Application	773 KB
WitMotion.exe.config	8/17/2022 7:12 PM	CONFIG File	1 KB

- Step 4. Choose the right "Port", Baud default 115200.enter the model name(BWT901CL), hit "Search devices".



Data will appear after auto-search finishes



Notice: If not successful, please operate manually

Choose the com port and baud rate 115200, data will be shown on the software.

USB-HID Connection

- Step 1. Open the software(WitMotion.exe)

Name	Date modified	Type	Size
AutoUpdateApp	9/27/2022 9:39 AM	File folder	
Bin	1/2/2023 4:44 PM	File folder	
Config	11/5/2022 5:08 PM	File folder	
Plugins	1/6/2023 5:14 PM	File folder	
Record	11/15/2022 10:18 AM	File folder	
Temp	11/22/2022 4:40 PM	File folder	
Hit WitMotion.exe to open software.txt	7/25/2022 9:24 AM	文本文档	4 KB
WitMotion.exe	1/6/2023 5:12 PM	Application	773 KB
WitMotion.exe.config	8/17/2022 7:12 PM	CONFIG File	1 KB

- Step 2. Insert the USB-HID adapter into the USB slot of the computer the blue light of HID adapter flashes)



- Step 3. Install the driver CH340 and confirm the “com port” in device manager

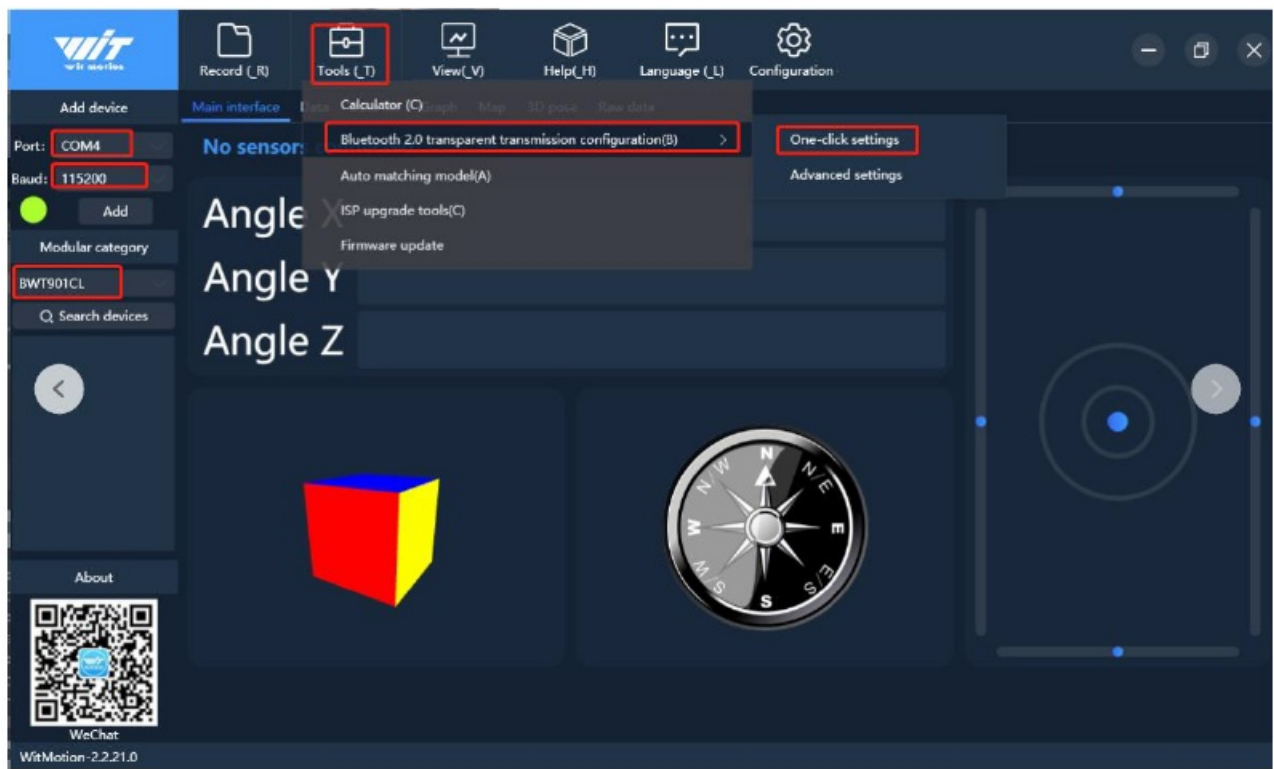
<https://drive.google.com/file/d/1I3hl9Thsj9aXfG6U-cQLpV9hC3bVEH2V/view?usp=sharing>

How to Install and update the CH340 driver

Please kindly refer to Chapter 5.1.1 TypeC-Cable Connection, content of installing or updating CH340 driver

- Step 4. Turn on the sensor and the blue light of the sensor flashes
- Step 5. Open the software. The default baud rate is 115200. Choose the right Port, enter the purchased product model, then hit

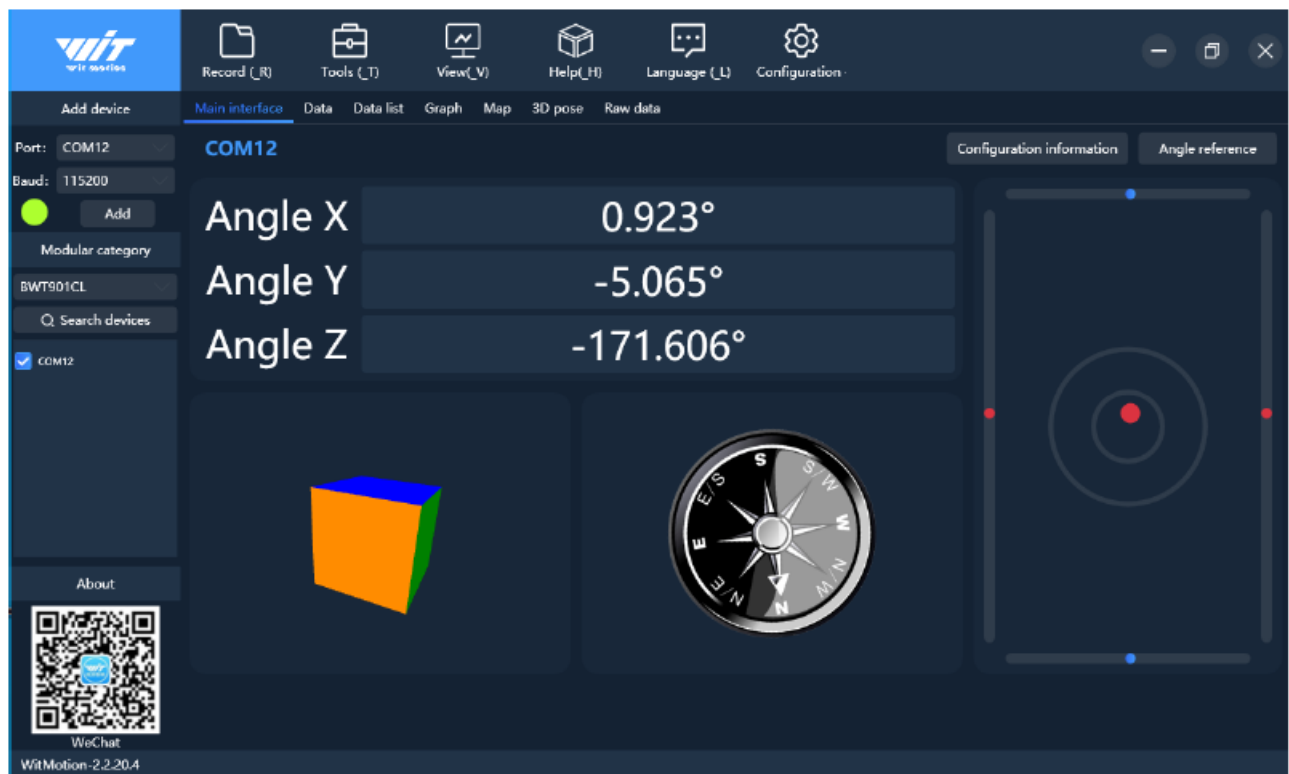
Tools<Transmission Configuration<One-click settings.



