

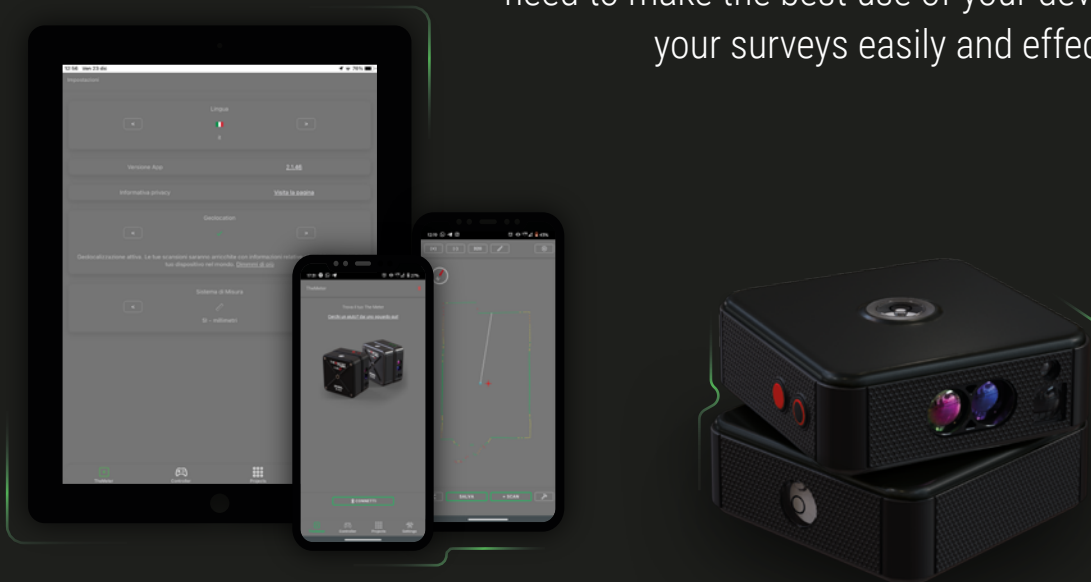
USER GUIDE

Valid for CUBE, CUBE pro, CUBE 2, CUBE 2LT

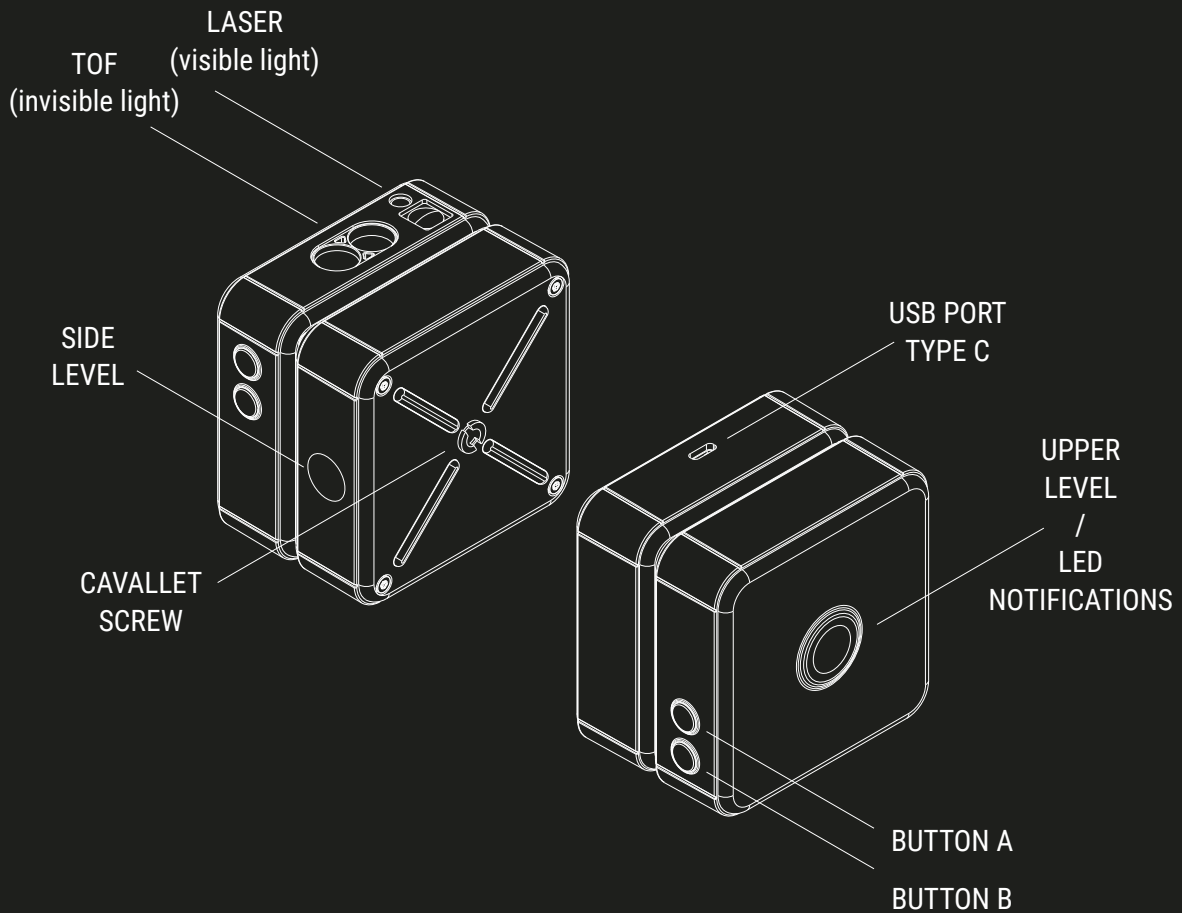


Welcome to the User Guide for the CUBE series of THE METER's devices









This manual will take you through the discovery and use of the CUBE series, designed to make measurements of environments with the highest accuracy and to eliminate human error. Inside you will find a complete description of the hardware components and available features, as well as instructions for installing and using The Meter and The Meter Doctor applications, essential tools for managing your device. The guide will help you understand how to take advantage of different modes of operation, such as automatic, manual, and real-time surveys, and will offer you practical guidance on how to export acquired data in various formats. In addition, there are included all the information you need to properly calibrate your CUBE and keep it in optimal condition, ensuring reliable results every time. With this manual you will have everything you need to make the best use of your device and manage your surveys easily and effectively.










