



# **LIPSMetric™ HA110-M**

Handheld Object Dimensioner

**User's Manual**

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July 2026  
Revision 2.3.2



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**July 2026**

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## Revision History

| Revision | Description                                                                                                                        | Date           |
|----------|------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 2.3.2    | 1.) Modified the pic for correct photo angle for 1.2 A Hardware Overview.<br>2.) Modified the calculation of DIMwt in page8.       | 2023 / 09 / 14 |
| 2.3.1    | Modified the wording for barcode scanner in page13.                                                                                | 2023 / 09 / 13 |
| 2.3      | 1.) Modified the user guide for barcode scanner in page13.<br>2.) Modified the user guide for Calibration: Guideline in page16/17. | 2023 / 09 / 12 |
| 2.2      | 1.) Add LIPSMetric_APP-v2.1.4 in Package List<br>2.) Modified the description of item 3 under the 2.2-A                            | 2023 / 09 / 01 |
| 2.1      | Modified Package list information                                                                                                  | 2023 / 08 / 31 |
| 2.0      | Updated new architecture                                                                                                           | 2023 / 08 / 16 |
| 1.1      | Updated vital software functions                                                                                                   | 2023 / 02 / 16 |
| 1.0      | Initial release of internal version                                                                                                | 2022 / 12 / 30 |

# 1. Package & Hardware Overview

## 1.1 Package Overview

### A. Packing List

The packing list serves as a reference for package contents, which includes the hardware and software of the product. If anything was missing, contact [info@lips-hci.com](mailto:info@lips-hci.com).

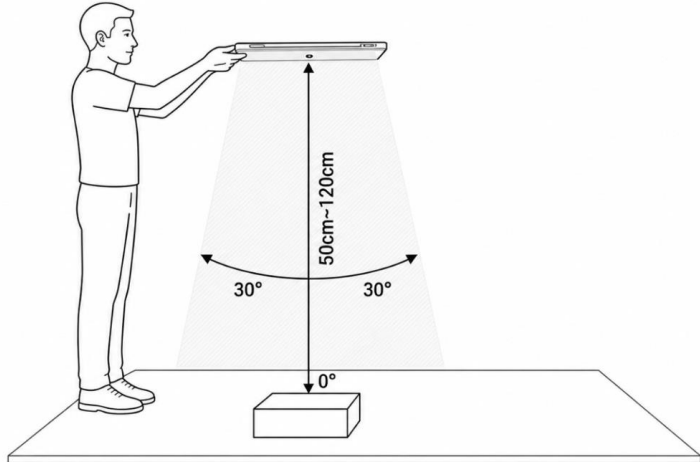
| No. | Item                                                                                         | Qty. |
|-----|----------------------------------------------------------------------------------------------|------|
| 1.  | LIPSedge™ L210u                                                                              | 1    |
| 2.  | LIPSMetric™ Handheld HA110-M Object Dimensioner Software<br>(Version: LIPSMetric_APP-v2.1.4) | 1    |
| 3.  | LIPSedge™ L210u protective case                                                              | 1    |
| 4.  | LIPSedge™ L210u power cable                                                                  | 1    |
| 5.  | Microsoft Surface Go protective case                                                         | 1    |

## 1.2 Hardware Overview

### A. Hardware Installation

For optimal results, adhere to the following requirements when measuring objects.

#### LIPSMetric™ HA110-M Handheld Object Dimensioner Setup



**Relevant Information**

**Setup Steps**

- ① **Orientation**  
Hold the Microsoft Surface Go 3 horizontally and position the LIPSedge™ L210u's field of view toward the object during scanning.
- ② **Distance**  
Keep a 50 – 120 cm distance between the camera and the target object.
- ③ **Camera Angle**  
Align the camera perpendicular to the target object. The camera's field of view encompasses a 30° angle around the object.