- Step 6. the software will be set up unbinding automatically and search devices successfully (Bluetooth Pairing process)
- Step 7. Wait till the sensor's blue LED light remains on—means pairing succeeded

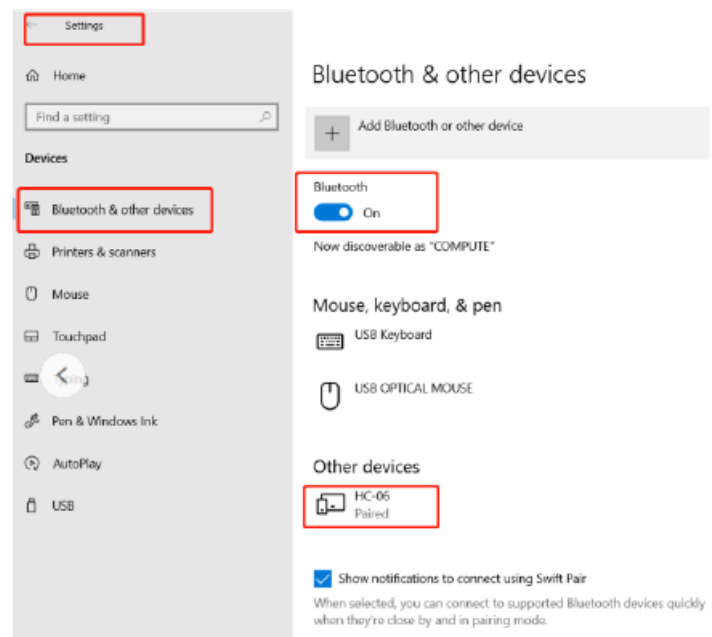


- Step 8. Data will appear once the auto-search finishes

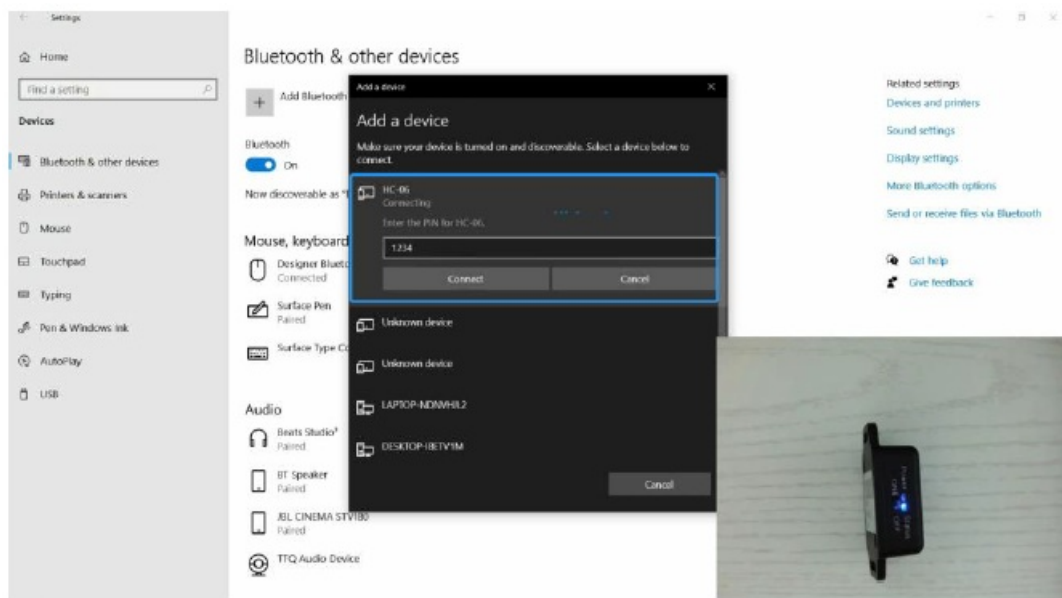


PC's Bluetooth Connection

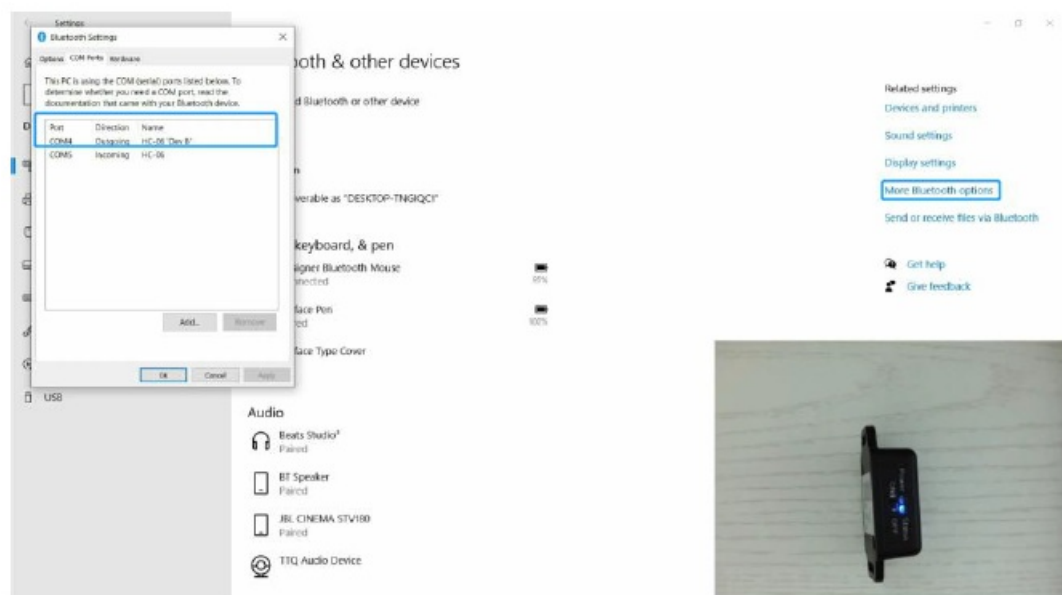
- Step 1. Turn on the computer's Bluetooth



