



User Manual

Ver 2.0

2024/6/18

<https://www.imotek.com.tw/>

Before using this product, please make sure to carefully read the user manual.

Please use it correctly based on a full understanding of its contents.

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1. Information

1.1 Basic Equipment

- Motion Sensors x 2
- AccelYzx Software x 1
- Calf Band x 2

1.2 Software Minimum Requirements

- Minimum Requirements:

Specifications	
OS	Windows 7 up
CPU	Intel Core i5 or AMD Ryzen 5
RAM	4GB
Hardware Space	2GB
Resolution	1920 x 1080
USB 2.0	USB Port x 1
Bluetooth	Bluetooth 4.2

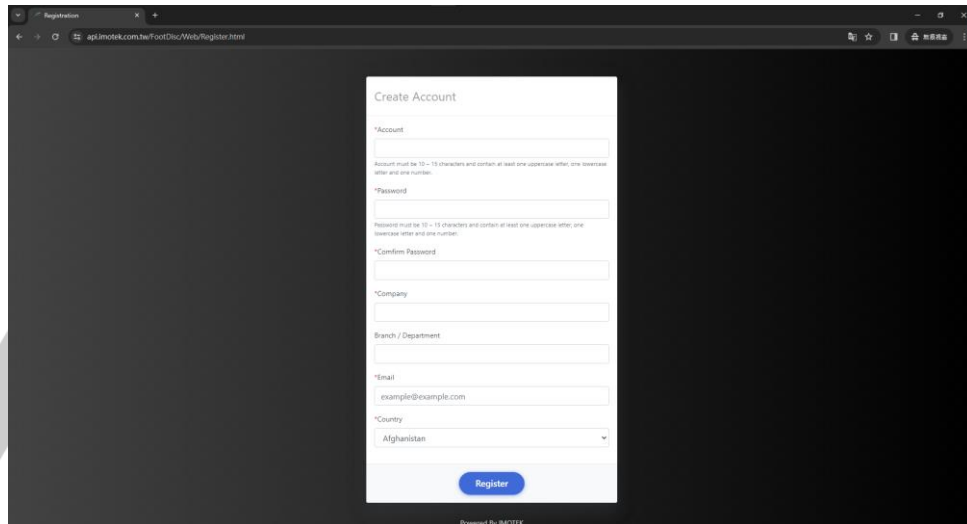
1.3 Precautions Before Use

- Before use, please carefully read this manual. Our company does not bear responsibility for any human-caused issues resulting from improper use of the product.
- Carefully read and properly store the user manual. Follow the operating instructions as described in the manual. The screen display illustrations used in this manual may not exactly match what appears on your screen. This discrepancy may be due to different software versions.

2. Installation

2.1 Register Account

Step 1: Go to [here](#) to register.



The screenshot shows a web browser window with the URL `api.imotek.com.tw/FontDisc/Web/Register.html`. The page displays a 'Create Account' form with the following fields and requirements:

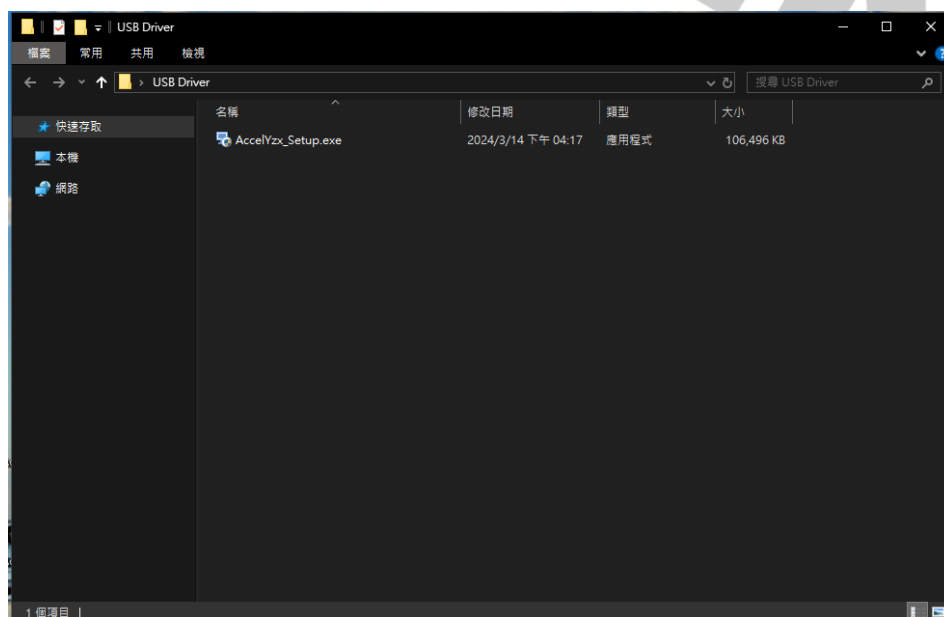
- *Account:** Account must be 10 - 15 characters and contain at least one uppercase letter, one lowercase letter and one number.
- *Password:** Password must be 10 - 15 characters and contain at least one uppercase letter, one lowercase letter and one number.
- *Confirm Password:**
- *Company:**
- Branch / Department:**
- *Email:** example@example.com
- *Country:** Afghanistan (dropdown menu)

A blue 'Register' button is at the bottom of the form. The footer of the page says 'Powered By iMOTek'.

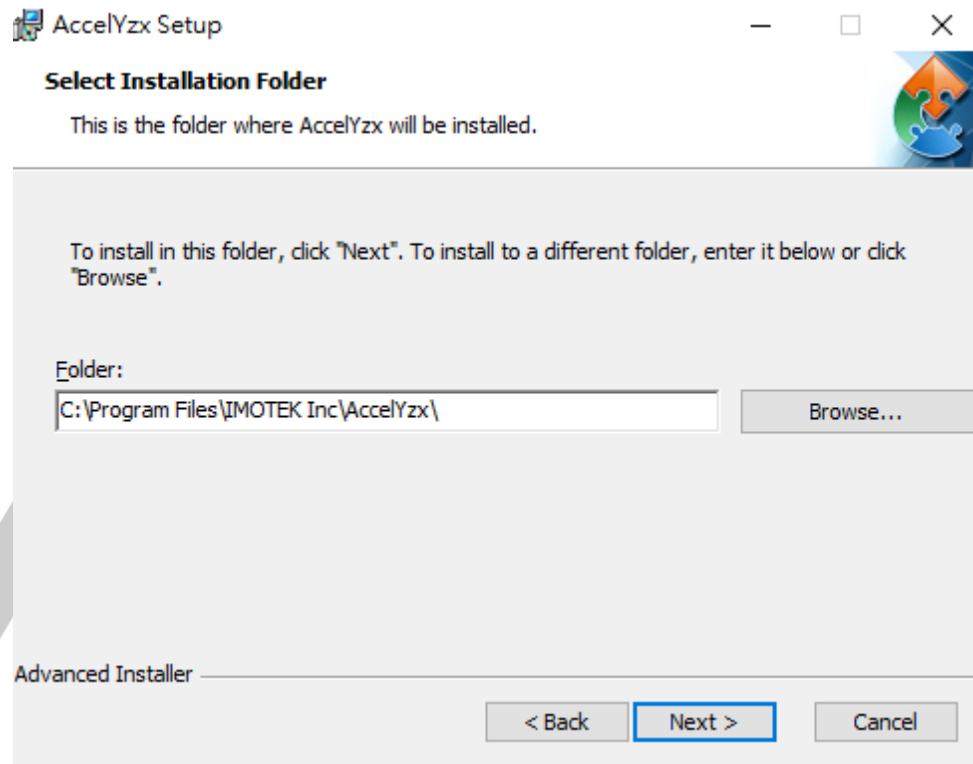
Step 2: Register your enterprise account. (company and branch/department only require English characters)