**Object Placement**



Correct

Single centered object



Avoid

Nearby object interferes

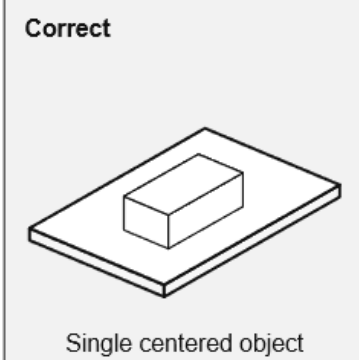
**Scanning Conditions**

- **Environment**  
Place the object on a level surface, free from other nearby objects.
- **Position**  
Place the object within the center of LIPSedge™ L210u's FoV.
- **Object**  
Ensure that the LIPSedge™ L210u's field of view captures ONLY a single object during scanning.

**Quick Check**  
Hold the tablet level above the target, keep the object centered at 0°, maintain 50 – 120 cm distance, and scan only one object on a clear level surface.

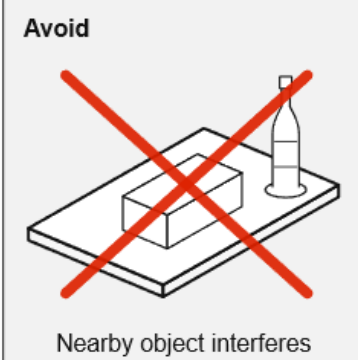
- **Orientation:** Hold the Microsoft Surface Go 3 **horizontally** and positions the LIPSedge™ L210u's field of view toward the object during scanning.
- **Distance:** Keep a **50 – 120 cm** distance between the camera and the target object.
- **Camera angle:** Align the camera perpendicular to the target object. The camera's field of view encompasses a 30° angle around the object.

#### Object placement



**Correct**

Single centered object



**Avoid**

Nearby object interferes

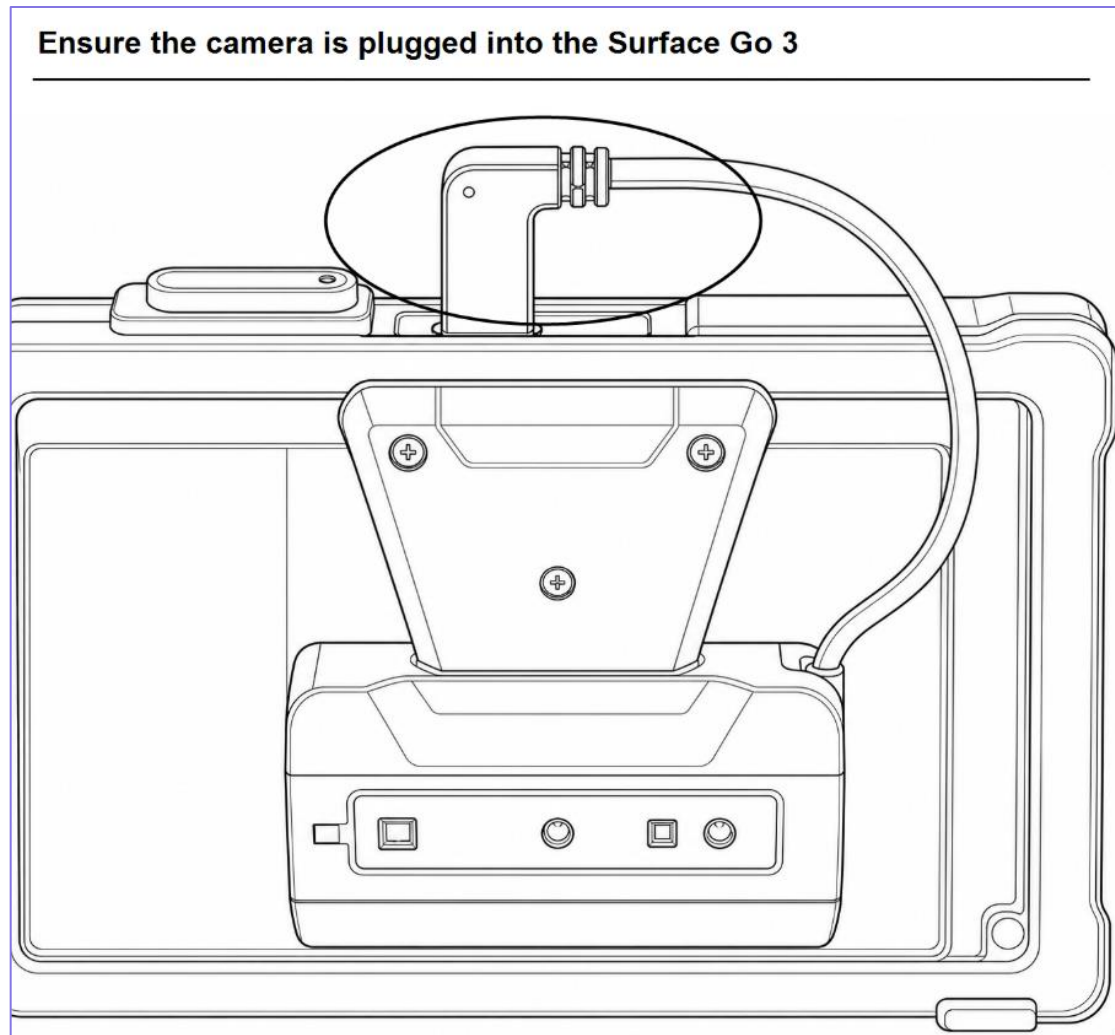
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- **Environment:** Place the object on a level surface, free from other nearby objects.
- **Position:** Place the object within the center of LIPSedge™ L210u's FoV.
- **Object:** Ensure that the LIPSedge™ L210u's field of view captures ONLY a single object during scanning.

