MEAZOR 3D

Future Laser Measure

Multifunctional Laser Measure

USER MANUAL

Model : M0102-U / M0102

The MEAZOR 3D is a portable and multifunctional measuring device. It is composed of a 131fts (40m) laser distance module and a 4096-grade angle sensor module with high accuracy, which empowers its ability to measure straight lines, curves, and compound shapes floorplans. MEAZOR 3D is equipped with a plotting app for Android and iOS, allowing data collection, floor plan drawing, 3D display, document receiving, and sharing.

-The standard edition (Model M0102) can complete the above essential functions.

-The premium combo (M0102-U) is equipped with the Ultra 3D Adapter and can is capable of obstacle avoidance and achieve higher precision.

SAFETY INSTRUCTIONS

For the safe use of this multifunctional measure, please read the instructions below carefully.

The device is categorized as a Class 2 laser product. DO NOT stare directly at the laser or shoot the laser at other people or animals, or it will cause damage to the eyes.

This product is in accordance with strict standards and testing regulations through its development and manufacturing, but this does not preclude the product from being subjected to external environmental influences and interference.

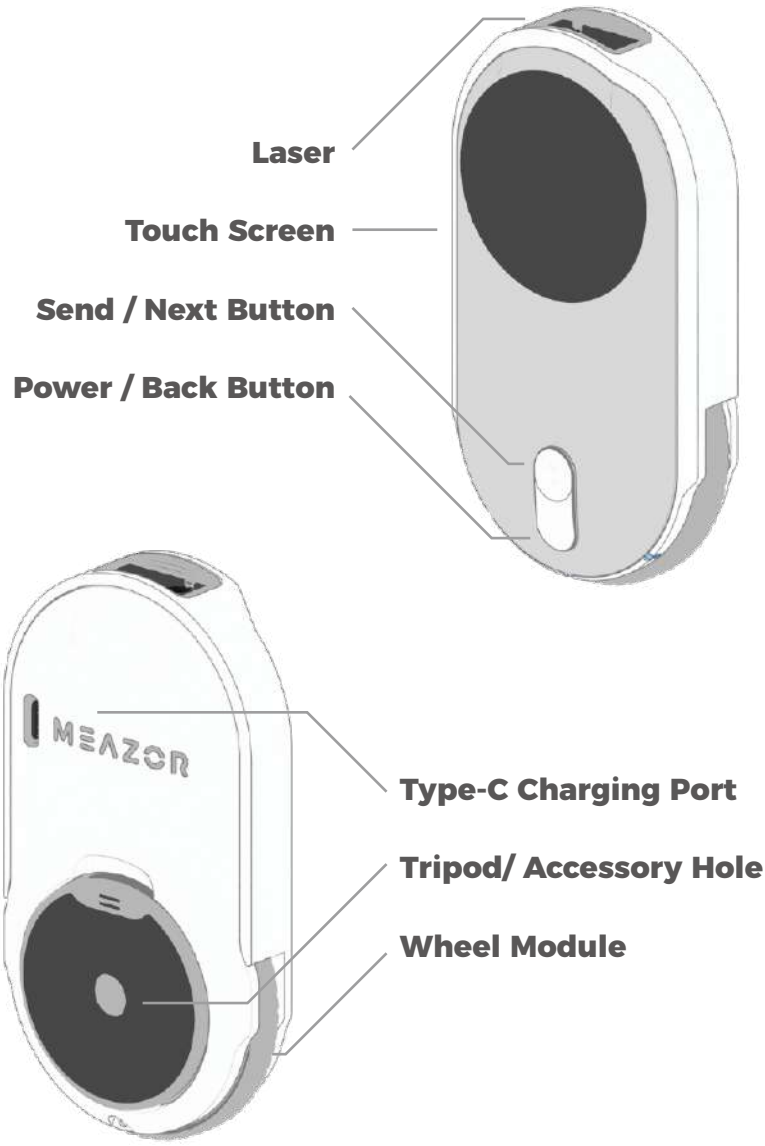
- Please DO NOT use this product in extremely hot (>40˚C) or extremely cold (<0˚C) environments.
- Please DO NOT use this product in an explosive or corrosive environment.
- Please DO NOT use this product near medical devices.
- Please DO NOT use the product on a plane.