2.2 Install Software

Step 1: Execute AccelYzx_Setup.exe

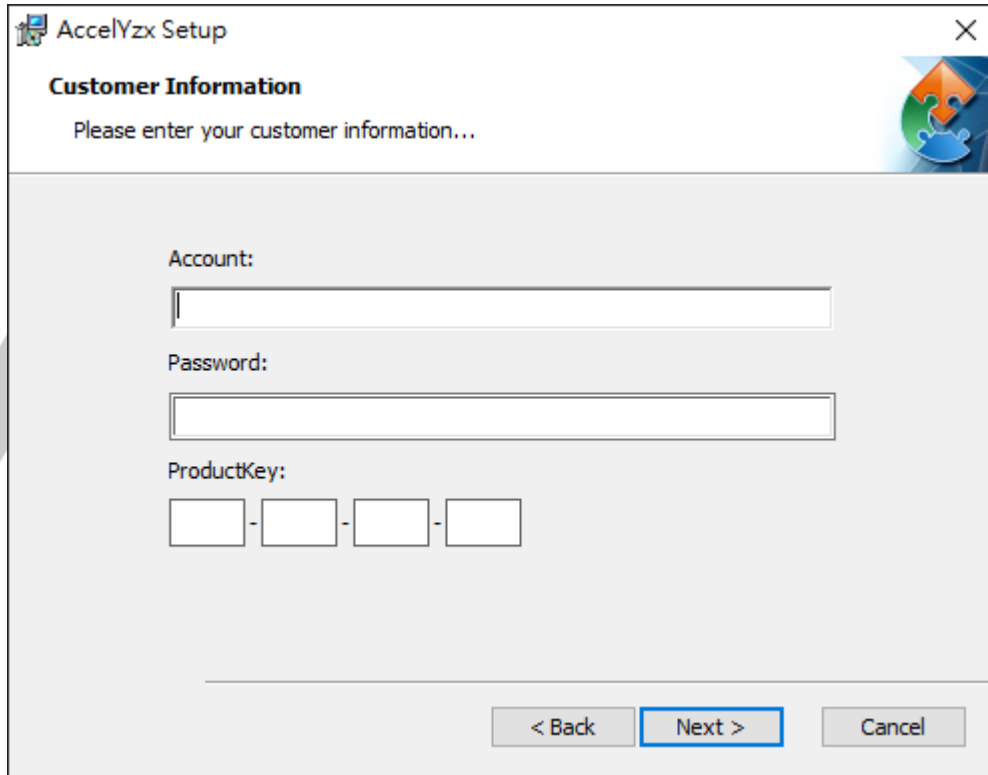


Step 2: Select Installation Path for the Application



Step 3: Enter the registered enterprise account, password, and license code.

(Please perform this operation with internet connection)



The image shows a Windows-style dialog box titled "AccelYzx Setup". Below the title bar, the text "Customer Information" is displayed, followed by the instruction "Please enter your customer information...". The dialog contains three input fields: "Account:" (a single-line text box), "Password:" (a single-line text box), and "ProductKey:" (four separate single-character boxes separated by hyphens). At the bottom right, there are three buttons: "< Back", "Next >" (which is highlighted with a blue border), and "Cancel". A small icon of four interlocking puzzle pieces is located in the top right corner of the dialog area.

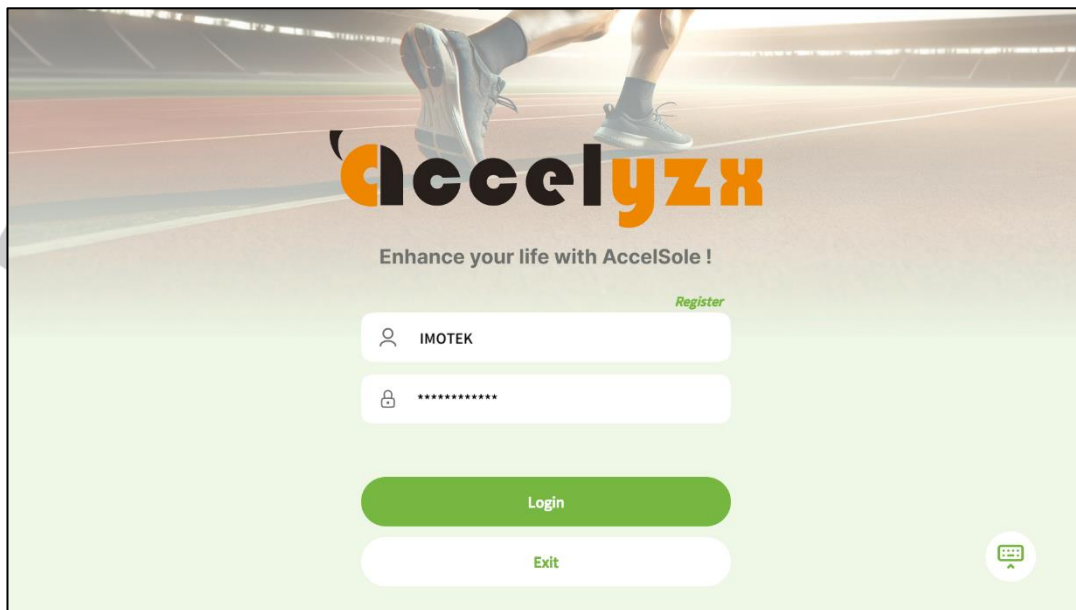
Step 4: Installation Succeeded

3. Software Instruction

3.1 Login

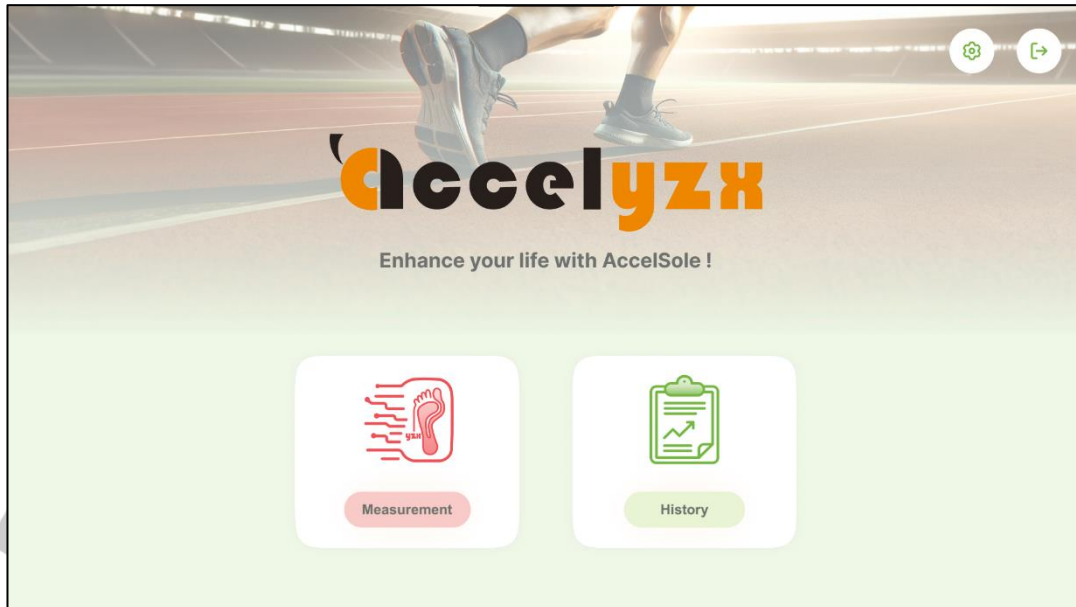
Step 1: Open AccelYzx.exe, Enter enterprise account, and click 'Login' to start.