What is your **CUBE** made up of? Here below the hardware component list



















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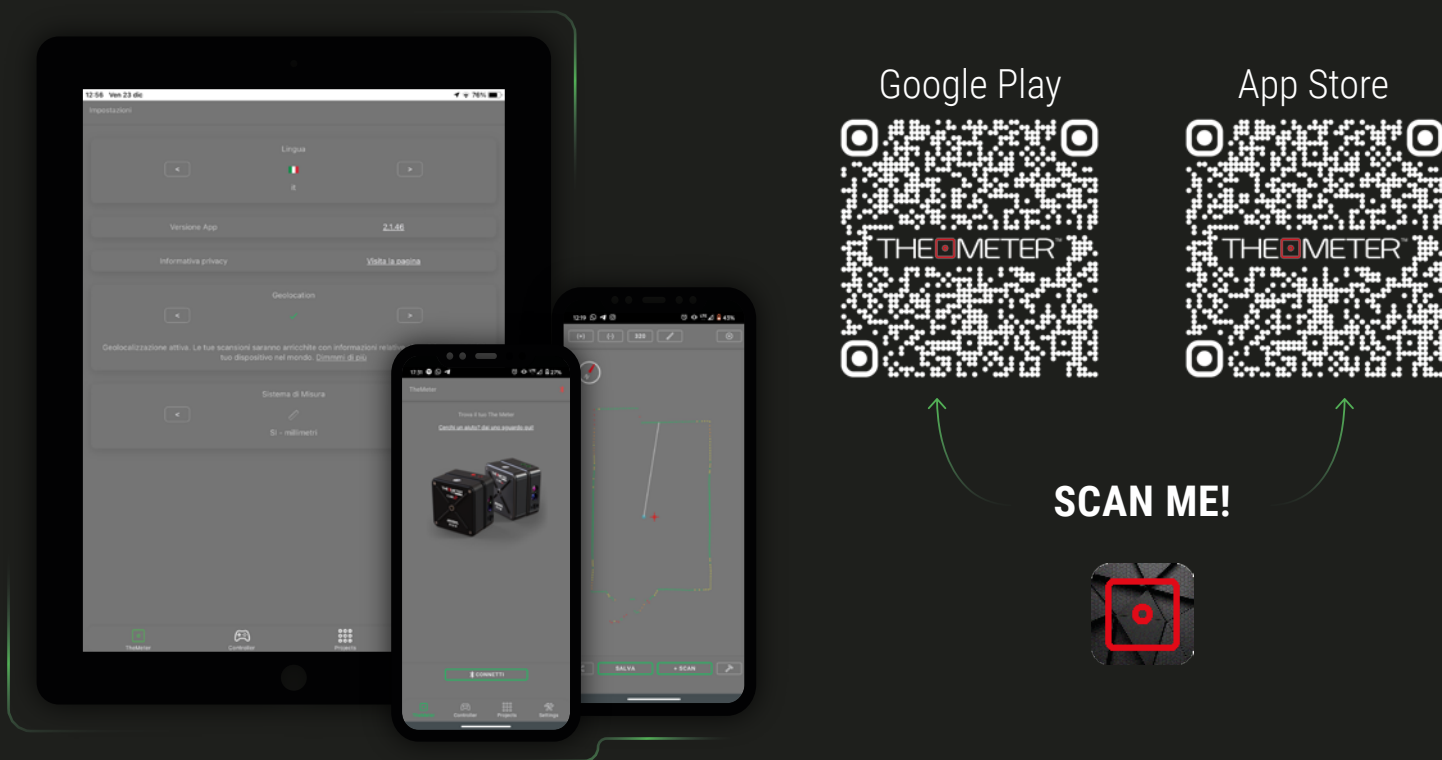
CONSIGLIO




AVVISO

APP THE METER


Welcome to the guide of **The Meter app!** If you haven't downloaded it yet, you can find it at **Google Play** or **Apple Store**, or by scanning the **QR code** below. With the **app The Meter** you can acquire and manage all your measurements from the comfort of your smartphone or tablet: just connect your mobile device via bluetooth to your **CUBE** and use the features available from the various modes



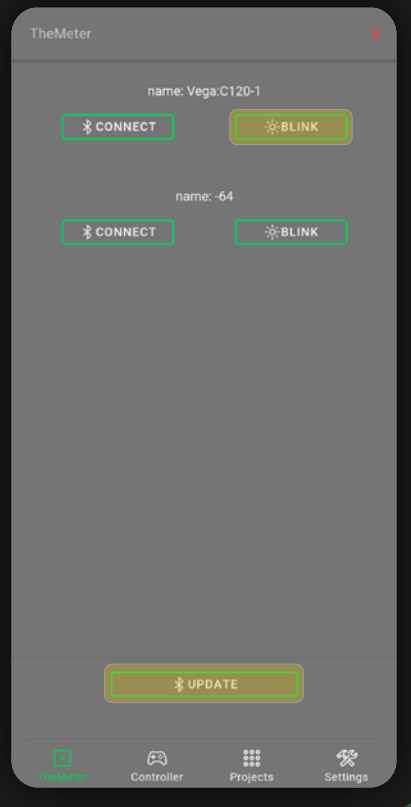
The image displays the app's user interface on three devices: a tablet on the left showing settings like 'Lingua' (Italian), 'Versione App' (2.1.66), and 'Sistema di Misura' (Si - millimetri); a smartphone in the center showing a 'Tabelle' screen with a 'CONNETTI' button; and another smartphone on the right showing a measurement graph. To the right of the devices are two QR codes labeled 'Google Play' and 'App Store', both featuring the 'THE METER' logo. Below the QR codes is a red 'SCAN ME!' button with a camera icon, and green arrows point from the QR codes towards the button.



TheMeter  screen allows you to manage the connection to your device and access video tutorials, available on our YouTube channel




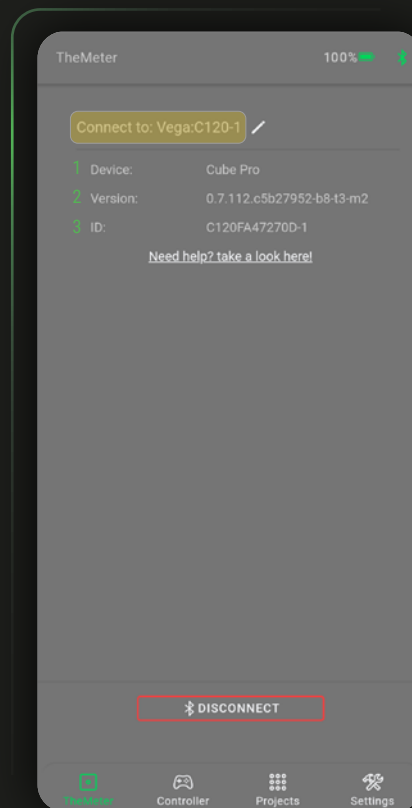
To connect your smartphone turn on the **CUBE** holding down the button A until the led turn green, then click  on the application

In case there is more than one **CUBE** nearby the application will return you the list of devices it finds, giving you the possibility to choose which one you want to connect to.