Disposal:
This product contains a rechargeable lithium battery, which must NOT be disposed of with household waste. Please dispose of the product in accordance with the national regulations in force in your country/region.

Scope of Responsibility:
We will not be responsible for any damage caused by improper use below:

- Using the product without instruction;
- Use of accessories from other manufacturers without approval from us;
- Carrying out modification or conversion of the product.

BASIC OPERATION

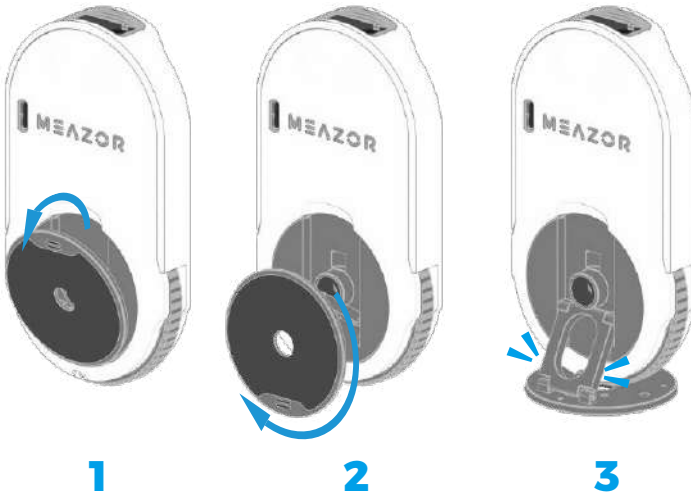


You can swipe left and right on the main menu to switch between functions or toggle the wheel to switch between functions quickly. Tap on the selected function icon to enter the function page.

BASIC OPERATION

Power Button	**2 sec > ON / OFF**
Sleep	**30sec > Sleep**
Turn Off	**2 min > OFF**
Charging	**1.5-2 hrs > 100%**

Open Flip Stand



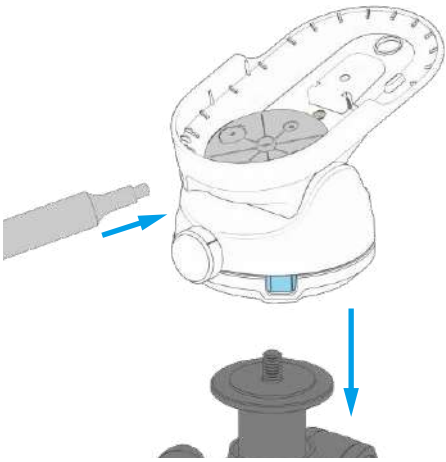
Stand - Flip the back flap. The flap is magnetically attached to the product's frame at an angle of 90˚. The stand allows the user to perform vertical measuring tasks.

SETUP 3D ADAPTER

*** The Ultra 3D Adapter is only included in the combo edition(M0102-U). For standard model (M0102) users, the Ultra 3D Adapter in the picture needs to be purchased separately if required.**

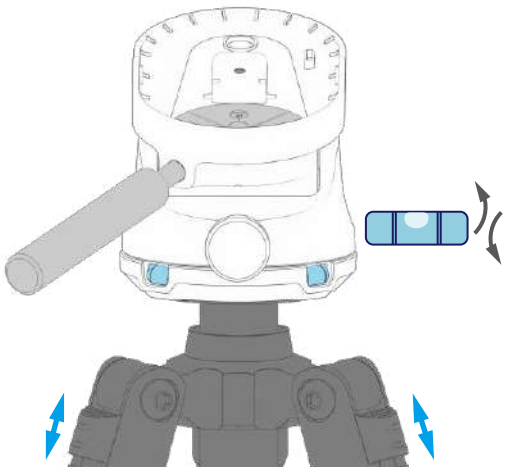
*** The Master Tripod shown in the picture needs to be purchased separately if required.**