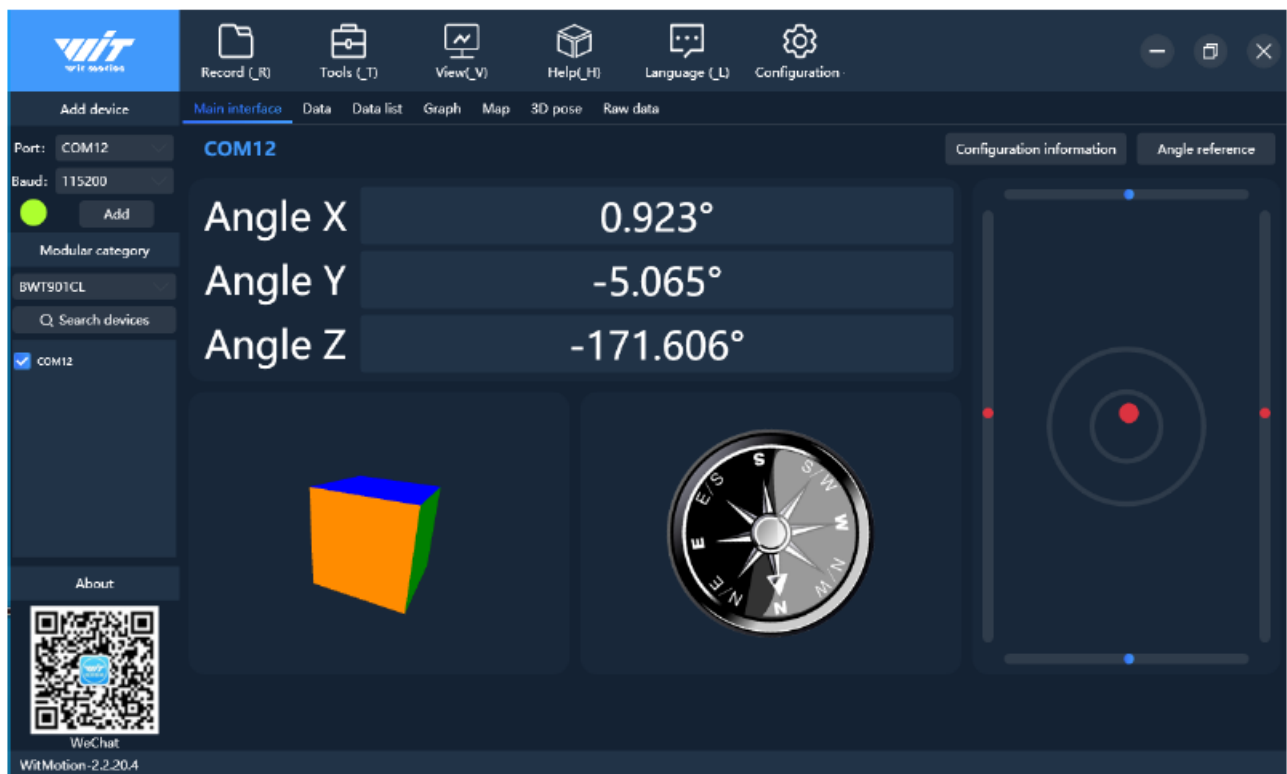
- Step 2. Turn on the sensor
- Step 3. Search HC-06 device and input pairing password, 1234



- Step 4. Confirm the “outgoing com port” on “More Bluetooth Options” page



- Step 5. Open software (WitMotion.exe) and choose the correct com port and keep the baud 115200.
- Step 6. Data will appear once the automatic search finishes.



Instructions of 2023 New Software

In order to improve the user experience and our customer service, we develop a new version PC software.

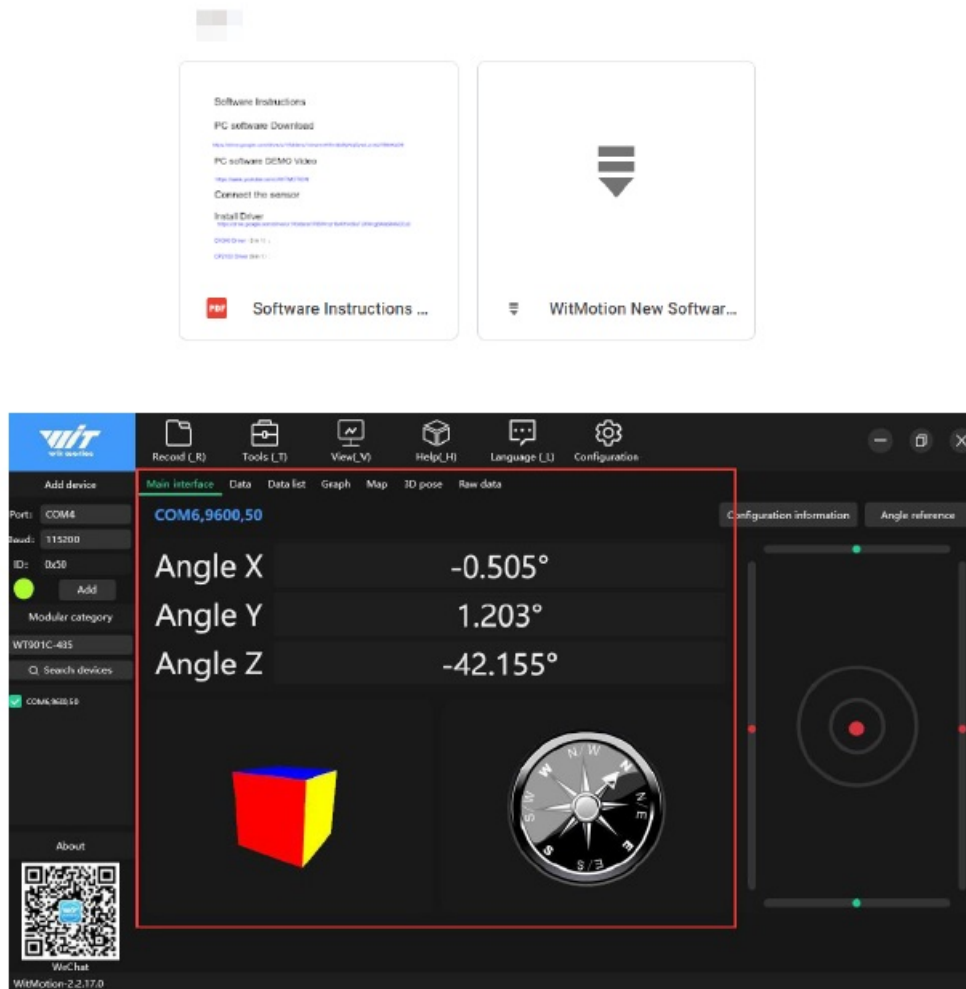
Link to check the PC Software connection video demo.

Video demo

Below is the new software and universal instruction download link.

https://drive.google.com/drive/folders/1dnwmnH7mi4zBpNqDywLzrzsv7BfeKaD9?usp=share_link.

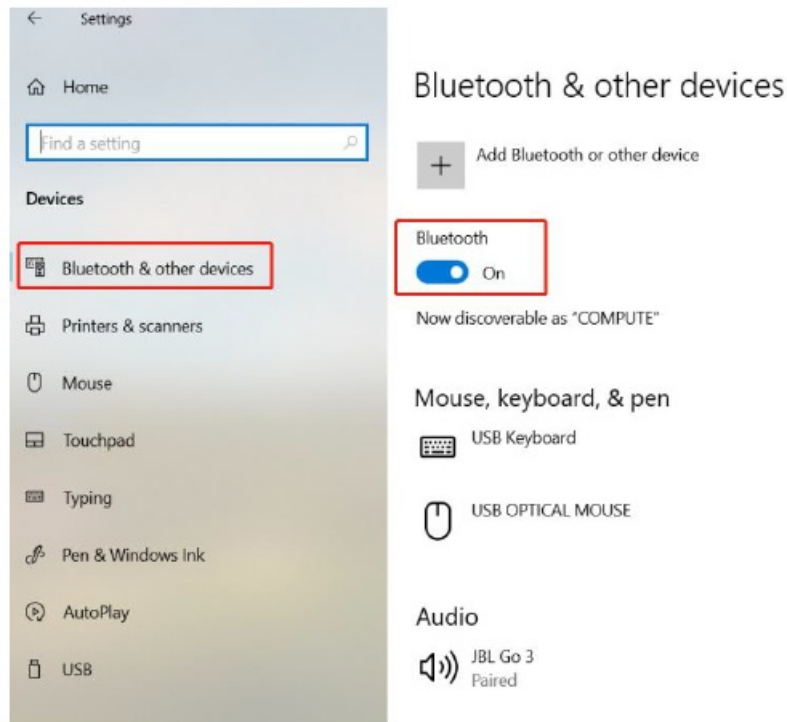
WITMOTION New Software(Universal)



Multiple-Connection Instructions

The BWT901CL can be connected via laptop's Bluetooth. It is required to use the WitMotion New Software. The maximum is up to 4 units in the same time via connection.