(Please perform this operation with internet connection)

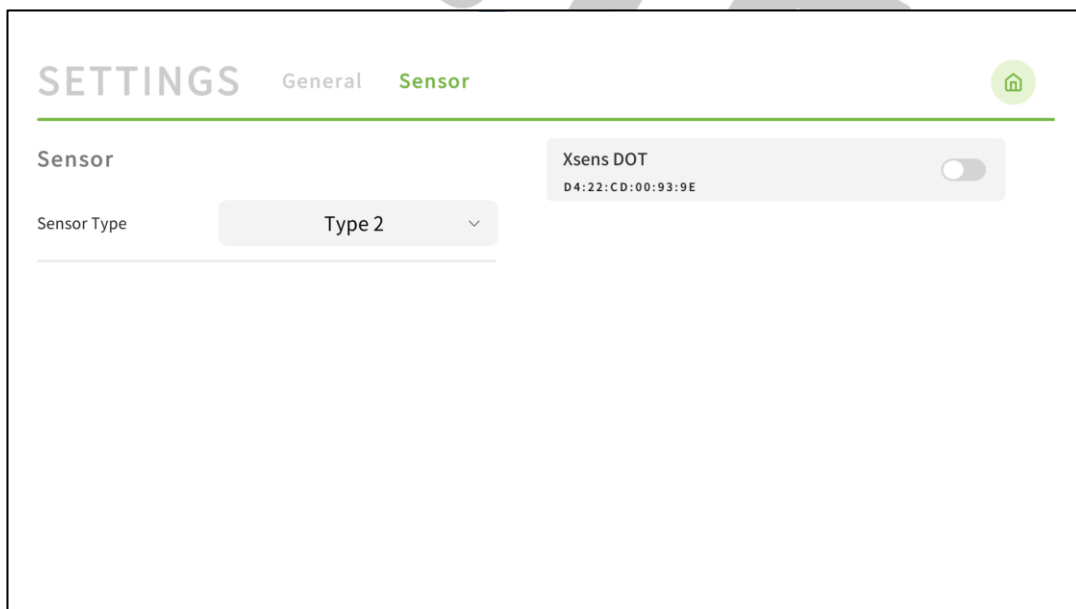


3.2 Pair Sensors

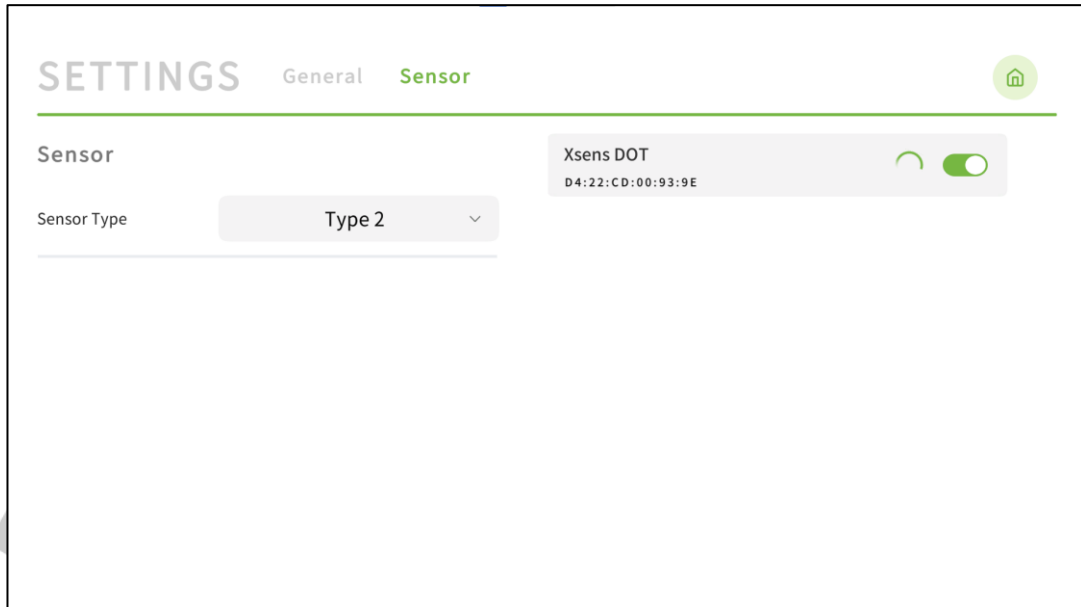
Step 1: Click the Setting Button on the top right corner



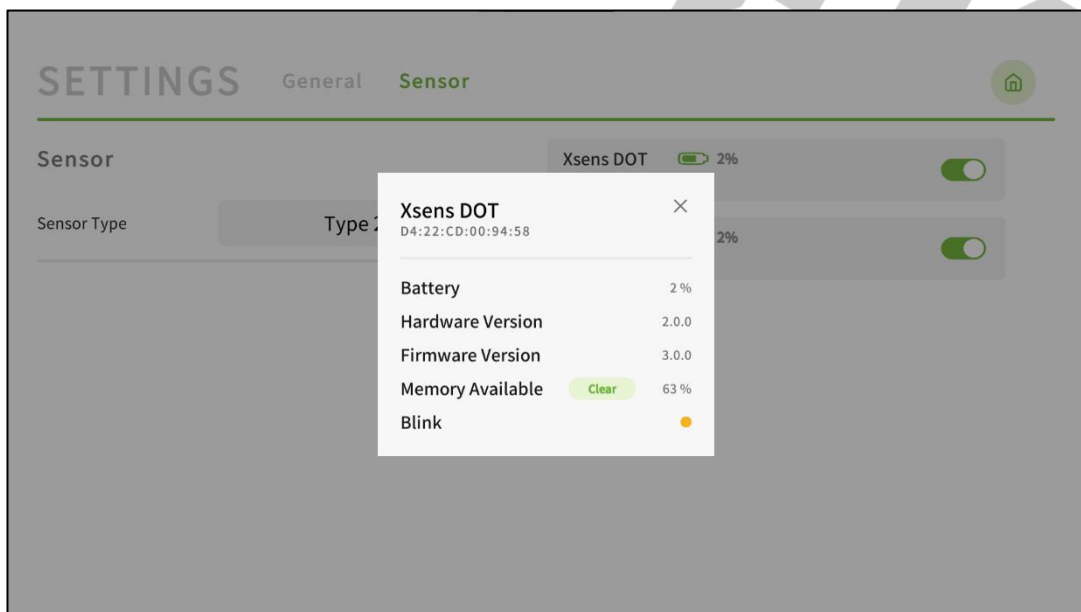
Step 2: Select Sensor to go to Sensor panel



Step 3: Select your sensor type, turn on the switch to pair the sensor.