1



Mounting the handle and tightening the tripod

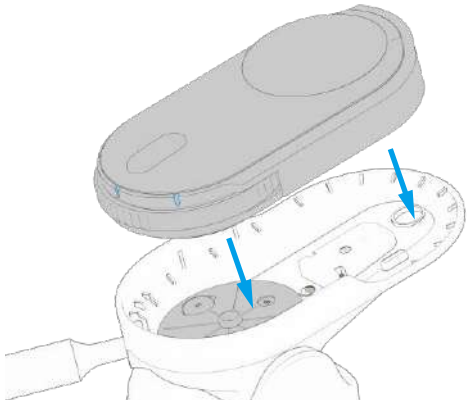
2



Adjust the tripod feet until the two horizontal bubble levels are centered

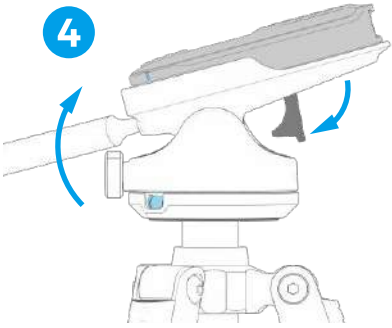
SETUP 3D ADAPTER

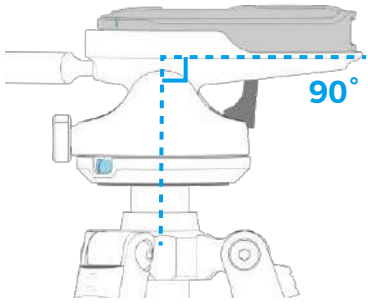
3



Install MEAZOR 3D by magnetically attaching the device to the Adapter. Please make sure to the device is well-coonected to the Adapter and confirm the installation is in place.

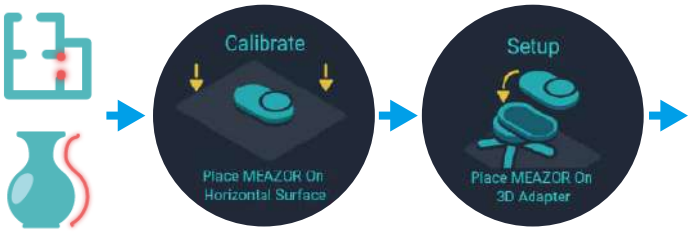
4





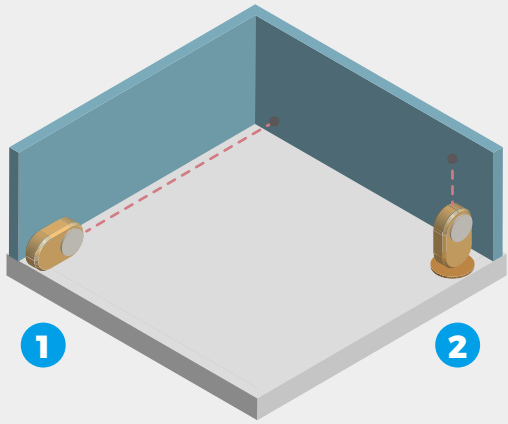
Open the vertical stand and adjust the Adapter until it is level with the ground.

5



Enter the point scanner/curve scanner function, wait 5 seconds for level calibration, and then tap the screen to skip the Setup Guide and to start scanning.

LASER MEASURE

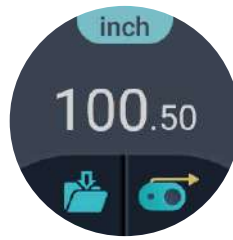


inch **Switch Units**

Save Data

Switch Align Mode

100.5 **Clear / send***



The setting of the measurement units: set at initialization or in the setup page , the user can select between imperial or metric units. When measuring, the user can also switch between units by tapping on the top area. Imperial units include Yard, Feet, Inch, Inch fraction. Metric units include m, cm, mm.

1) BACK ALIGN: measure along the bottom of the MEAZOR's roller as a starting point

2) STAND ALIGN: with the stand open, measure from the bottom of the stand.