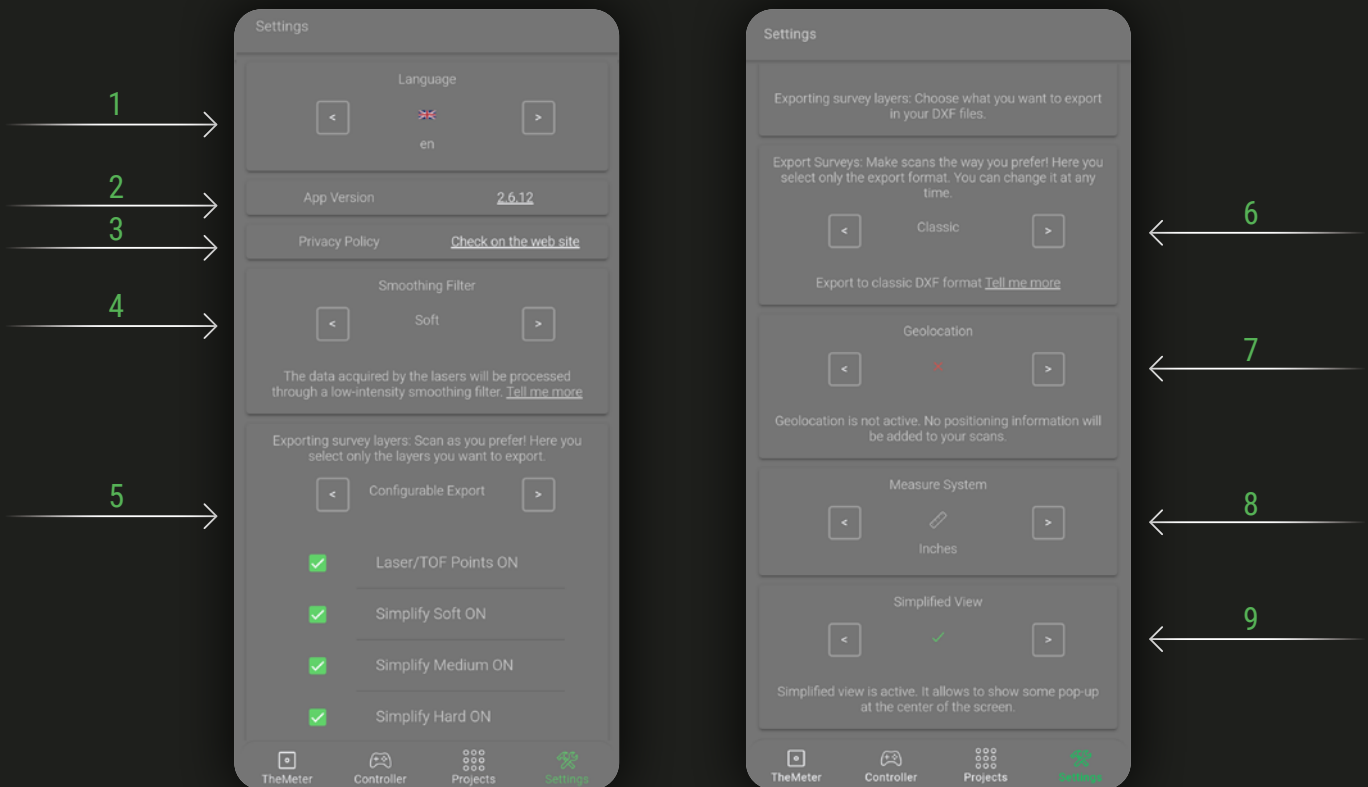
To identify more precisely which device you are connecting to, you can use the function  which will make flash white the upper level led of the chosen **CUBE** for 5 seconds. With  you can update the Bluetooth option

When you have completed connecting to the device you can see its name on the screen, editable by clicking on , and the details on Model¹, Firmware version² and serial number³



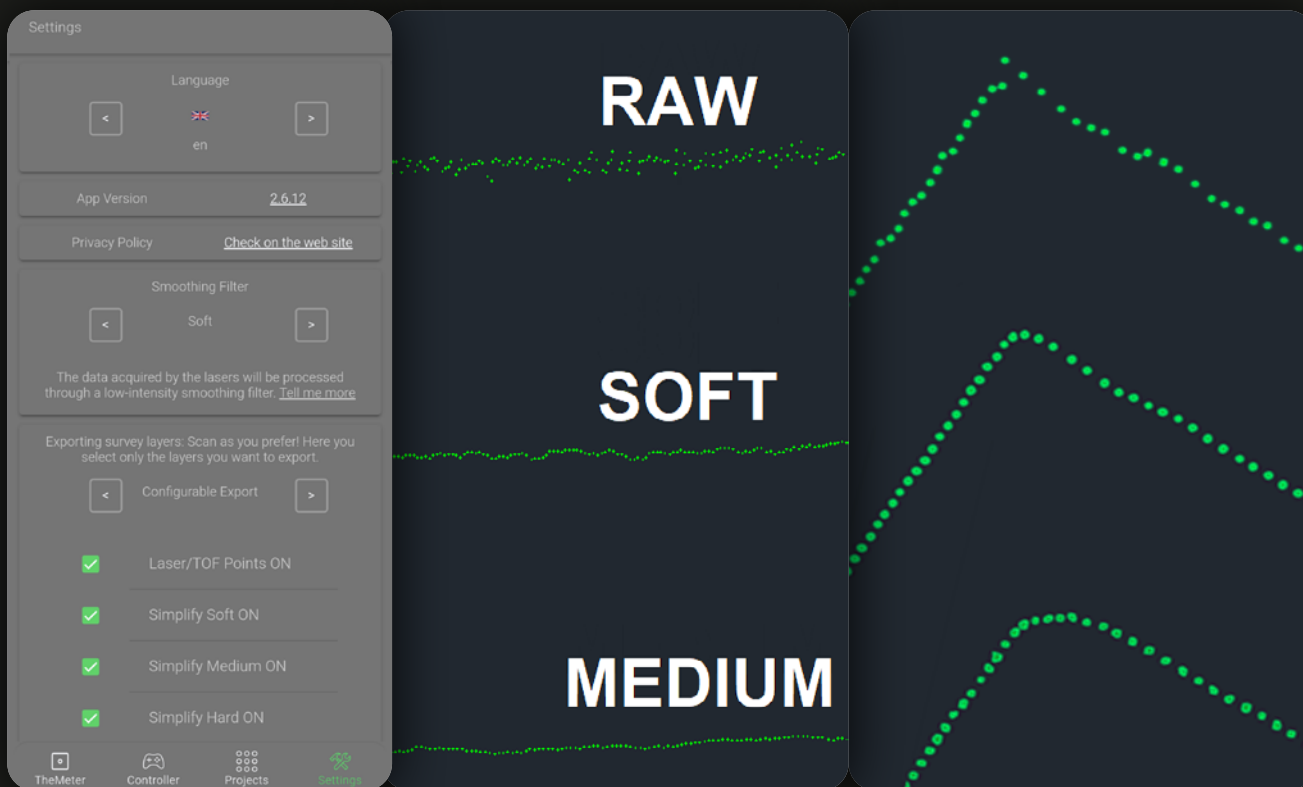
In case the connection fails due to several attempts, try restarting both devices.