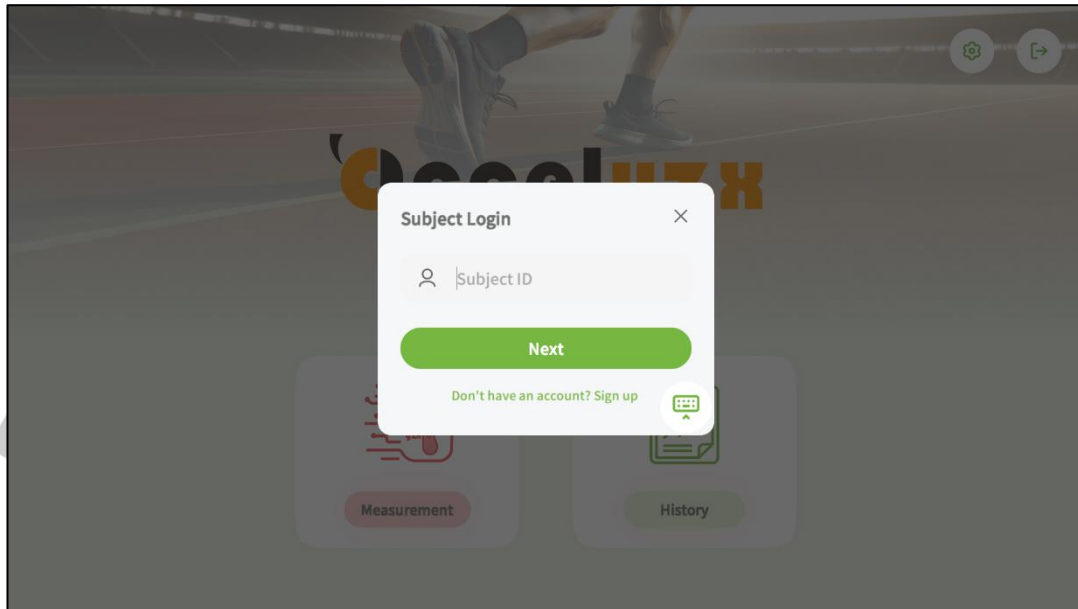


Step 4: Bluetooth pairing successful. (You can click on the paired sensors to view their basic information)

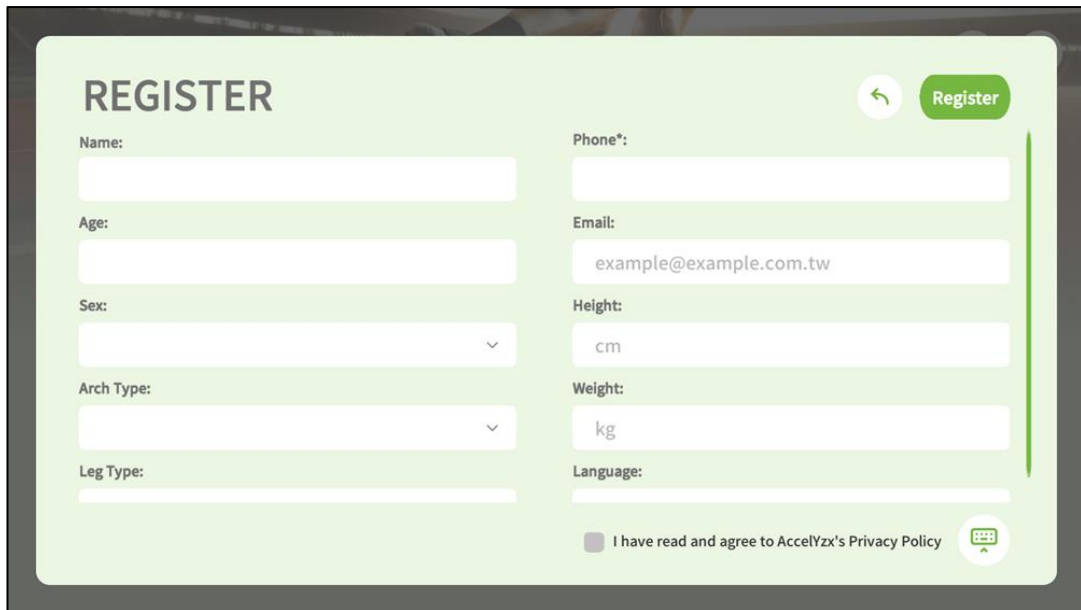


3.3 Insole Fitting, Re-examination Mode

Step 1: Click Start Measurement to start measurement. Enter your Subject ID. If you don't have an ID, click 'Sign Up' to register.



Step 2: Enter your basic information; only the phone number is required. If you wish to receive advanced reports, you will need to provide an email address and the report language can be selected via the 'Language' option, with the default set to English.



REGISTER

Phone*:

Register

Name:

Age:

Sex:

Arch Type:

Leg Type:

Email:

example@example.com.tw

Height:

cm

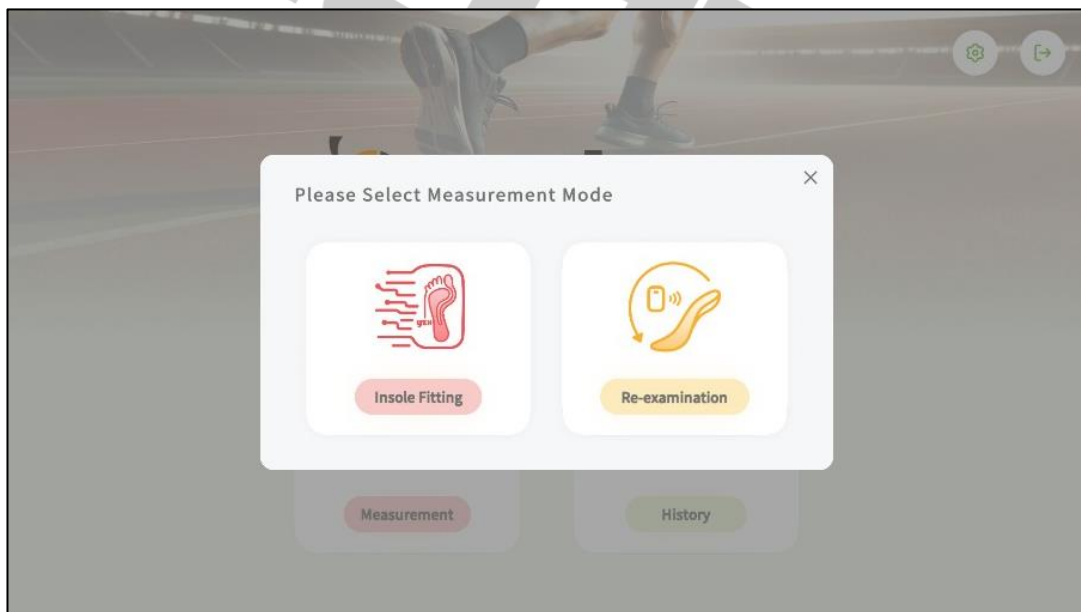
Weight:

kg

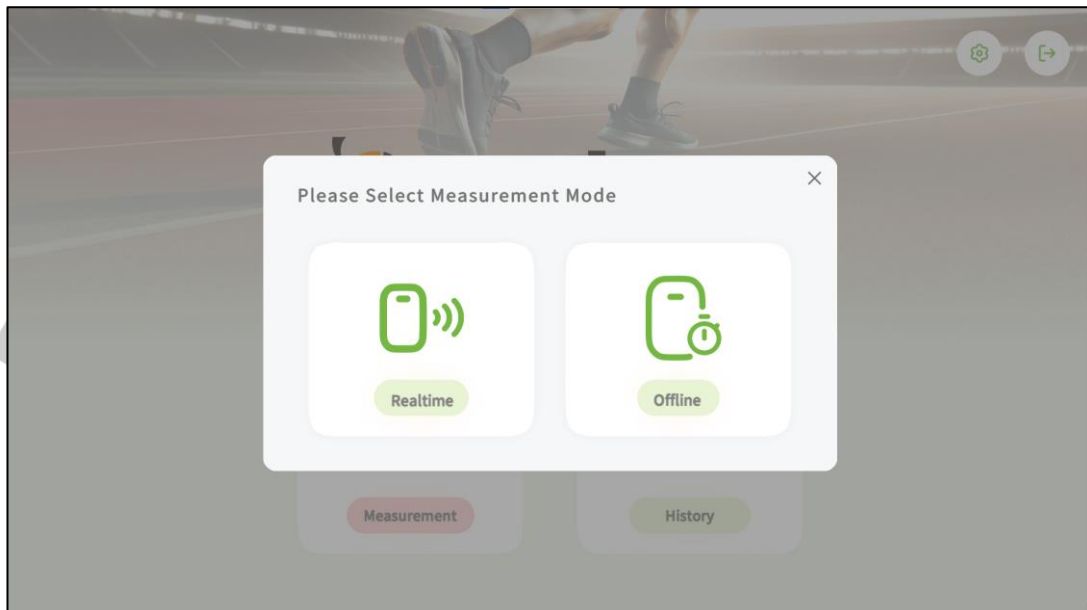
Language:

☐ I have read and agree to AccelYzx's Privacy Policy

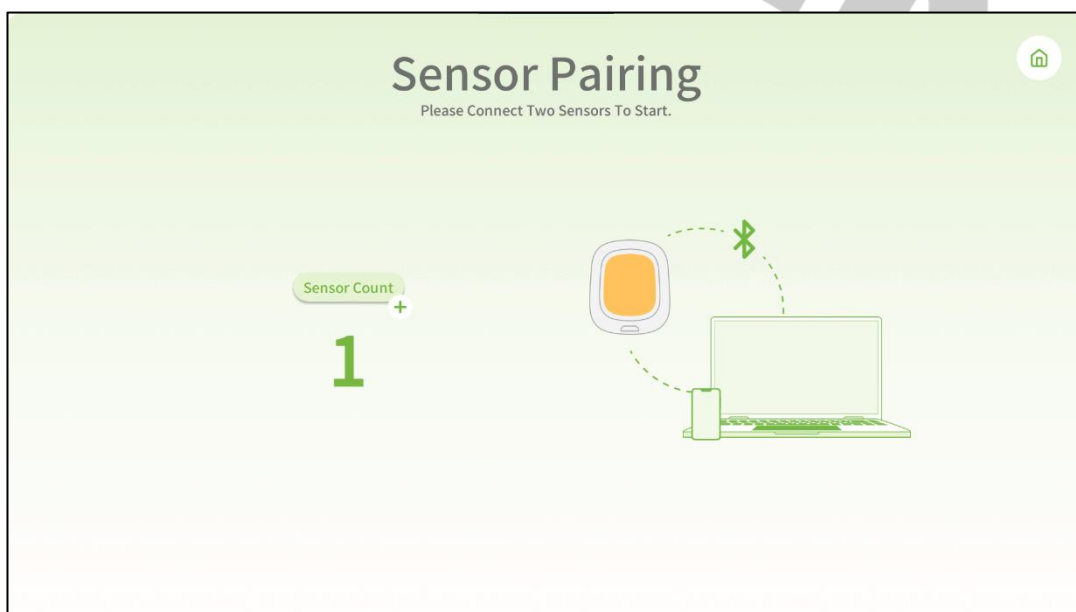
Step 3: You can choose between Insole Fitting and Re-examination Mode



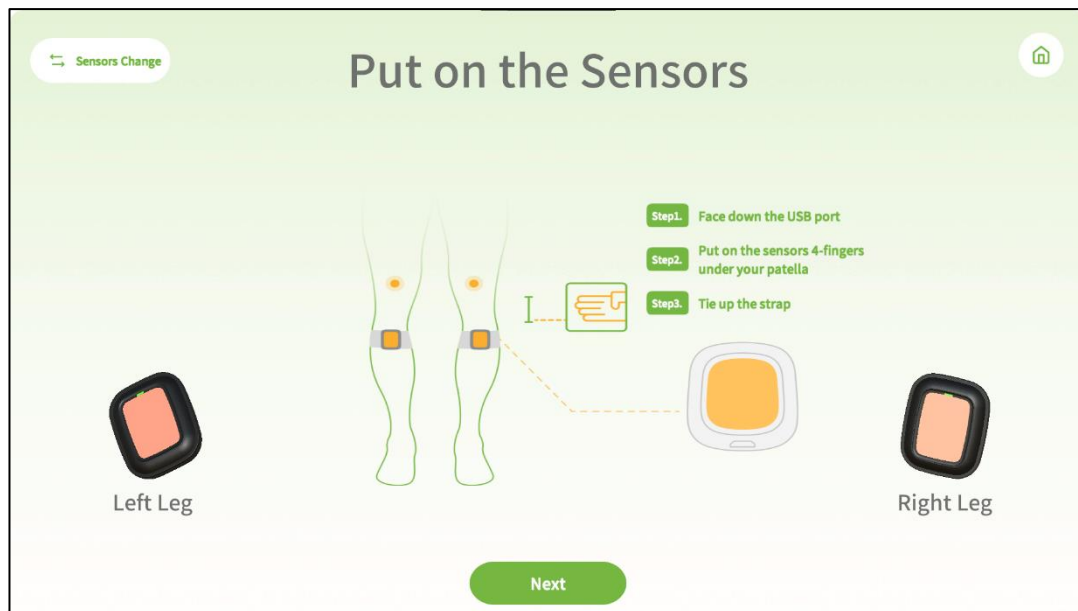
Step 4: The assessments are divided into real-time mode and offline mode. (In real-time mode, data is transmitted to the computer instantly and Bluetooth cannot be disconnected; in offline mode, you can leave and assess outdoors directly)



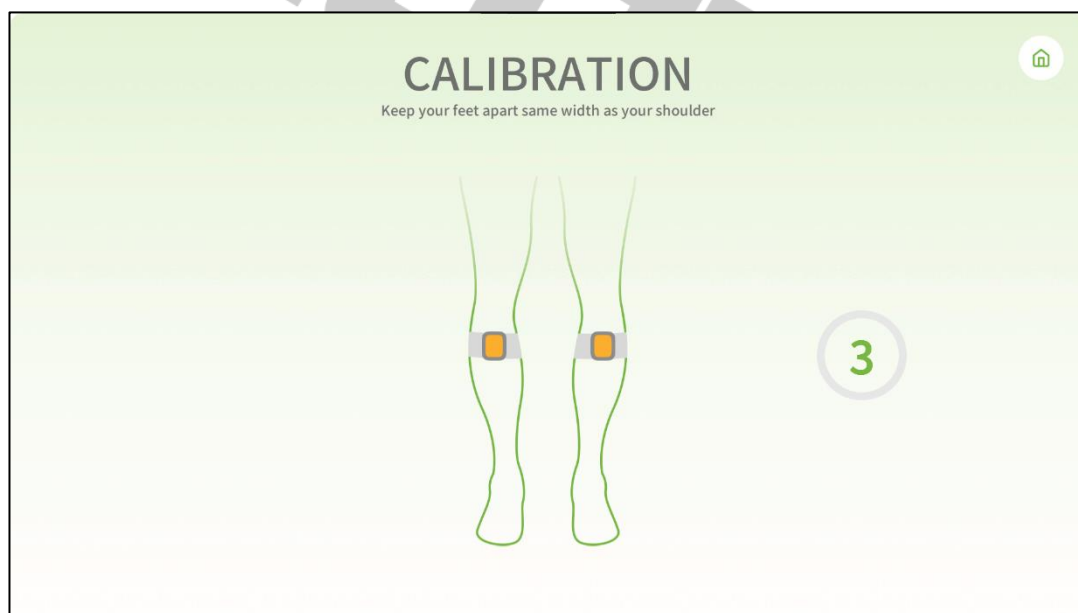
Step 5: If the number of paired sensors is incorrect, you can click the '+' icon to enter the pairing page and proceed with pairing.