## B. Camera Connection

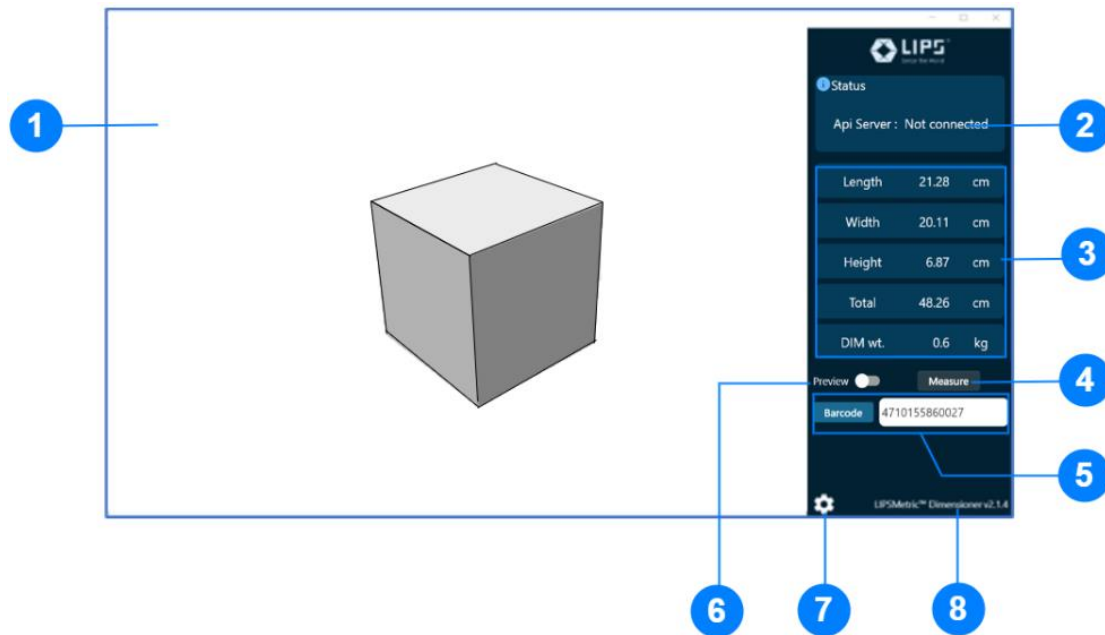
Before using the LIPSMetric™ Handheld HA110-M, connect the LIPSedge™ L210u to the Microsoft Surface Go 3.