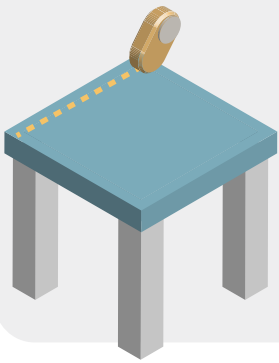
3) TRIPOD ALIGN: measure from the center of the tripod hole

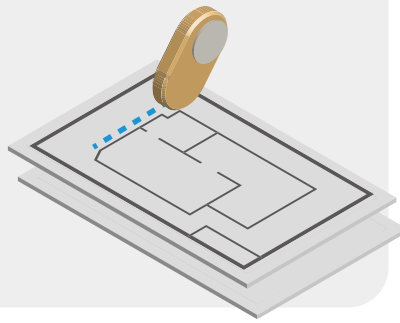
4) FRONT ALIGN: measure from the top of the product.

*Note:
- If MEAZOR 3D is connected via Bluetooth to MEAZOR/3rd party App, press the middle section (measuring result) or press the Record Button. It will record and send data to the connected App. If not connected via Bluetooth, pressing the middle section will clear data.
- If MEAZOR 3D performs a measuring task offline (not connected to App), please press Save Data on the touch screen to record measuring results to the built-in data storage.

ROLLING RULER

1) MEASURE OBJECT (1:1)
2) MEASURE IN SCALES (58 scales total)





inch **Switch Units**

Save Data

Scale Setting

1:100 **Current Scale**

100 33/64 **Clear / send***

The scale mode includes four scale modes (selected in the setting menu), a total of 58 measurement scales

US-ARCH	US-ENG	METRIC-ARCH	METRIC-ENG
1/16" = 1'	1" = 1"	1:1	1:100
3/32" = 1'	1" = 10'	1:2	1:125
1/8" = 1'	1" = 20'	1:3	1:150
3/16" = 1'	1" = 30'	1:4	1:200
1/4" = 1'	1" = 40'	1:5	1:250
3/8" = 1'	1" = 50'	1:10	1:300
1/2" = 1'	1"= 60'	1:20	1:400
3/4" = 1'	1" = 70'	1:25	1:500
1" = 1'	1" = 80'	1:30	1:1000
1 1/2" = 1'	1" = 90'	1:40	1:1250
2" = 1'	1" = 100'	1:50	1:1500
3" = 1'	1" = 166.6'	1:72	1:1625
4" = 1'	1" = 200'	1:75	1:2000
6" = 1'	1" = 250'	1:100	1:2500
1' = 1'			1:5000

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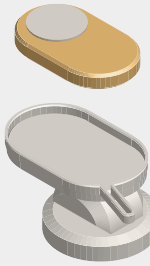
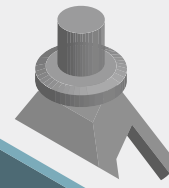
POINT SCANNER



Use Master Tripod for better result (sold seperately)

1) Installation

2) Start to Scan

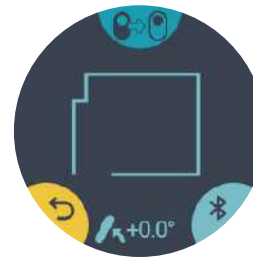


As shown in the diagram, place the MEAZOR 3D in the middle of the room. Align the laser beam with point 1 and tap on it to record the first reference point, turn and align it with point 2, record, rotate, and align it with points 3,4,5 and record each time. After completing the above steps, all the reference points of the room are captured. After tapping on save , the data will be sent to the MEAZOR APP.