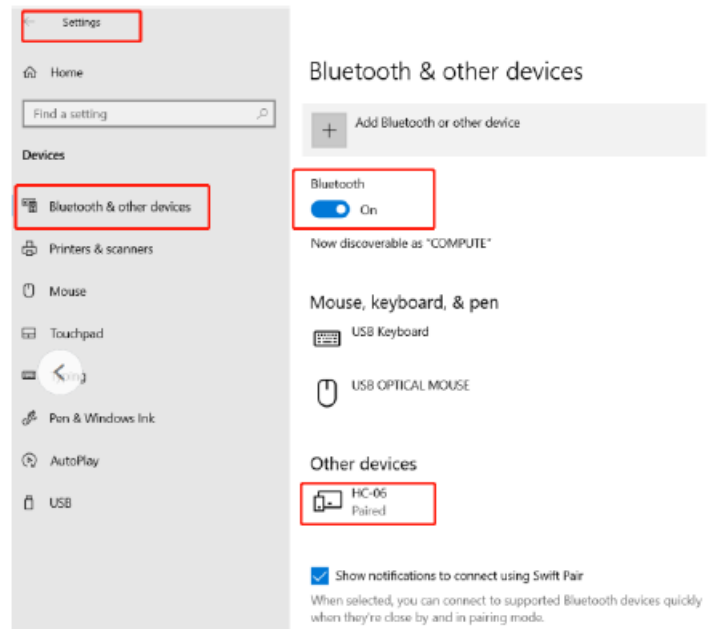
PS. It is required to turn on the laptop's Bluetooth.



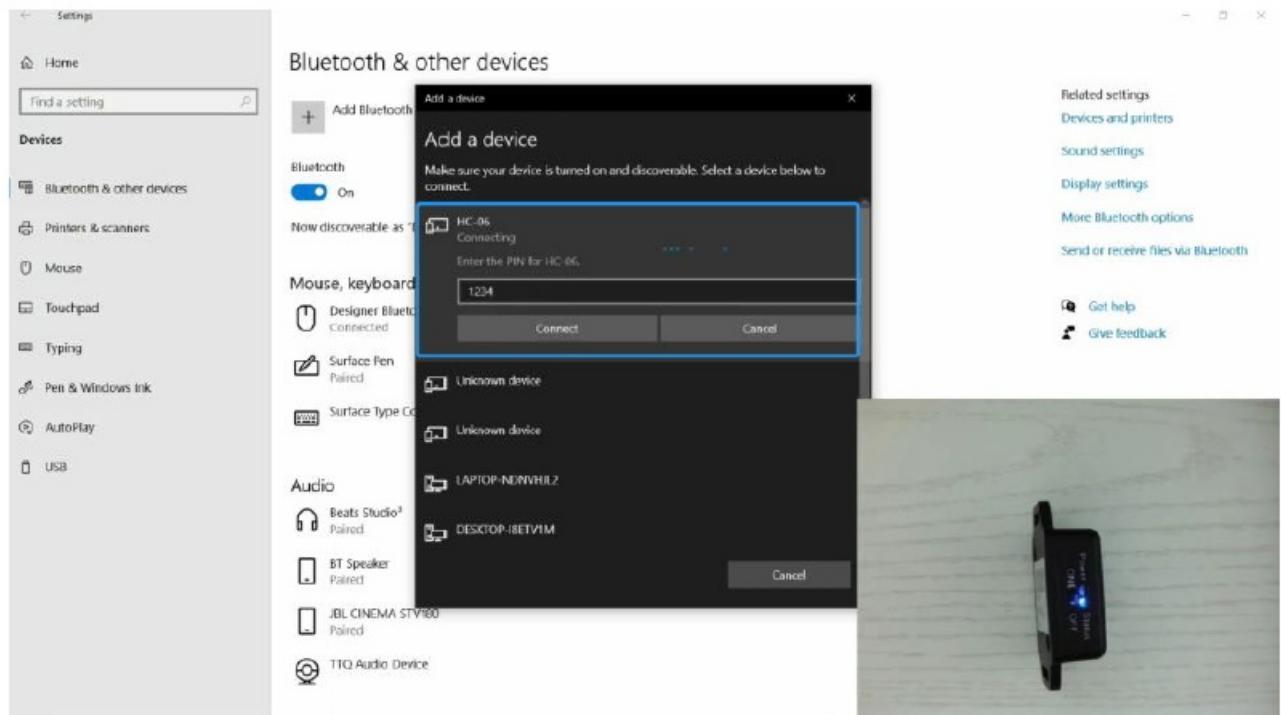
- Because Bluetooth is limited, sometimes the data lag when you're using Bluetooth to multi-connect, and the Bluetooth range will be less. Of course, the different phone has a different range.
- If you need longer Bluetooth range when multi-connection (up to 30m), please use our USB-HID adapter (refer to the chapter 4.1.2 USB-HID Connection)

Connection Instructions

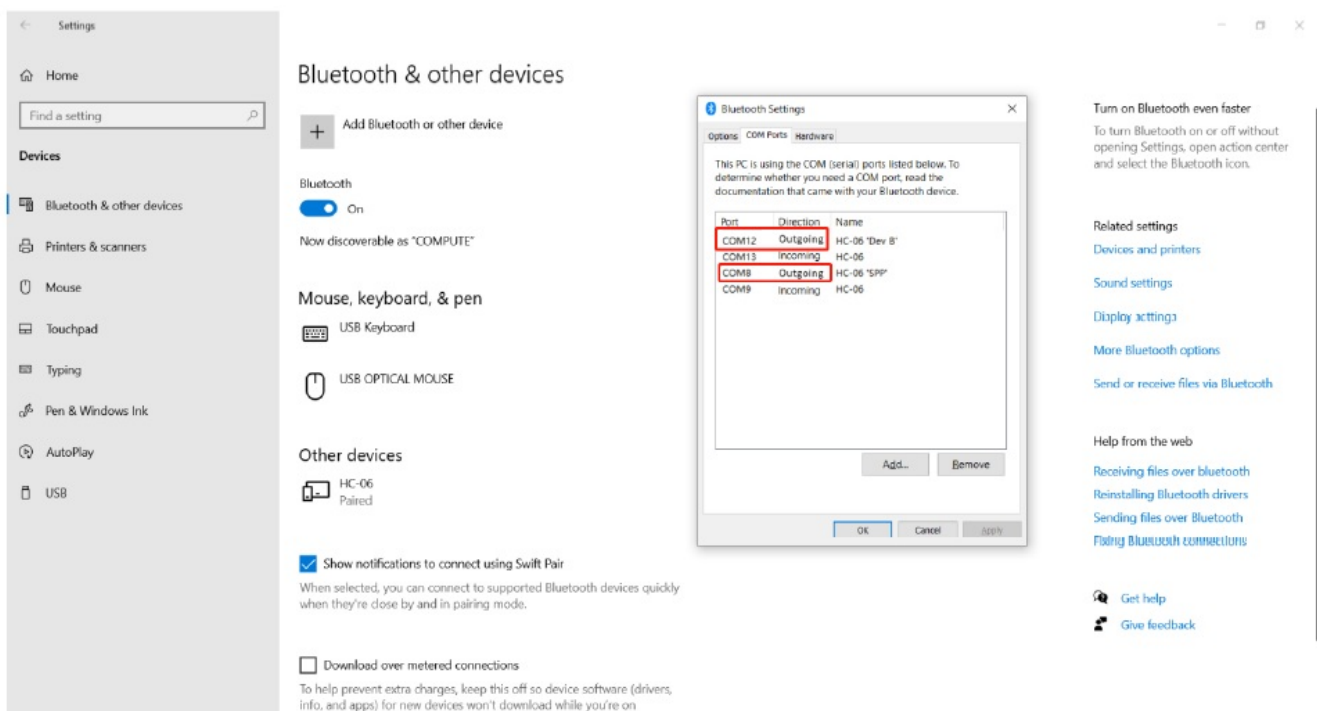
- Step 1. Install WitMotion New Software (Download link). Step 2. Turn on the computer's Bluetooth