## 2. SDK Installation (Global by camera)

### 2.1 The Main Page

After launching the LIPSMetric™ APP, users can see the main page displayed:



1. **Preview Window:** Shows the camera view.
2. **Status:** This feature will be functional in near future.
3. **Object metrics:** Shows the object metrics in cm /kg:
  - **Length:** The length of the target object (cm).
  - **Width:** The width of the target object (cm).
  - **Height:** The height of the target object (cm).
  - **Total:** The sum of the length / width / height of the target object (cm).
  - **DIM wt:** The dimension weight of the target object. The metric is calculated by dividing the Length x Width x Height (Length x Width x Height by 5000).
4. **Measure:** Finds the size / weight of the target object.
5. **Barcode:** Reads the barcode number attached to the target object.
6. **Preview:** Identifies and traces the target object within the camera's FoV and represents the object's metrics with a colored outline.

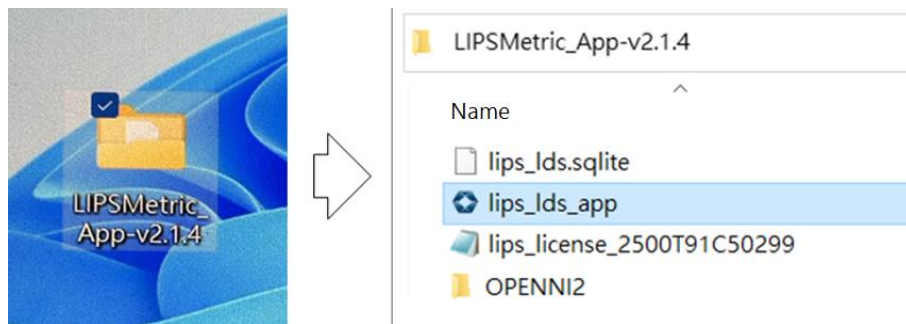
7. **Settings:** Adjust the following LIPSMetric™ APP settings, including the measurement unit / calibration.
  - **Measurement unit:** Select the unit of measurement between cm / inch.
  - **Calibration:** Shows the region of image (ROI), represented by a frame, at the center of the screen. This frame serves as a guide for users to position the target object within the ROI, ensuring optimal measurement results.
8. **Version number:** Shows the current version number of LIPSMetric™ APP.

## 2.2 Software Functions

### 2.2.1 Object Measurement

Users can measure the target object and get instant results of the target object's metrics (cm / inch / dim weight) from the handheld device.

1. Make sure the LIPSedge™ L210u is installed to the Microsoft Surface Go 3.
2. Start the Microsoft Surface Go 3 and the LIPSedge™ L210u will be started subsequently.
3. From the Folder of LIPSMetric\_App-v2.1.4, start the pre-installed LIPSMetric™ Handheld HA110-P Object Dimensioner Software (LIPSMetric™ APP).