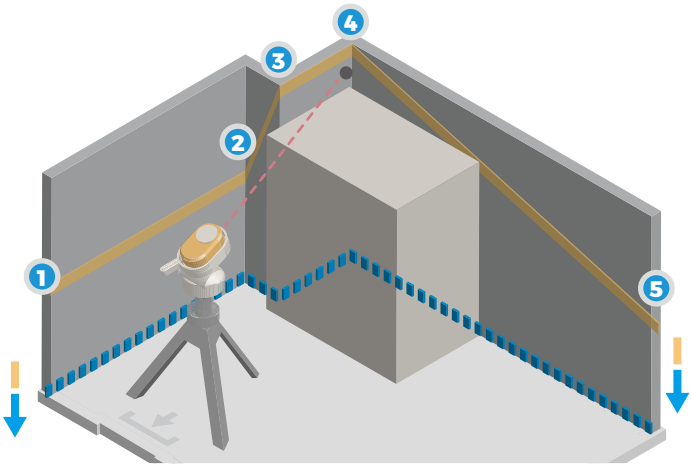
Undo

Send Data

Displacement Mode

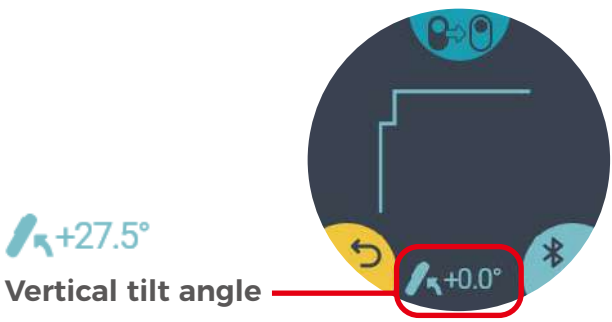


+27.5° Tilt Mode



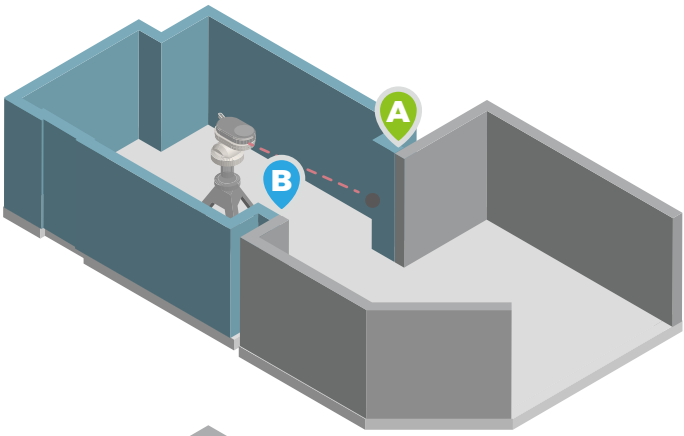
Suppose an obstacle is placed in between the line towards a reference point. In that case, Tilt Mode is automatically switched on while vertically lifting up or down the device with the support of Ultra 3D Adapter.

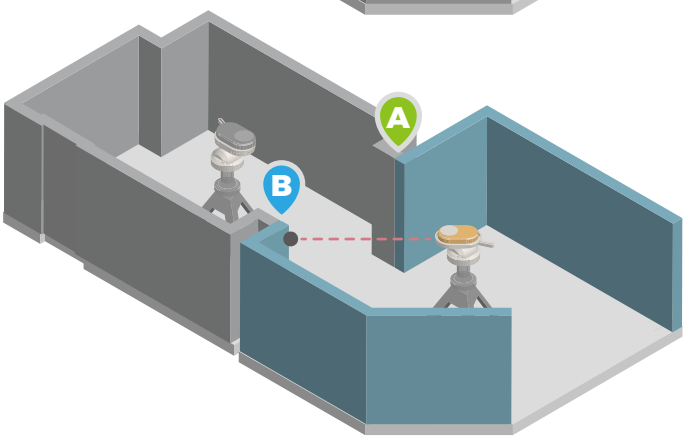
e.g., as shown in the diagram, the user needs to capture reference points 1-5 to avoid the obstacle at the corner and plot the complete floorplan. With Tilt Mode's algorithm, the measuring result will appear like the floorplan in the blue outlines shown above.