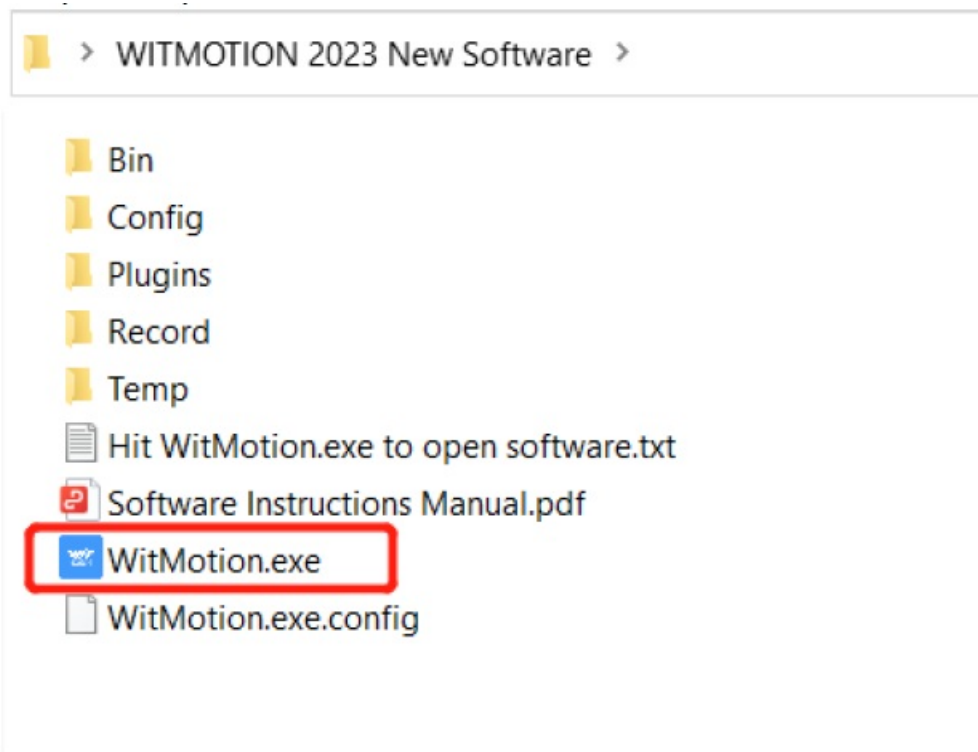
- Step 3. Turn on the sensor
- Step 4. Search HC-06 device and input pairing password, 1234



- Step 4. Confirm the “outgoing com port” on “More Bluetooth Options” page, and check the Port corresponding to Direction is “Outgoing”.



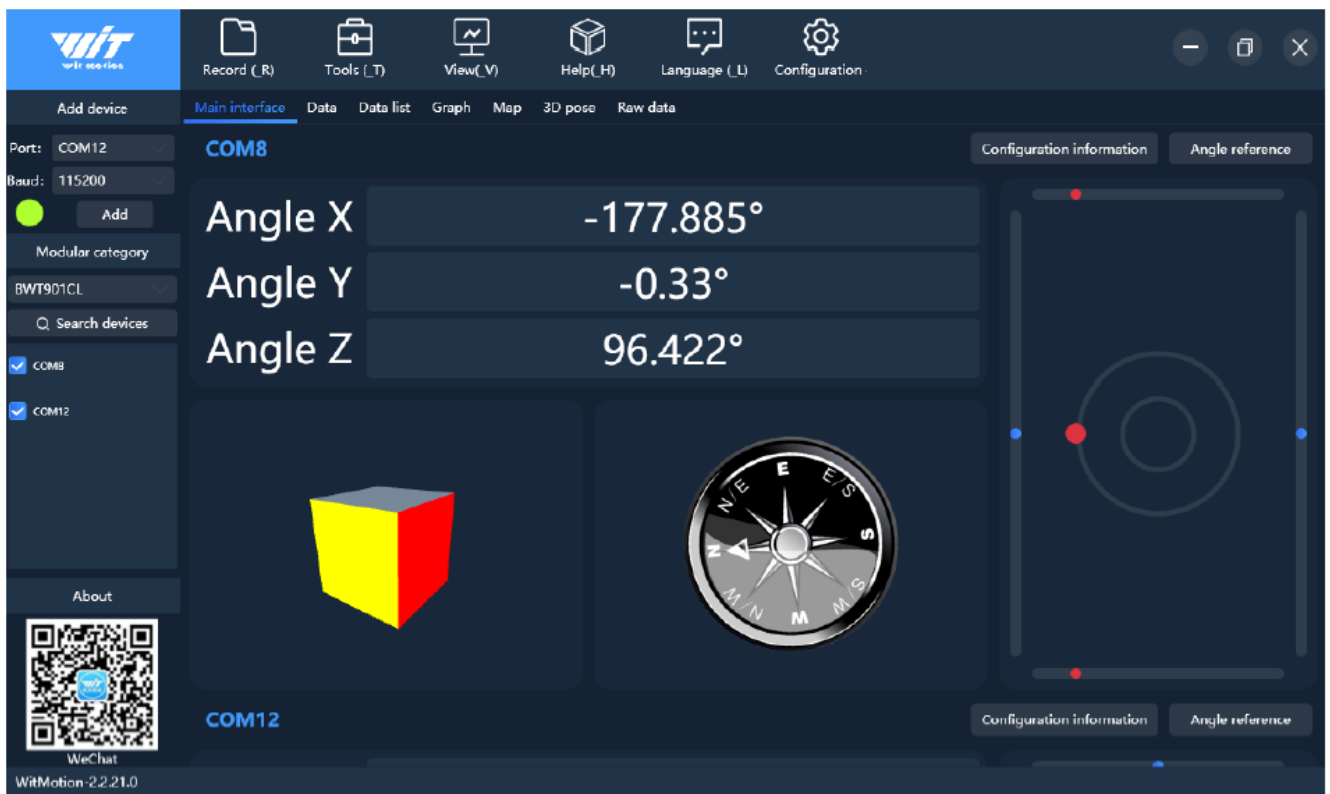
- Step 5. Open the WitMotion New Software and the laptop's Bluetooth.