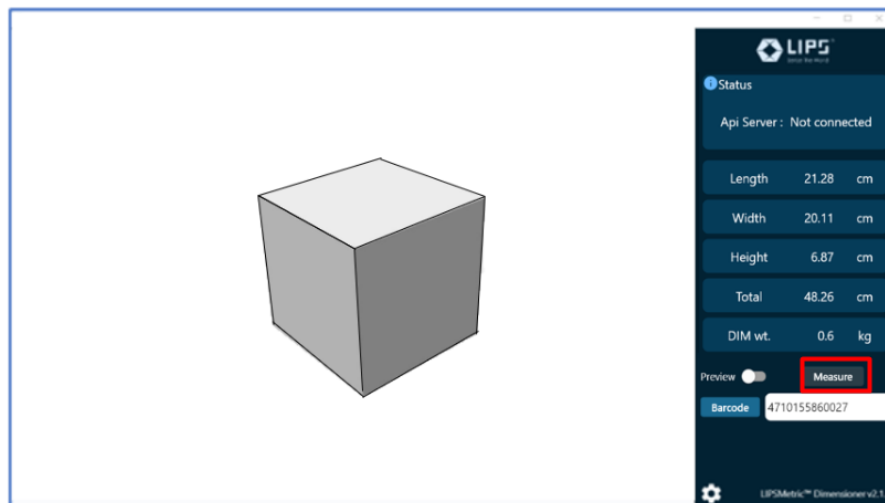

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**Note:** For cases where the LIPSMetric™ APP does not activate, verify the USB-C connector of the LIPSedge™ L210u are fully plugged into the Microsoft Surface Go 3 USB-C port.

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4. Aim the the Microsoft Surface Go 3 and the LIPSedge™ vertically at the target object. Make sure the target object is positioned at a level panel with no other objects around.

5. Click Measure. The LIPSMetric™ APP will show the objects metrics.

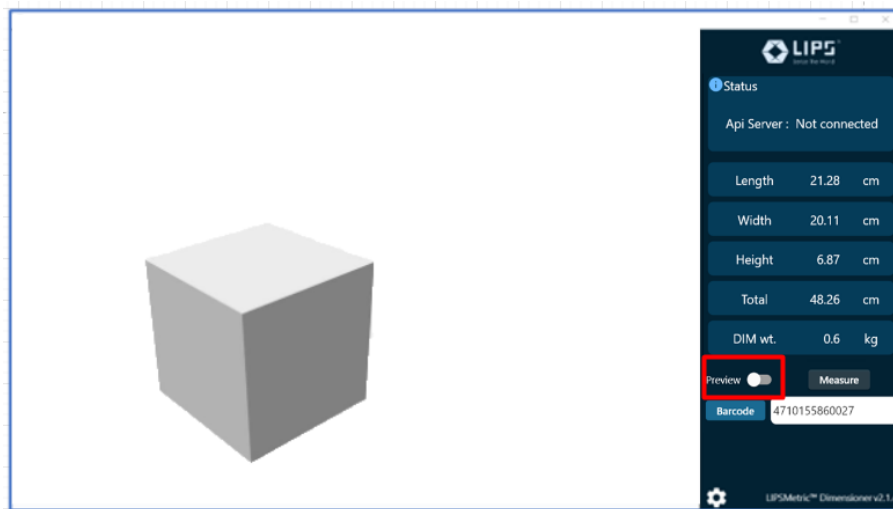


## 2.2.2 Object Preview

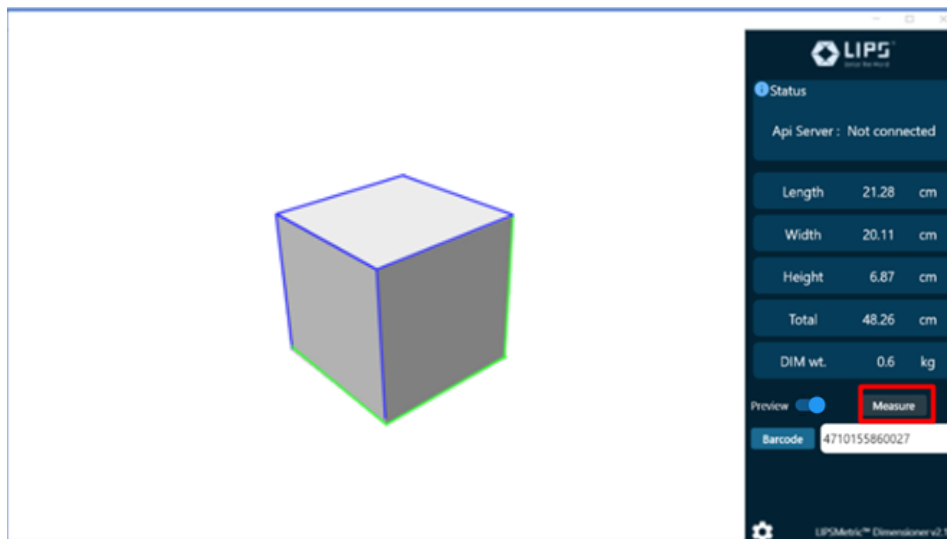
The preview function identifies and traces the target object within the camera's FoV and represents the object's metrics with a colored outline.