Step 6: Verify the correct placement of the sensors

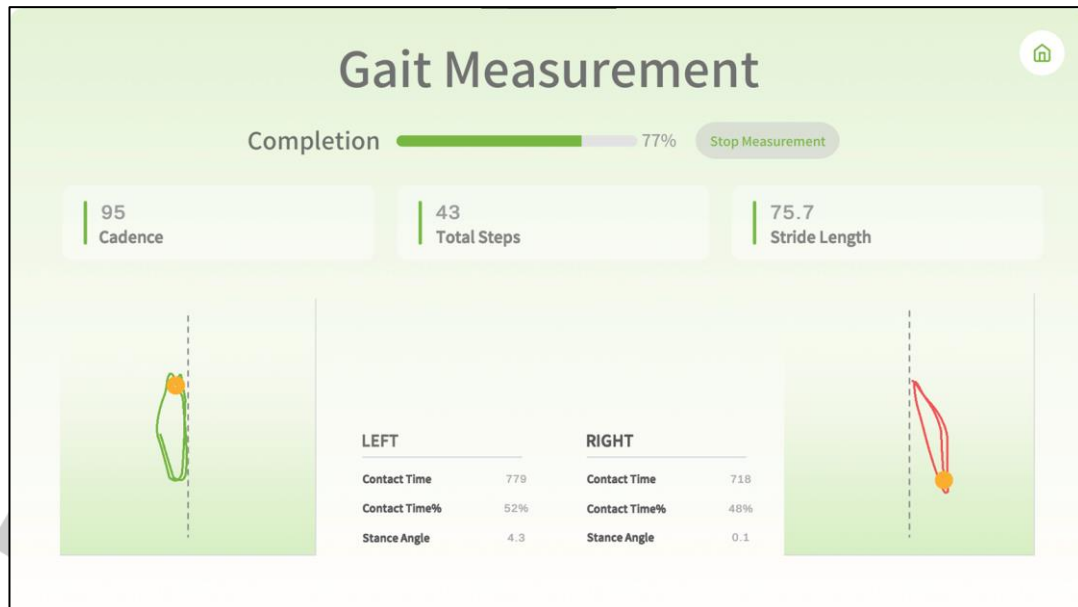


Step 7: Begin static calibration with feet shoulder-width apart

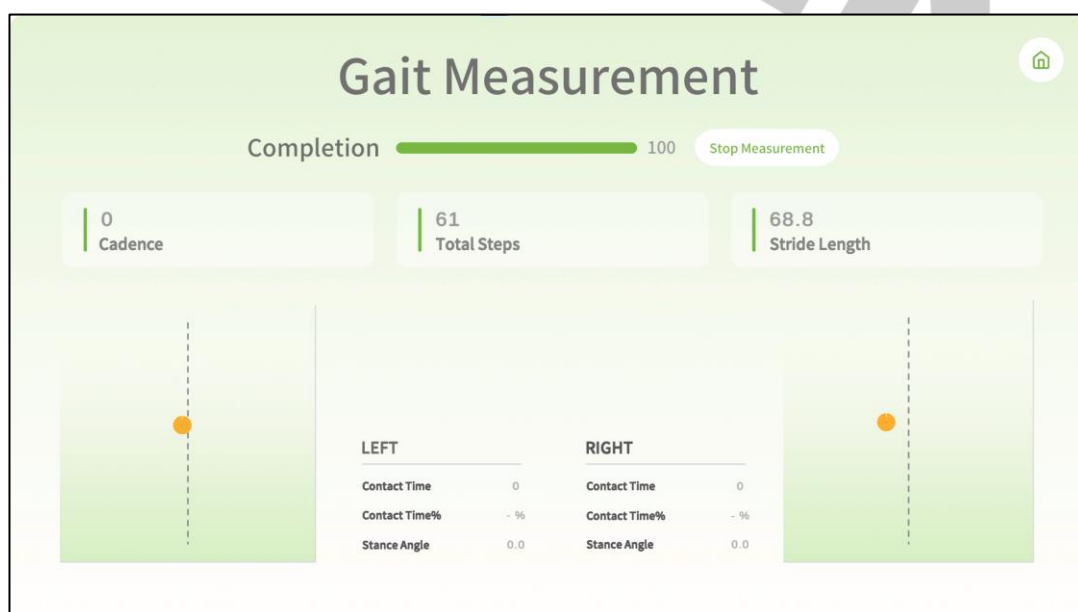


Step 8: In real-time mode, begin walking and click 'Start

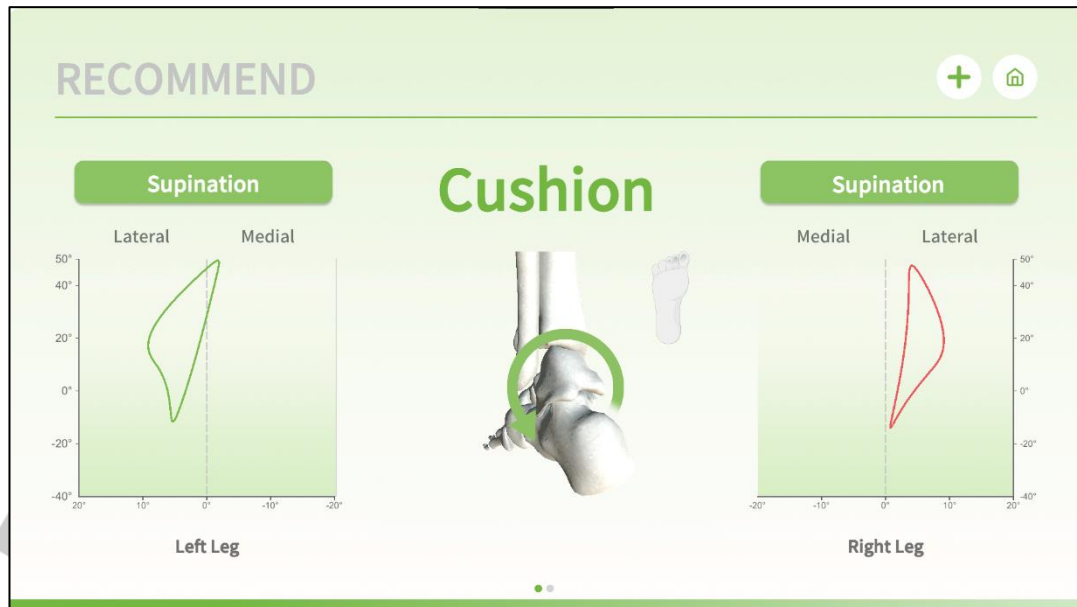
Measurement' until the progress reaches 100%.