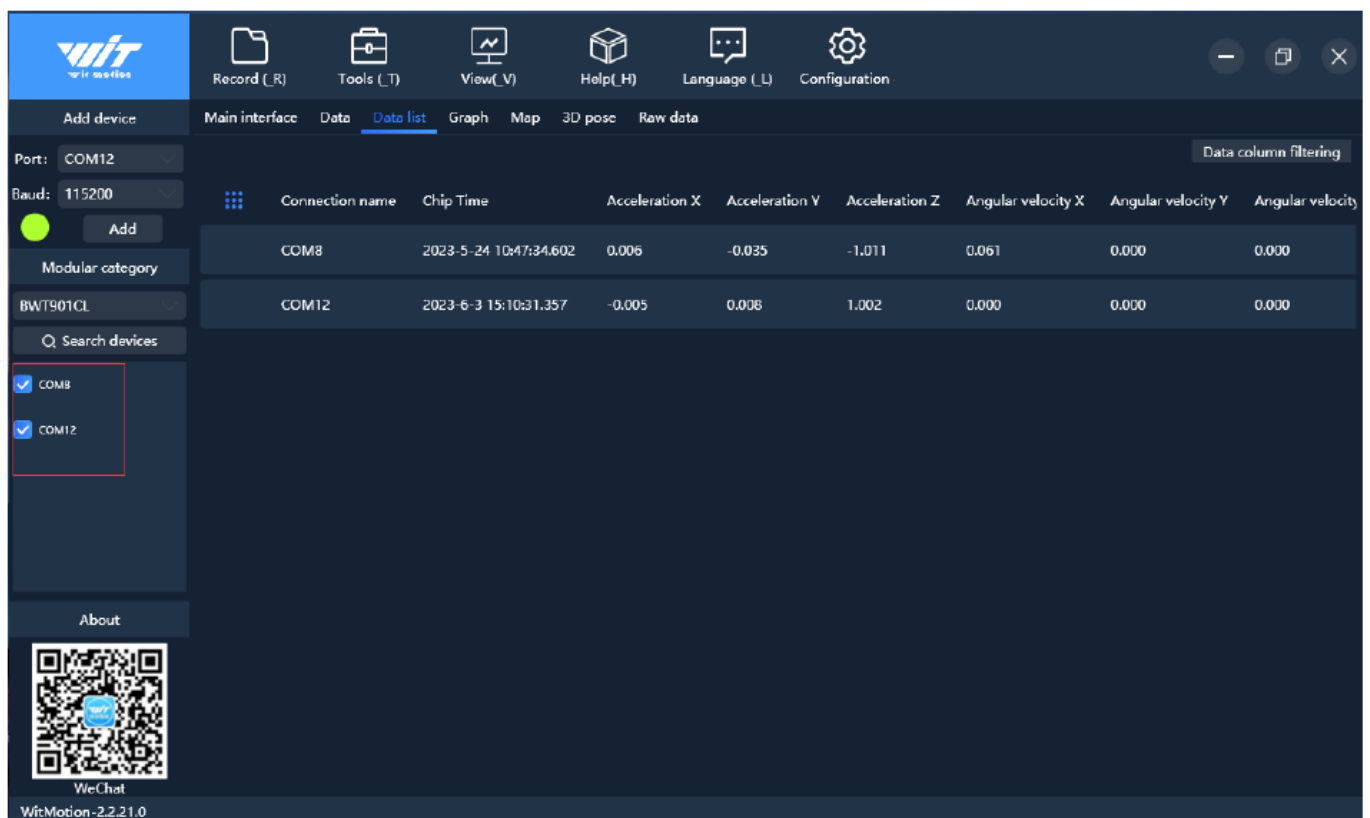
- Step 6. Choose module "BWT901CL", and choose the right Port, then click 'Add'.



- Step 7. Wait for a minute, you can see the data.



PS: If the interface hasn't show the data, select the device "COM+Number".



Noted:

In standby mode, the sensor flashes quickly. Once the sensor was connected successfully, the blue light will start flashing slowly.

Software Setting

For software introduction including button and functions setting, please referring to the below link.

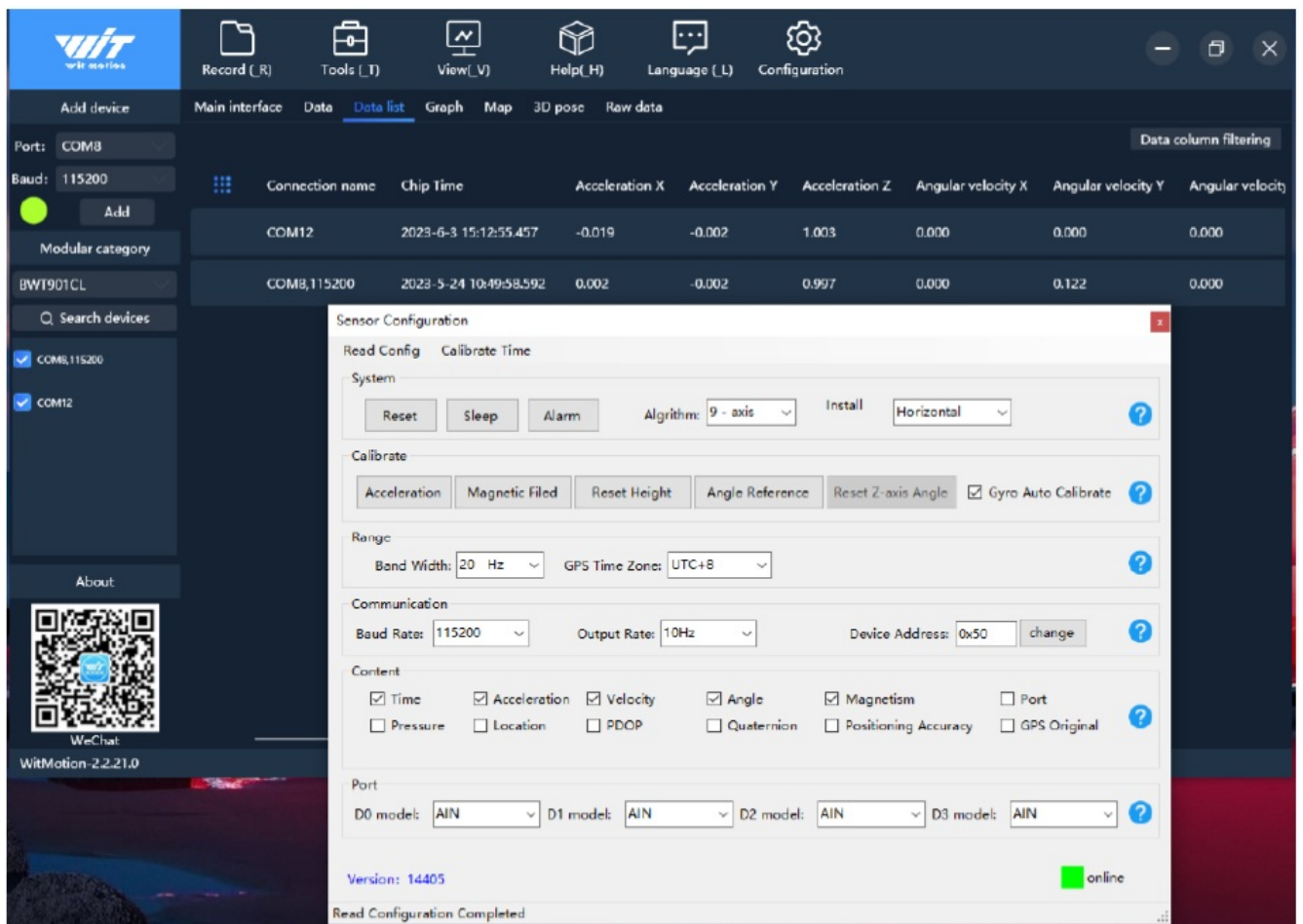
Data Configuration

Click the corresponding sensor, you can configure the individual sensor separately, record and so on.