From the Settings  screen you have the ability to change the language¹, access the app update summary page², the privacy policy page³ and to change the Smoothing Filter setting⁴



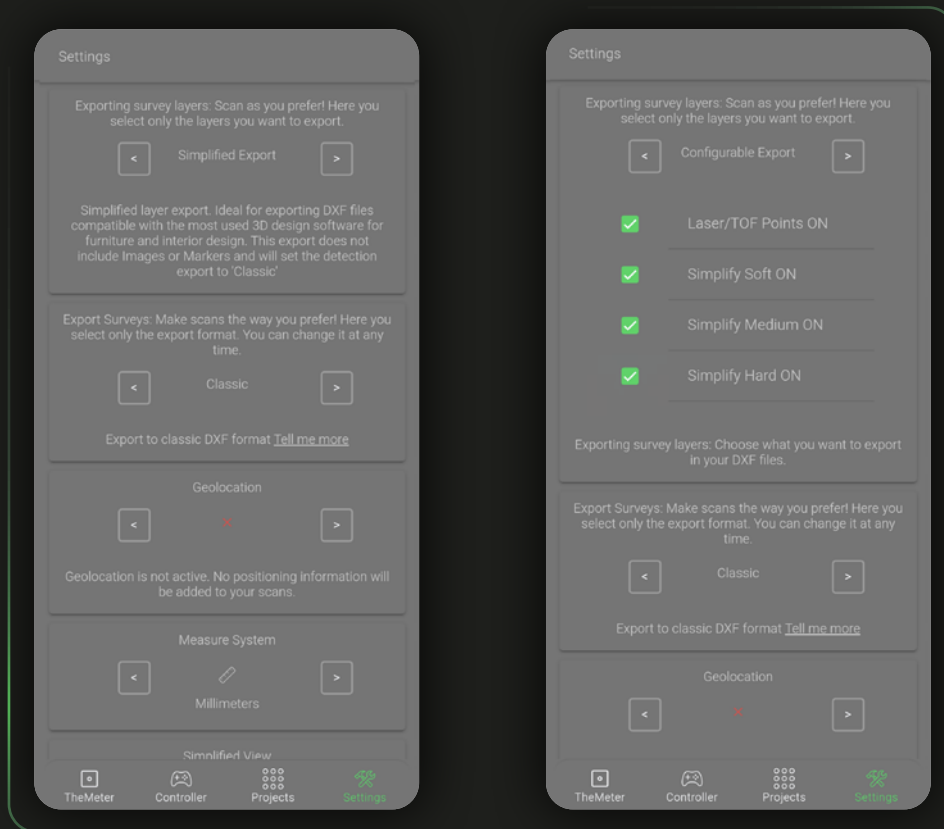
You can also choose which layers to export to your DXF⁵, the export format you want to use⁶, enable or disable geolocation⁷, change the preview and export unit of measure⁸ and enable or disable the Simplified View⁹

Smoothing filters act on the data contained in the scans only during the export by going to filter the detected points, without changing the original data, to eliminate possible background noise. Set to Raw the data will be exported Original, Soft and Medium will reprocess the data at two different levels of “intensity”



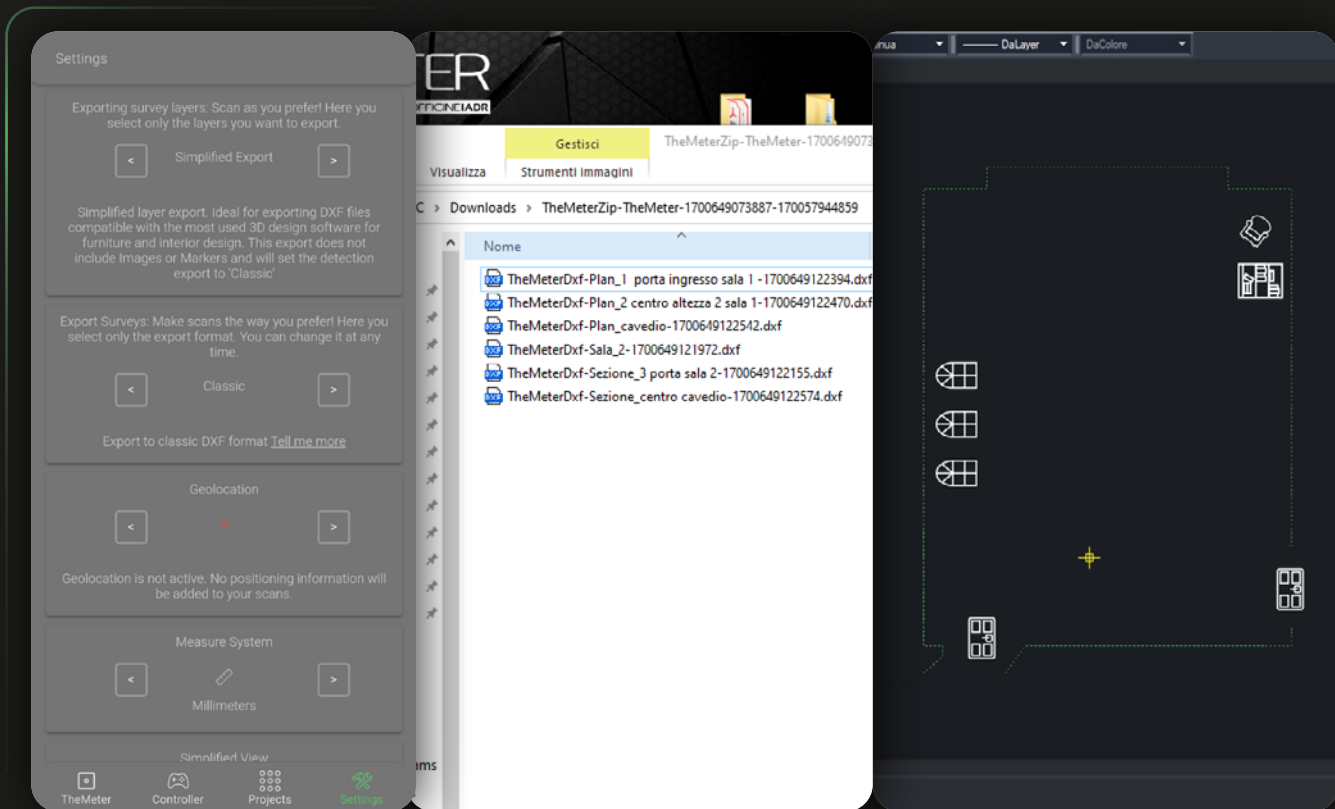
Depending on the smoothing filters used, it will be less obvious some scanned details, such as edges or tiles that in the Medium version turn out to be very blunt