1. Start the LIPSMetric™ APP and aim at a target object.

**Toggle preview:**



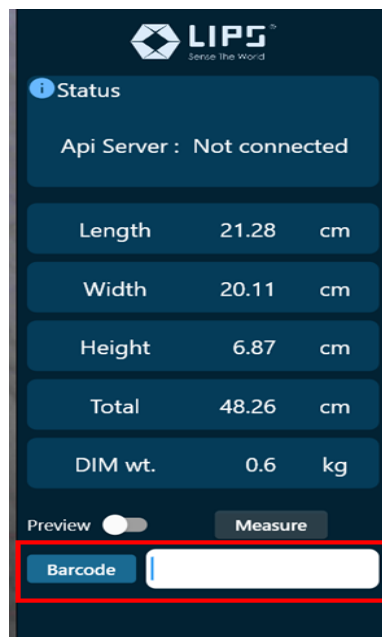
2. LIPSMetric™ APP traces the target object within the camera's FoV and represents the object's metrics with a colored outline.



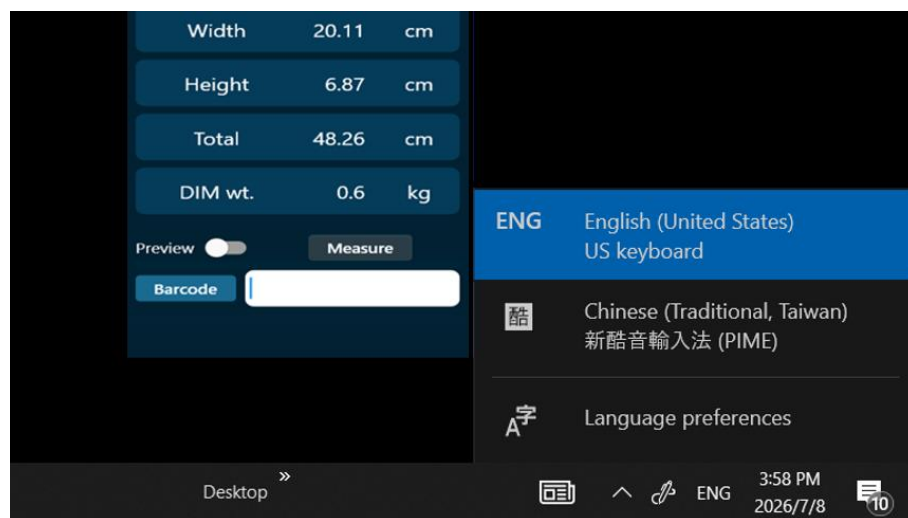
### 2.2.2.1 Barcode Scanning

LIPSMetric™ APP enables users to scan a target object with a barcode using a Bluetooth barcode scanner.