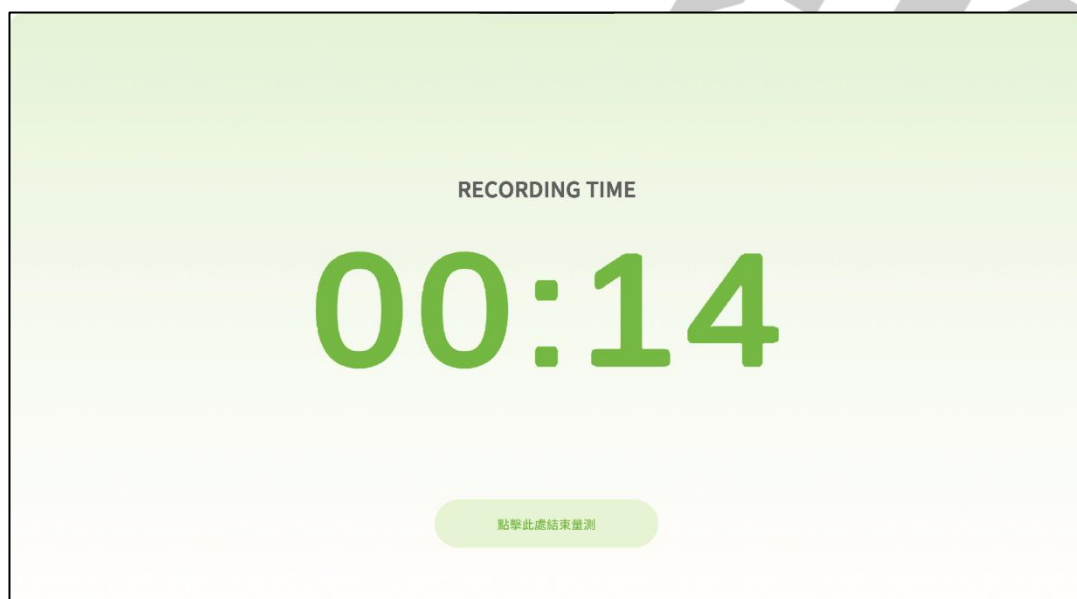
Step 9: While completion rate reaches 100%, you can still record data for more accurate result, or click Stop Measurement to stop measurement.



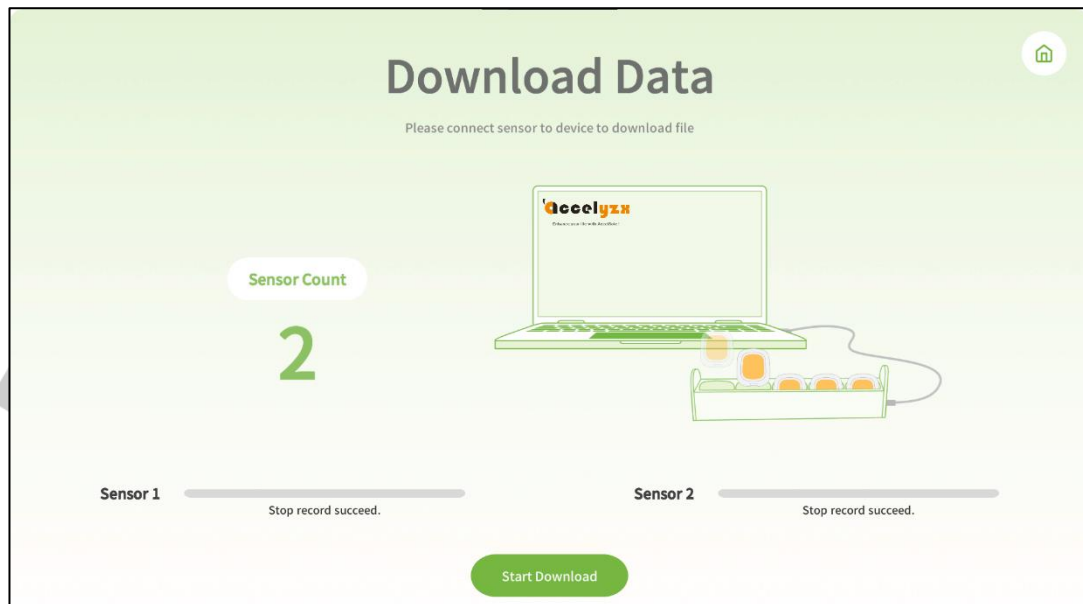
Step 10: Result page will show insoles we recommend, base on subject' s motion type and knee trajectory.



Step11: In offline mode, it is recommended to collect data for approximately 40 seconds using a timer, ensuring that each foot takes at least 10 steps, excluding turns.

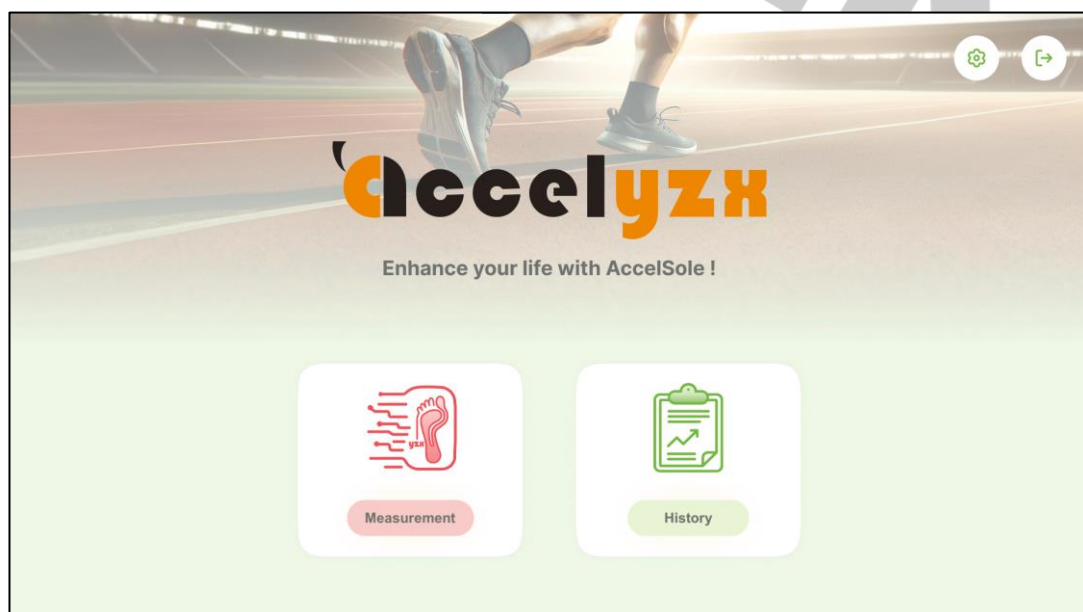


Step12: After collecting the data, connect the sensors to the computer via USB and proceed with downloading and processing the data.