In Export Layers you decide which layers to have in the DXF resulting from the export of the scans made with your CUBE, without going to change the original data. Simplified Export eliminates additional content such as markers or photo documentation, even in the form of external attachments by constraining the export format to “Classic”



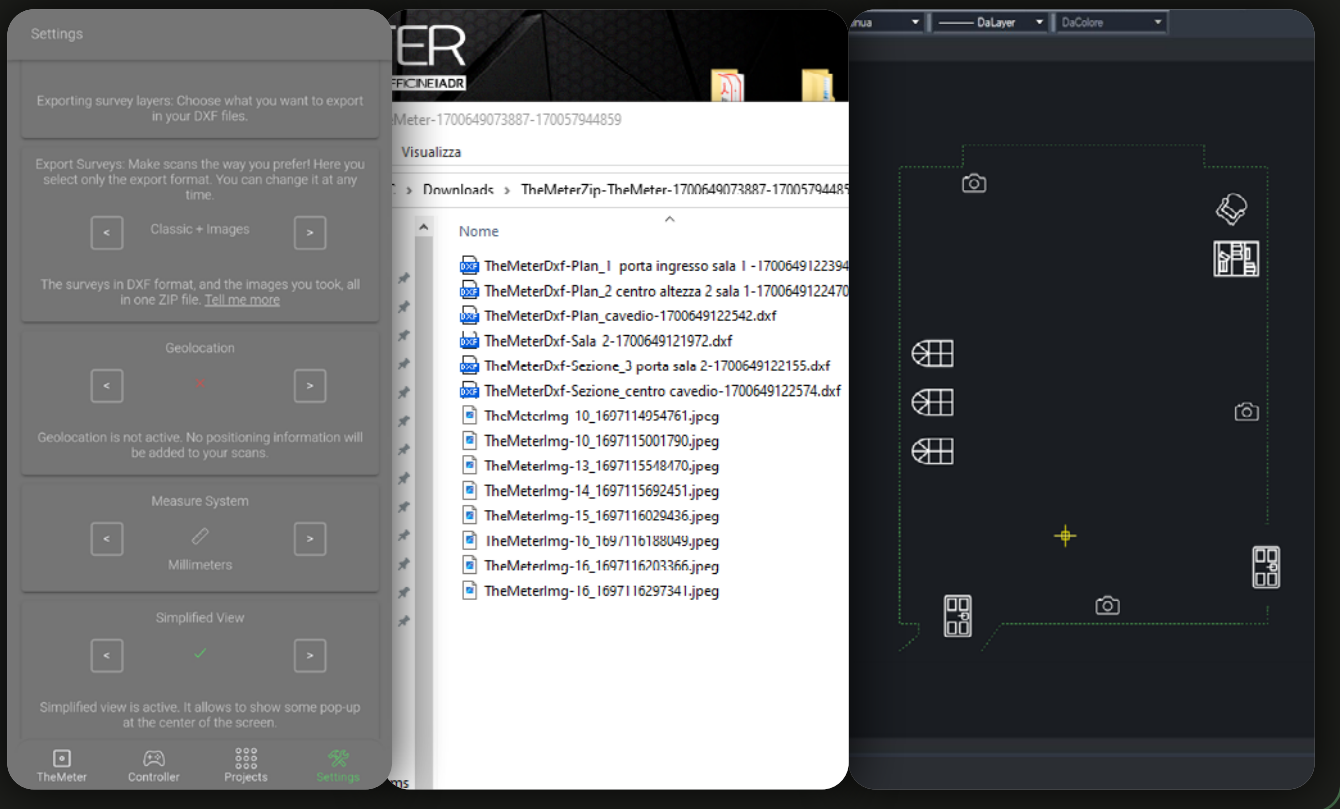
The resulting export will be a DXF containing only simplified polylines, based on the scanned points, called Lines_Soft, Medium, and Hard. The configurable instead allows you to choose which Layers you want to have in the DXFs exported, also leaving the choice of export format free

Export settings allow you to make your photographic documentation compatible with the CAD software you used to use, since not all CAD programs handle image insertion. There are three settings: Classic, Classic + Images, NextGen