Port: COM8
Baud: 115200
Add
Modular category
BWT901CL
Search devices
COM12
COM8
About
WeChat
WitMotion-2.2.21.0

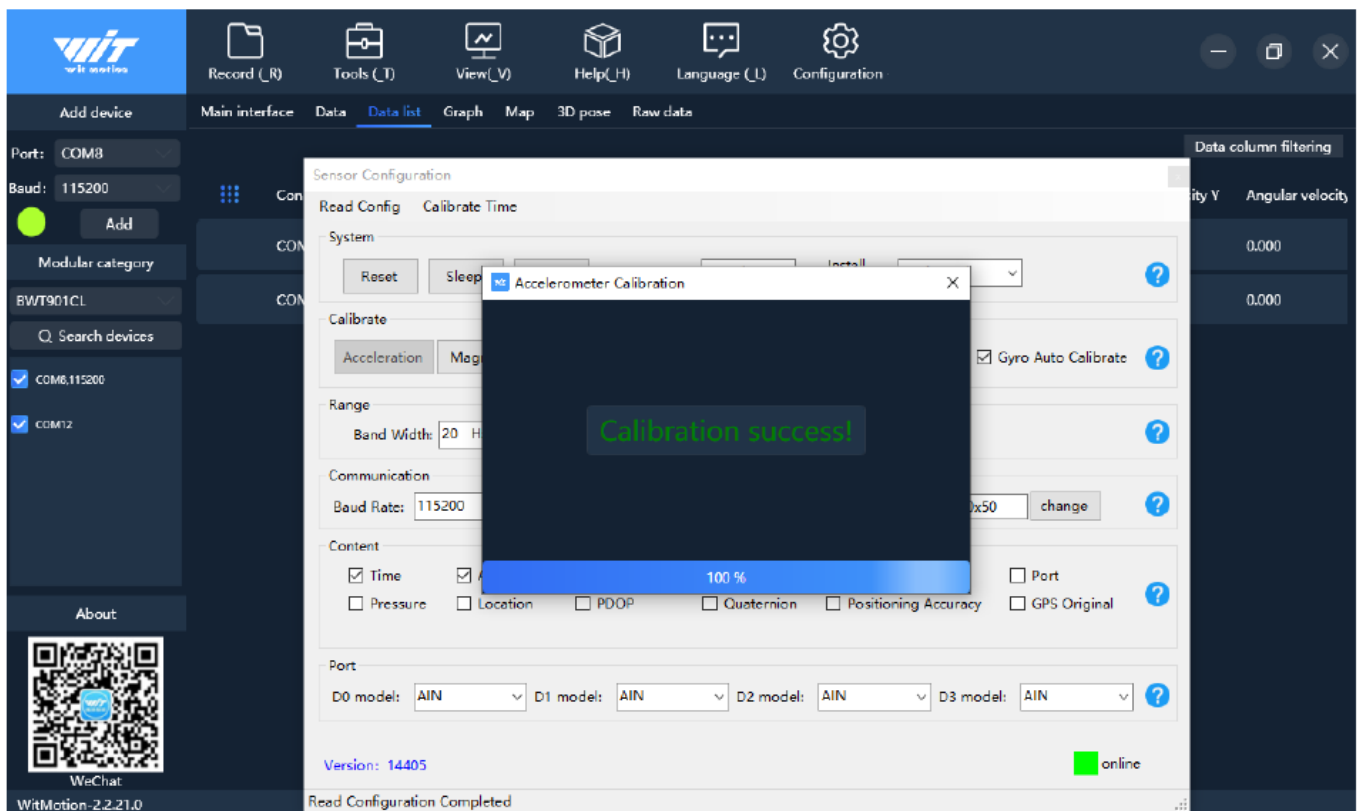
Connection name	Chip Time	Acceleration X	Acceleration Y	Acceleration Z	Angular velocity X	Angular velocity Y	Angular velocity Z
COM12	2023-6-3 14:59:19.057	-0.007	0.010	1.003	0.000	0.000	0.000
COM8	2023-5-24 10:36:21.932	0.004	-0.038	-1.011	0.000	0.000	0.000

- Step 1. Click the config as you request.
- Step 2. The software will auto-save the config.



Calibrate

It is similar with the method of the calibration of the standard PC software. If you don't know how to configure the parameter, please click "question mark".



Curve Display

There are various choices on the data details, such as acceleration, angle data and so on.

Demo 1:

You can switch views as you like.







Demo 2:

The screenshot displays the WitMotion software interface with the 'Data list' tab selected. The interface features a top menu bar with options: Record (R), Tools (T), View (V), Help (H), Language (L), and Configuration. Below the menu is a toolbar with 'Add device', 'Main interface', 'Data', 'Data list', 'Graph', 'Map', '3D pose', and 'Raw data'. The left sidebar contains settings for 'Port' (COM8), 'Baud' (115200), and a list of devices (COM8,115200 and COM12) with checkboxes. The main area shows a table of recorded data. The table has columns for 'Connection name', 'Chip Time', 'Acceleration X', 'Acceleration Y', 'Acceleration Z', 'Angular velocity X', 'Angular velocity Y', and 'Angular velocity'. The bottom status bar indicates 'WitMotion-2.2.21.0'.

Connection name	Chip Time	Acceleration X	Acceleration Y	Acceleration Z	Angular velocity X	Angular velocity Y	Angular velocity
COM12	2023-6-3 15:15:12.747	-0.002	0.008	0.999	0.000	0.000	0.000
COM8,115200	2023-5-24 10:52:18.042	-0.014	-0.009	0.995	0.000	0.000	0.000

Data Recording


- Step 1. Click “Record”.
- Step 2. Click “Stop”.
- Step 3. Extract the recorded file.
- Step 4. Paste all the recorded data packet to a Excel file for intuitive reviewing.

	BWT901CL_1685819431238	6/3/2023 7:10 PM	BIN 文件	22 KB
	BWT901CL_1685819431238.play	6/3/2023 7:10 PM	PLAY 文件	331 KB
	BWT901CL_1685819431238_1	6/3/2023 7:10 PM	XLS 工作表	70 KB
	BWT901CL_1685819431238_1	6/3/2023 7:10 PM	文本文档	63 KB