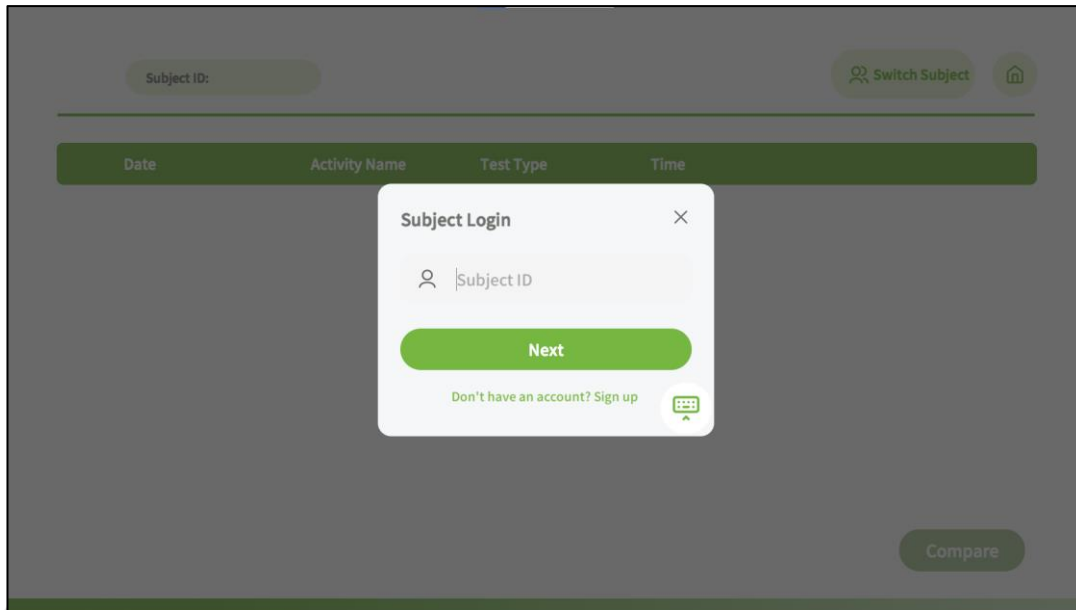


3.4 History

Step 1: Click the History Button



Step 2: Enter your Subject ID to log in



The screenshot shows a 'Subject Login' modal window. At the top, there is a 'Subject ID:' label and a 'Switch Subject' button with a user icon. Below this is a table header with columns: Date, Activity Name, Test Type, and Time. The modal itself has a title 'Subject Login' and a close button. It contains a text input field with a user icon and the placeholder 'Subject ID'. Below the input is a green 'Next' button. At the bottom of the modal, there is a link 'Don't have an account? Sign up' with a speech bubble icon.

Step 2: It will display all the measurement record on the list



The screenshot shows a list of measurement records. At the top, there is a 'Subject ID:' label and a 'Switch Subject' button with a user icon. Below this is a table with columns: Date, Activity Name, Test Type, and Time. The table contains four rows of data, each with a checkbox on the left.

	Date	Activity Name	Test Type	Time
☐	2024-05-31 15:06:54	Gait-ReExamination	Re-Examination	00:57
☐	2024-05-31 14:59:14	Gait-InsoleFitting	Insole Fitting	00:52
☐	2024-05-31 14:40:38	Gait-ReExamination	Re-Examination	00:20
☐	2024-05-31 13:30:49	Gait-ReExamination	Re-Examination	01:31

At the bottom right of the table, there is a green 'Compare' button.

Step 3: Select the data to be compared, and click Compare.

(The first entry will be the benchmark for comparison, multiple entries can be selected for long-term data tracking)

Subject ID:

Switch Subject

	Date	Activity Name	Test Type	Time
☒	2024-06-18 15:59:08	Gait-InsoleFitting	Insole Fitting	00:56
☒	2024-06-17 12:34:55	Gait-InsoleFitting	Insole Fitting	00:27
☒	2024-06-17 12:33:54	Gait-InsoleFitting	Insole Fitting	00:31
☐	2024-06-17 12:33:03	Gait-InsoleFitting	Insole Fitting	00:30

Compare

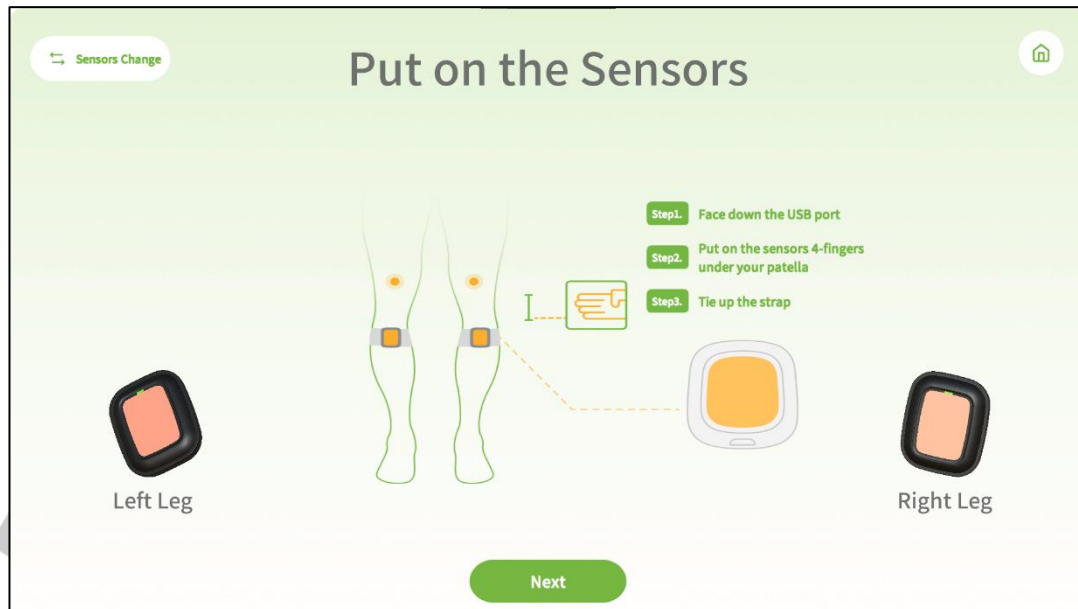
Step 4: Presenting changes in stability, sway angle, weight distribution between left and right feet, as well as movement patterns.

Subject ID:

	Gait-InsoleFitting 2024-06-18 15:59:08		Gait-ReExamination 2024-06-14 18:19:26		Gait-InsoleFitting 2024-06-14 18:16:56	
	Insole Fitting		Re-Examination		Insole Fitting	
	Left	Right	Left	Right	Left	Right
Stability	84 %	85.6 %	↑ 90.2 %	↑ 89 %	↑ 86.5 %	↑ 87.4 %
Sway Angle	± 1.83 °	± 1.13 °	↑ ± 1.16 °	± 1.23 °	↑ ± 1.28 °	↑ ± 0.9 °
Loading Ratio	48 %	52 %	↑ 50 %	↑ 50 %	↑ 49 %	↑ 51 %
Motion Type	Pronation	Pronation	Supination	Supination	Pronation	Supination

4. Trouble Shooting

4.1 Sensor has no response in setup page



(Please ensure that the sensors have battery power remaining.)

Method 1: Click Sensors Reconnect on the top right corner.

Method 2: Go to section 3.2, check if sensor is connected.

Method 3: Close the software and re-plug sensors.

Method 4: Re-start PC.

5. Attachment:

5.1 European Union regulatory compliance

Based on the tested mode of operation(s), the applicable performance criteria, and specified acceptance criteria, this device complies with the essential requirements and other relevant provisions of:

Short name	Directive
Radio Equipment Directive (RED)	2014/53/EU
Electromagnetic compatibility (EMC)	2014/30/EU
Low Voltage (Product Safety)	2014/35/EU
Restriction of the use of certain hazardous substances (RoHS)	2011/65/EU

5.2 FCC compliance

Based on the tested mode of operation(s), the applicable performance criteria, and specified acceptance criteria, this device complies with Part 15 of the FCC Rules.

Object classification	Directive
Computers and other digital devices, unintentional radiator	47 CFR 15

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

This device contains
FCC ID: XPYANNAB1
IC: 8595A-ANNAB1

5.3 Japan radio equipment compliance

The ANNA-B112 module complies with the Japanese Technical Regulation Conformity Certification of Specified Radio Equipment (ordinance of MPT N° . 37, 1981), Article 2, Paragraph

1:

- Item 19 "2.4 GHz band wideband low power data communication system".



5.4 NCC Taiwan compliance

The ANNA-B112 module complies with the NCC Taiwan compliance.

Contains Transmitter Module

內含發射器模組:  CCAI18LP2200T2

Find more detailed information on Movella DOT certification [here](#).