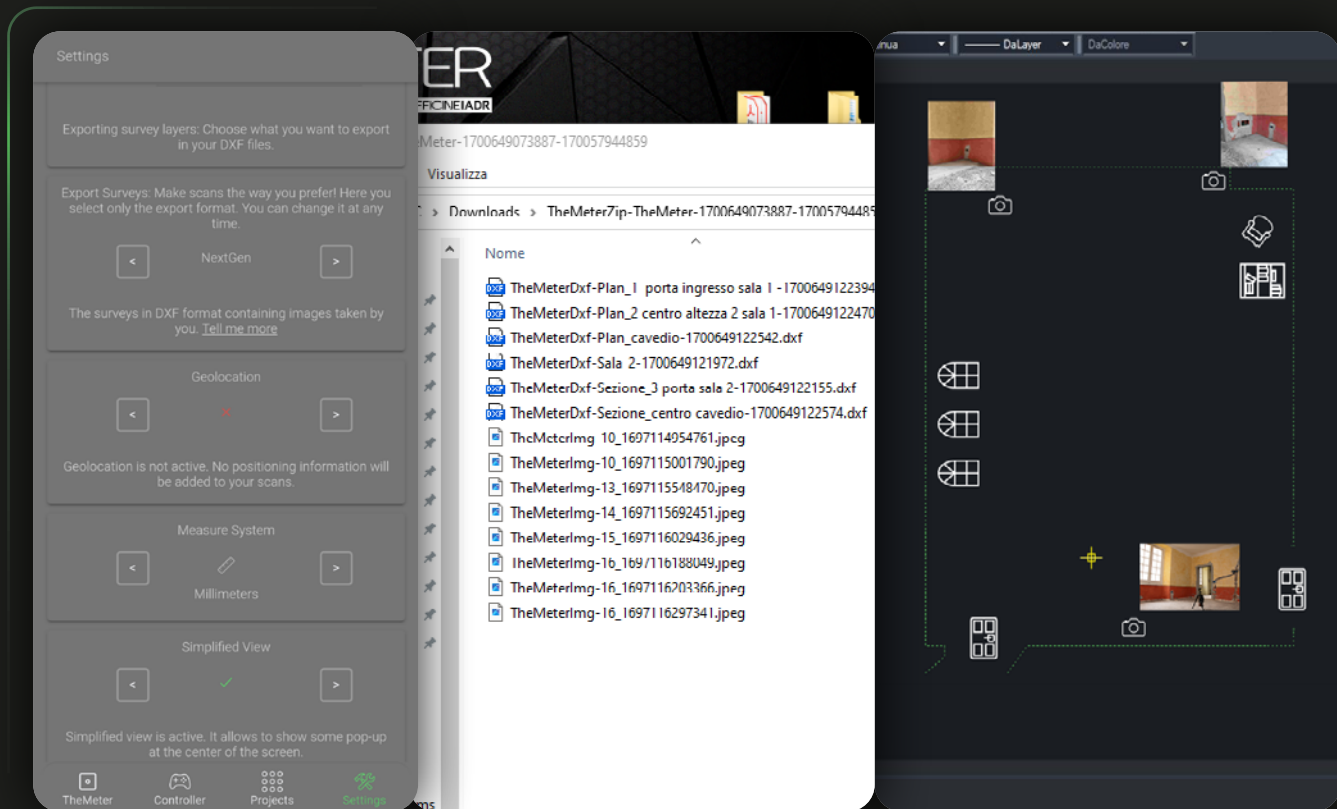
By activating Classic mode, sharing a single survey, with or without photos, will export a classic DXF, without any photos in the survey. Similarly, an entire project will be shared as a ZIP containing all the surveys in DXF format without the presence of any photos

The “Classic + Images” mode allows you to export scans and images taken all into one ZIP file. If photos have been added, you will find a classic DXF and all photos in JPEG format in the ZIP. In the DXF there will be markers in the shape of a camera and for each one a label having the name of the related JPEG



Without adding photos during or after the survey, the exported file will be a simple DXF. In case an entire project is shared, it will be in ZIP format, containing the scans in DXF format and possibly the photos in JPEG format. In the DXFs you will find markers in the shape of a camera each having the name of the related JPEG

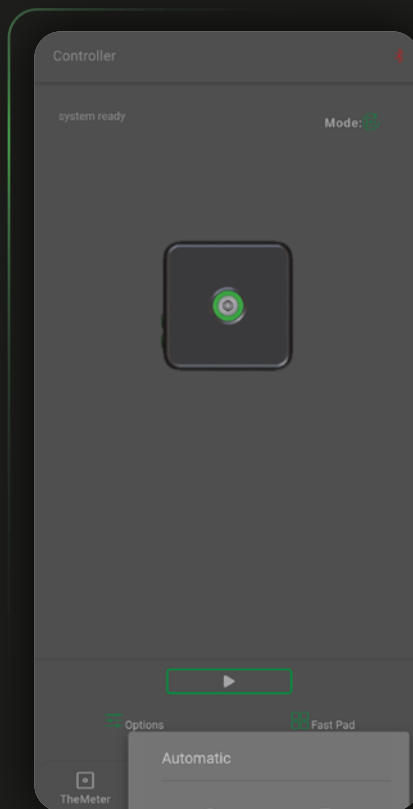
“NextGen” mode exports the surveys in DXF format with inside the photos taken. If during or after the survey were added photos, the exported file will be a ZIP inside which you will find a DXF, containing your images, and all photos in JPEG format



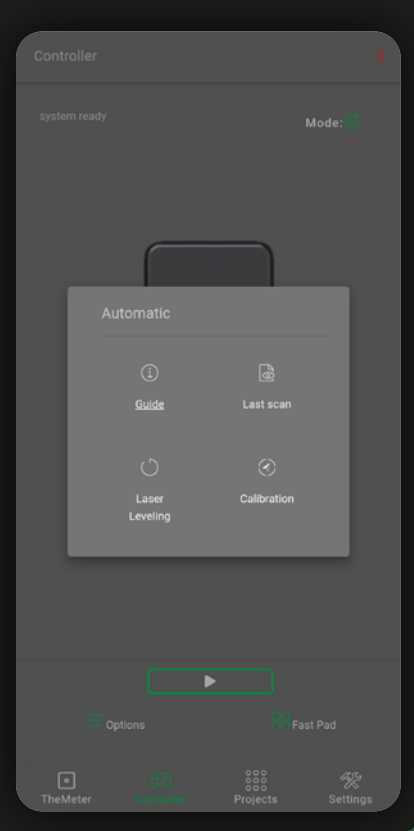
If no photos were added during and after the survey the exported file will be a simple DXF. In case a project is shared it will be in ZIP format inside which you will find the DXFs, containing your images, and all the photos in JPEG format

You need to enable Simplified View in case of issues with the popup display in the app: move all popup windows to the center of the screen, to ensure they are displayed