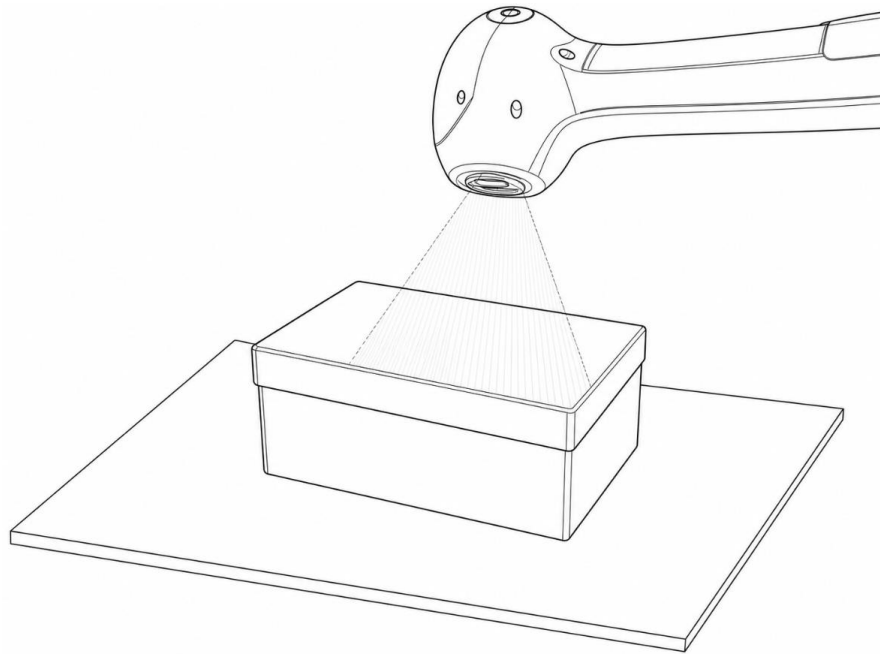
1. Connect the Microsoft Surface Go 3 with a USB hub the LIPSedge™ L210u.
2. Connect the Bluetooth barcode scanner to the Microsoft Surface Go 3.
3. Activate the LIPSMetric™ Handheld HA110-M Object Dimensioner Software.
4. Make sure to click the blank area of barcode as below



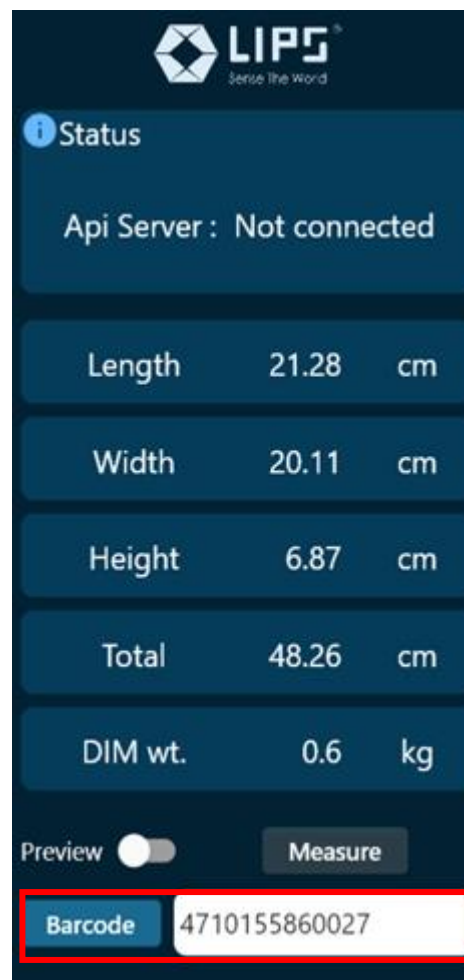
5. Make sure the input method engine is English input method before using the scanner.