***The Ultra 3D Adapter is required to use Tilt Mode.**
****HOZO assumes no responsibility with regard to the measuring result accuracy if the measuring tasks involve Tilt Mode, but the user fails to use the Ultra 3D Adapter.**
*****HOZO assumes no responsibility with regard to the selection, performance, or use of third-party accessories. HOZO makes no representations regarding third-party accessories' accuracy or reliability.**

Displacement Mode





When you are scanning a complex room with the MEAZOR 3D , and the obstruction of the walls stops the laser beam from measuring the full extent of the room, you can turn on the Displacement Mode to measure more space by moving the MEAZOR 3D around. Please carefully read the steps for using this function.

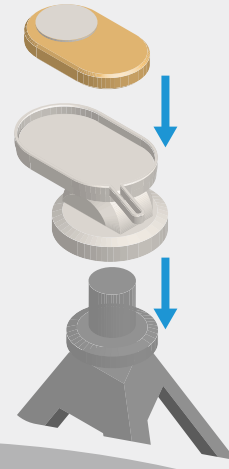
1) Before the MEAZOR 3D is displaced, identify reference point A and reference point B.

2) Move MEAZOR 3D to a new position.

3) Confirm the new position of MEAZOR by rotating the MEAZOR 3D to reposition points A and B.

4) Continue to complete the scanning.
***Note: After the MEAZOR 3D has been moved, the system will continue scanning along the last endpoint of the previous measurement.**
****Using MEAZOR 3D Reusable Target Plates is recommended to facilitate Displacement Mode to get better results while capturing reference points.**

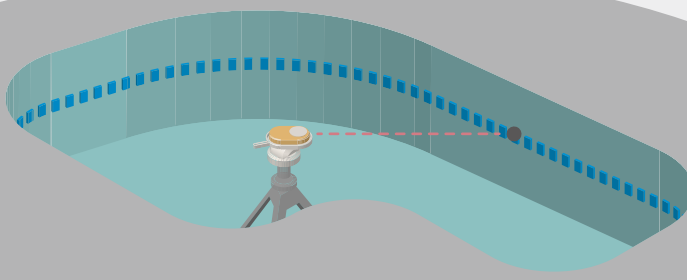
CURVE SCANNER



Use Master Tripod for better result (sold seperately)

1) Installation

2) Start to Scan



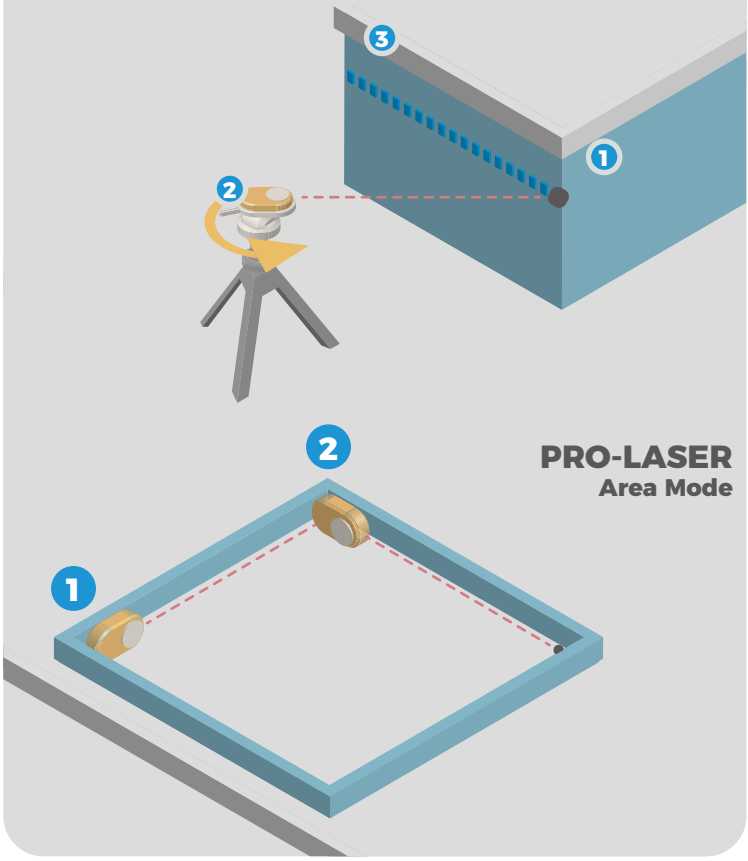
As shown in the diagram, place the MEAZOR in the middle of the room. Align the laser beam with the start-point and tap on it to record the first reference point, slowly rotating MEAZOR 3D to the end-point.