Display issue



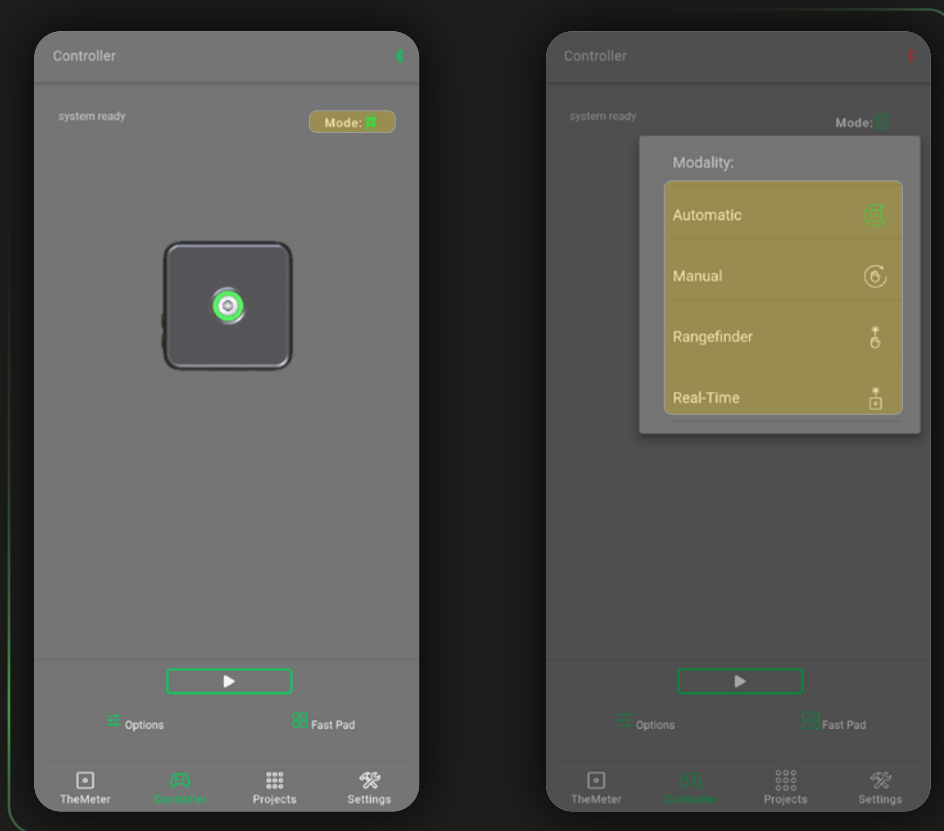
Simplified View enabled



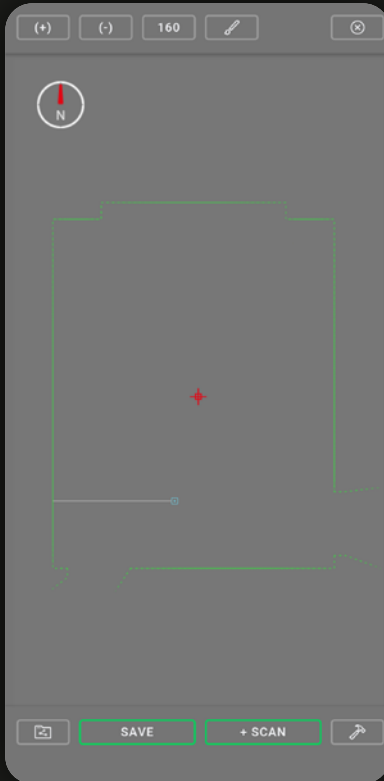
The image on the left is just an example, you may experience different display issues


CONTROLLER 🎮

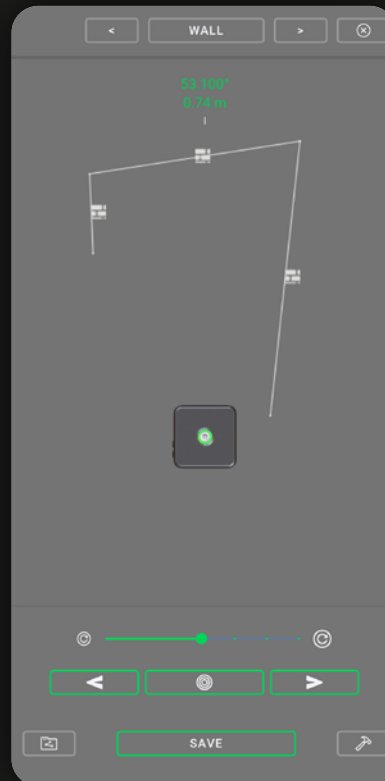
The Controller screen 🎮 allows you to use and manage the various operative modes of **CUBE**, selectable by clicking on **Mode:**




The button **Mode:** indicates the active mode; At the start of the app you will always be in the automatic mode



CONTROLLER 

1. Automatic : For floor plans and sections detected by the device automatically by returning a point cloud




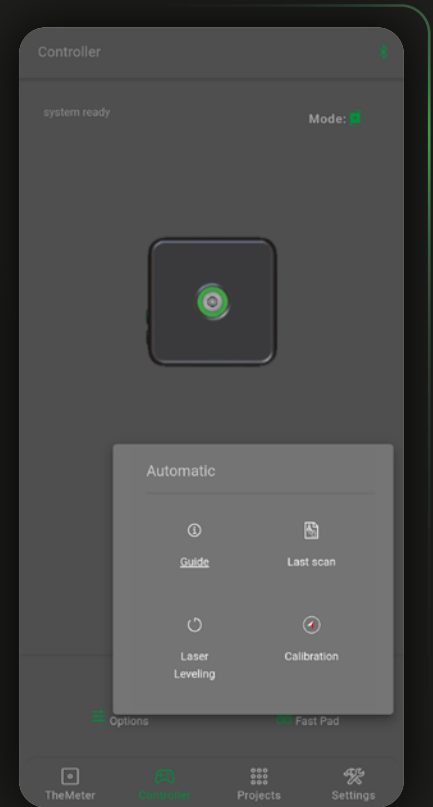
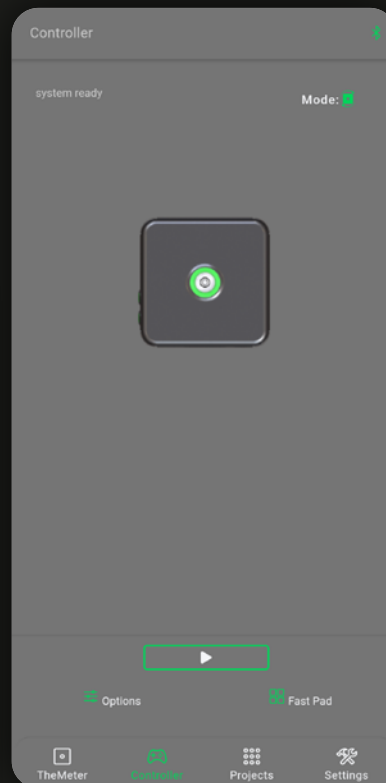
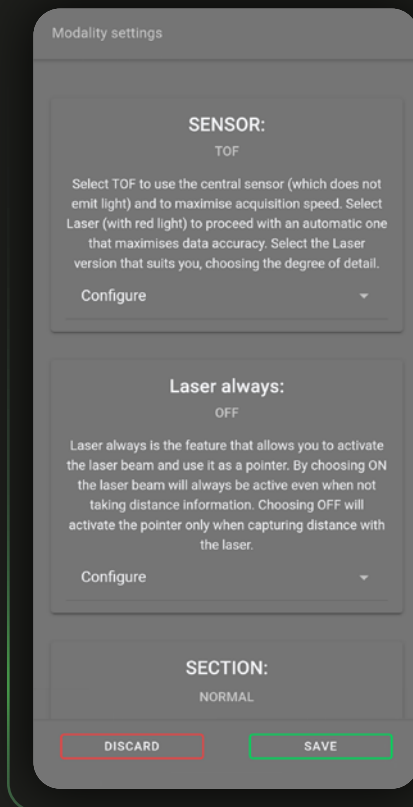
2. Manual : you choose the points with which to create your own surveys