6. Scan the barcode on the target object by using the Bluetooth barcode scanner.



7. The barcode will be displayed in LIPSMetric™ APP.

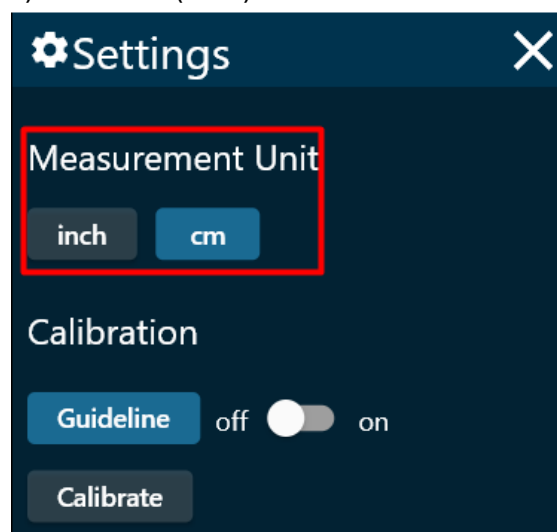


## 2.2.2.2 Settings

Users can adjust the LIPSMetric™ APP's settings.

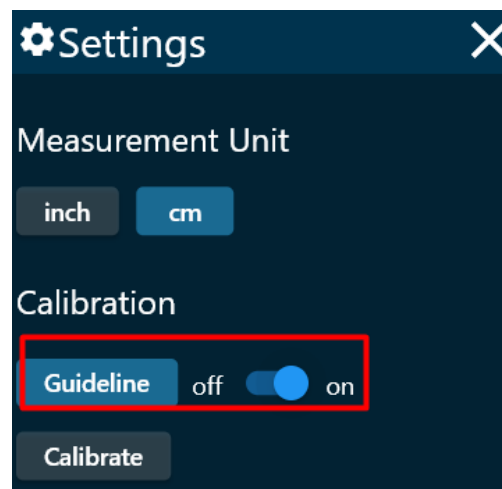
### [Measurement Unit]

1. Start LIPSMetric™ APP and click  at the lower right corner.
2. Under Measurement Unit, users can choose the unit of target object metrics as centimeters (cm) or inches (inch).

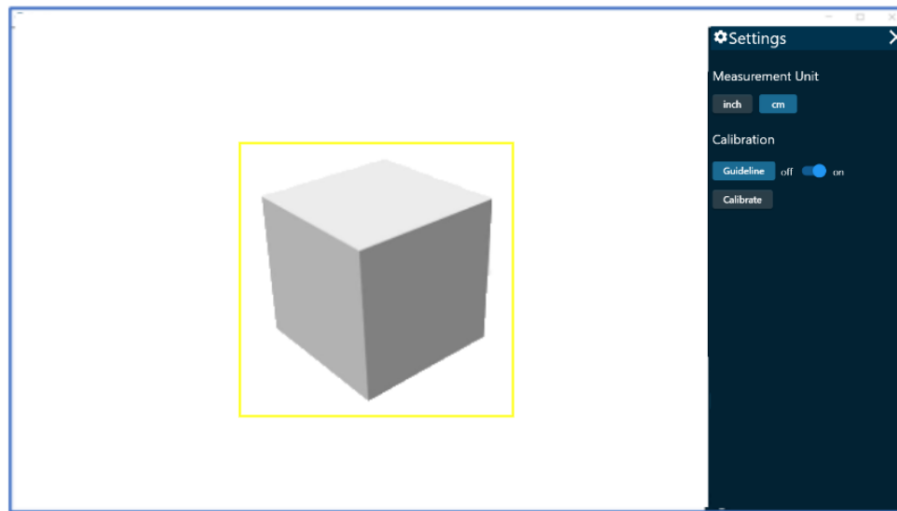


### [Calibration: Guideline]

1. Start LIPSMetric™ HA110-P Handheld Object Dimensioner Software and click .
2. Turn on the button of the Calibration: Guideline, users can choose to display a color frame to indicate the effective measurement area.



3. The Guideline will be displayed in the preview window. (Suggested to inside or close the Guideline frame for object measurement.)



## 3. Appendix (Private by owner)

### 3.1 Regulatory Compliance Notice



### FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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**Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## FCC Label Notice



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

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.



## CE Compliance

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



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