Undo

Send Data

+27.5° Tilt Mode

PRO-LASER
Pythagorean Mode



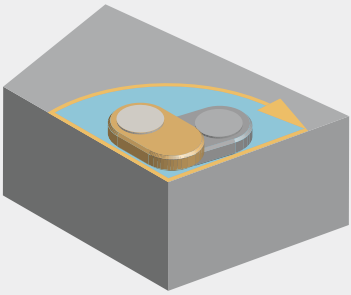
PRO-LASER
Area Mode

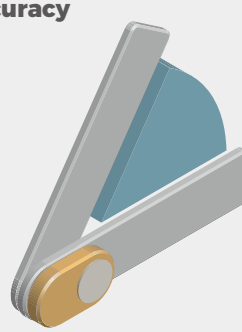
Pythagorean Mode (horizontal angle ONLY) – Measure side A, side B, and the angle ∠ab. The length of the third side is automatically calculated.

Area Mode – Measure the length A and the width B. The area is automatically calculated.

PROTRACTOR

1) Rotate wheel to measure angle
2) Laser line to improve accuracy





Need protractor accessory (sold seperately)

Place MEAZOR 3D on a flat surface, rotate MEAZOR 3D to measure the horizontal angle. While the angle is being measured, MEAZOR 3D's laser module can be used to locate the start/endpoint of the angle.

▸ 0.0°◂ **Back to zero**

Laser-assisted positioning

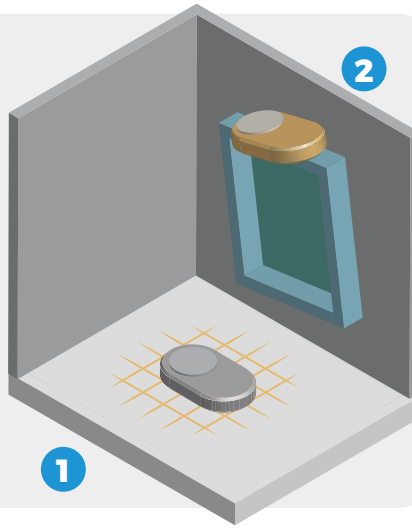
Degree/Index Mode

The MEAZOR Expert Protractor Accessory (sold separately) can also be used for more accurate angle measurement.

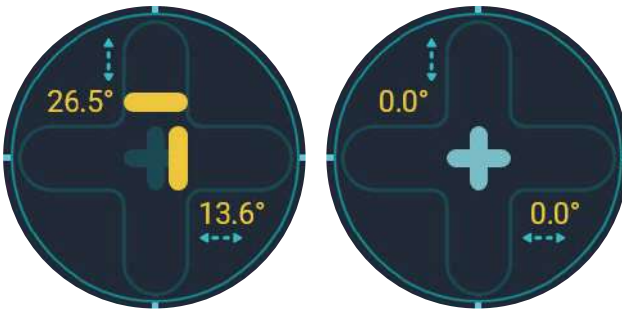
LEVEL

1) Calibrate on Floor

2) Start Leveling



Place MEAZOR 3D on a flat surface to use the electronic level function of MEAZOR 3D. When the level is close to 0˚ (< ± 1˚), the light point turns blue.



Horizontal axis: Tumble angle / Vertical axis: Tilt angle

MEAZOR APP

Available on the App Store

ANDROID APP ON Google Play

Connect to MEAZOR APP

MEAZOR APP is a free app and can be connected to MEAZOR series products. Receive surveying data and edit it. After entering the MEAZOR APP, create a new project. And click the Bluetooth icon in the upper right corner to connect to MEAZOR 3D.

HOZO | DESIGN