时间	设备名称	Chip Time	Accelerat	Accelerat	Accelerat	Angular	Angular	Angular	Angle X	Angle Y	Angle Z	Magnetic	Magnetic	Magnetic	Temperatu	Pr
19:10:31	COM8_1152	2023-5-2	-0.679	0.239	0.585	-119.812	-36.377	-14.465	-3.455	61.699	-147.618	7.6	-71.583	-32.867	40.33	
19:10:31	COM8_1152	2023-5-2	-0.688	0.054	0.542	-115.601	-47.729	-6.104	-4.449	61.216	-147.513	7.042	-71.225	-32.458	40.52	
19:10:31	COM8_1152	2023-5-2	-0.847	-0.055	0.544	-101.807	-26.978	-9.216	-5.592	60.941	-147.744	6.65	-70.592	-32.067	40.33	
19:10:31	COM8_1152	2023-5-2	-0.829	-0.056	0.512	-107.056	-15.93	1.831	-6.509	60.804	-147.706	6.392	-69.808	-31.642	40.39	
19:10:31	COM8_1152	2023-5-2	-0.888	-0.049	0.508	-99.67	-1.892	-2.747	-7.493	60.749	-147.805	6.208	-69.233	-31.133	40.45	
19:10:31	COM8_1152	2023-5-2	-0.832	0.379	0.533	-140.686	18.311	19.287	-8.416	60.941	-147.607	6.058	-68.867	-30.458	40.33	
19:10:31	COM8_1152	2023-5-2	-0.736	-0.065	0.581	-84.839	26.184	13.611	-9.108	61.188	-147.431	5.942	-68.633	-29.8	40.33	
19:10:31	COM8_1152	2023-5-2	-0.799	-0.048	0.523	-75.195	47.363	22.705	-9.58	61.655	-147.228	5.808	-68.458	-29.125	40.33	
19:10:31	COM8_1152	2023-5-2	-0.878	-0.04	0.5	-66.04	75.378	27.466	-9.915	62.364	-146.992	5.667	-68.342	-28.317	40.45	
19:10:31	COM8_1152	2023-5-2	-0.914	-0.117	0.509	-58.228	116.272	35.4	-10.19	63.43	-146.75	5.492	-68.242	-27.475	40.33	
19:10:31	COM8_1152	2023-6-3	0.462	0.16	0.876	-5.249	-31.921	28.259	14.31	-23.516	39.216	10.486	14.406	-44.59	35.69	
19:10:31	COM8_1152	2023-5-2	-0.852	-0.03	0.401	-35.339	152.344	38.025	-10.305	64.929	-146.585	5.258	-67.383	-26.625	40.33	
19:10:31	COM8_1152	2023-5-2	-0.872	-0.04	0.341	-10.62	170.349	45.105	-10.118	66.61	-146.371	5.383	-66.692	-25.792	40.26	
19:10:31	COM8_1152	2023-5-2	-0.904	-0.032	0.28	6.348	199.89	56.274	-9.558	68.560	-145.953	5.742	-66.9	-24.942	40.45	
19:10:31	COM8_1152	2023-5-2	-0.91	-0.011	0.247	26.855	222.656	59.998	-8.646	70.774	-145.371	5.9	-67.008	-24.017	40.2	
19:10:31	COM8_1152	2023-5-2	-0.92	-0.044	0.211	49.683	240.845	62.860	-7.289	73.152	-144.575	6.333	-67.008	-22.958	40.45	
19:10:31	COM8_1152	2023-5-2	-0.916	0.073	0.167	72.937	259.827	72.144	-5.026	75.729	-143.047	6.908	-66.942	-21.883	40.33	
19:10:31	COM8_1152	2023-5-2	-0.944	0.339	0.222	93.506	281.962	66.772	-1.851	78.47	-140.856	7.25	-66.842	-20.817	40.26	
19:10:31	COM8_1152	2023-5-2	-1.039	0.075	0.041	136.78	295.959	68.115	3.098	81.304	-137.263	8.15	-67.092	-19.775	40.45	
19:10:31	COM8_1152	2023-5-2	-1.144	0.105	0.011	152.344	352.783	83.13	15.04	84.452	-126.898	8.725	-67.55	-18.717	40.39	
19:10:31	COM8_1152	2023-5-2	-1.116	0.078	-0.068	167.847	417.053	87.219	60.529	87.27	-83.106	9.025	-67.817	-17.575	40.39	
19:10:31	COM8_1152	2023-5-2	-1.11	0.052	-0.064	175.964	435.669	91.003	132.632	85.594	-12.777	9.933	-67.942	-16.433	40.39	
19:10:31	COM8_1152	2023-6-3	-0.147	0.871	0.716	618.347	226.318	-266.907	45.967	-15.496	33.569	10.584	0.49	-46.746	35.74	
19:10:31	COM8_1152	2023-5-2	-1.121	0.059	-0.086	183.044	443.298	95.398	151.694	81.584	4.427	10.567	-68.392	-15.242	40.33	
19:10:31	COM8_1152	2023-5-2	-0.927	0.033	-0.107	189.819	450.745	99.182	158.857	77.217	9.657	11.35	-68.992	-13.967	40.39	
19:10:31	COM8_1152	2023-5-2	-0.917	-0.042	-0.168	177.551	431.885	120.911	162.048	72.823	10.953	12.225	-69.383	-12.525	40.52	
19:10:31	COM8_1152	2023-5-2	-0.968	0.024	-0.424	165.71	361.389	119.934	183.658	68.983	10.761	12.833	-69.642	-11.008	40.33	
19:10:31	COM8_1152	2023-5-2	-1.018	0.054	-0.514	162.17	322.571	114.99	164.822	65.693	10.124	13.267	-70.142	-9.575	40.45	
19:10:31	COM8_1152	2023-5-2	-1.118	0.18	-0.511	169.739	330.75	96.558	166.146	62.397	9.63	13.533	-70.817	-8.092	40.33	
19:10:31	COM8_1152	2023-5-2	-0.833	0.1	-0.476	162.109	333.801	92.651	167.503	59.079	9.223	13.708	-71.275	-6.575	40.26	
19:10:31	COM8_1152	2023-5-2	-0.861	0.071	-0.585	158.058	321.594	84.595	168.849	55.893	8.511	13.842	-71.558	-5.133	40.26	
19:10:31	COM8_1152	2023-5-2	-0.699	0.105	-0.613	158.508	320.74	76.965	170.195	52.762	8.421	13.975	-71.708	-3.733	40.33	
19:10:31	COM8_1152	2023-5-2	-0.792	0.073	-0.654	162.476	328.003	79.59	171.502	49.565	7.954	14.117	-71.808	-2.342	40.52	
19:10:31	COM8_1152	2023-6-3	-0.648	0.889	-0.379	1189.514	-43.396	-458.191	120.026	16.271	35.562	23.52	-28.42	-29.106	35.67	
19:10:31	COM8_1152	2023-5-2	-0.768	0.095	-0.701	167.725	336.487	79.285	172.809	46.329	7.405	14.292	-72.683	-0.925	40.45	
19:10:31	COM8_1152	2023-5-2	-0.68	0.063	-0.695	158.875	363.831	76.965	174.106	42.874	6.861	14.558	-73.367	0.45	40.45	
19:10:31	COM8_1152	2023-5-2	-0.726	0.102	-0.707	150.513	385.742	75.989	175.281	39.172	6.279	14.475	-73.95	1.817	40.45	
19:10:31	COM8_1152	2023-5-2	-0.611	-0.048	-0.726	126.221	381.47	98.816	176.155	35.458	5.477	14.117	-73.633	3.15	40.33	
19:10:31	COM8_1152	2023-5-2	-0.569	0	-0.811	148.254	353.577	71.35	177.308	32.031	4.796	13.983	-74.158	4.583	40.26	

BWT901CL | manual V23-0603 | www.wit-motion.com.

Documents / Resources

 <p>USER MANUAL BWT901CL Bluetooth 2.0 InclinoMeter Sensor</p>	<p>WiT BWT901CL Bluetooth InclinoMeter Sensor [pdf] User Manual</p> <p>BWT901CL Bluetooth InclinoMeter Sensor, BWT901CL, Bluetooth InclinoMeter Sensor, Inclino meter Sensor, Sensor</p>
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References

- [{ Hukseflux | #1 in solar radiation & heat flux measurement](#)
- [!\[\]\(83eb2aa26b610eb6a9dca7cf4702d681_img.jpg\) Accelerometer, Gyroscope, 6050 Mpu, Ahrs Sensor, Mpu-6050 Supplier](#)
- [!\[\]\(94dfacbf937cdd7da4837a6fcd8fc785_img.jpg\) Contacts](#)
- [User Manual](#)

Manuals+.