3. Rangefinder  and Real-Time : acquire any distance in single or continuous mode


CONTROLLER 

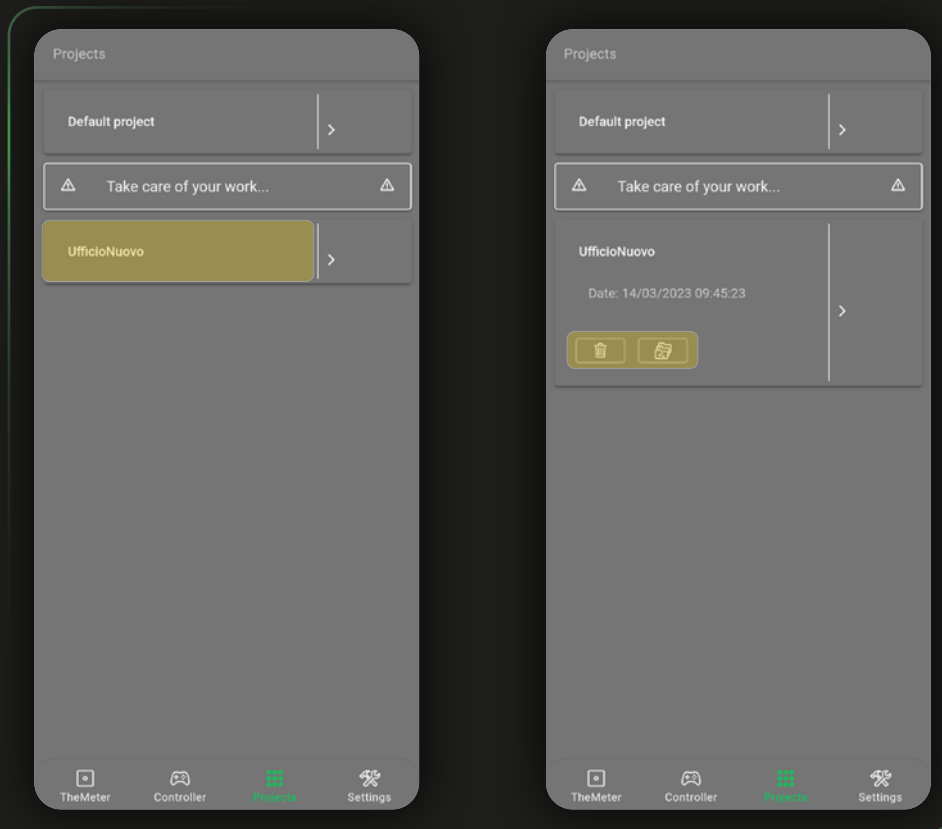
In the Fast Pad  menù you can take advantage of additional features of the modes









Via Options  you can edit the mode settings active at that moment

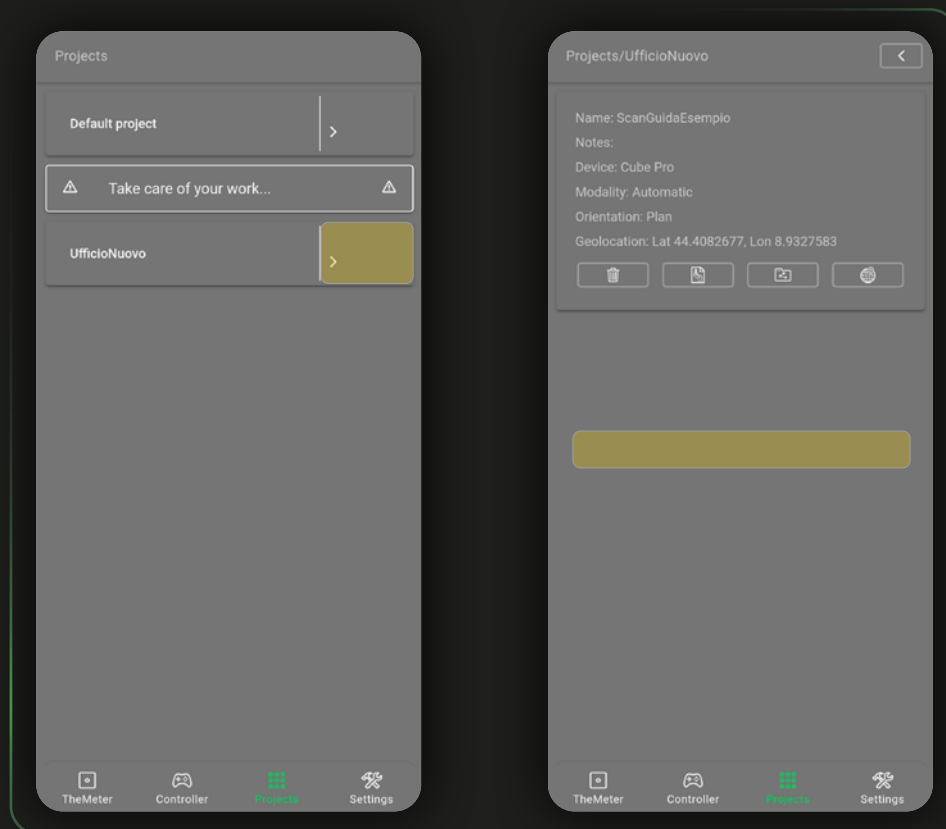
PROJECTS 

In Projects  screen you will find folders of all saved projects in the app's memory, containing your scans; "Default Project" is an example of a folder with files



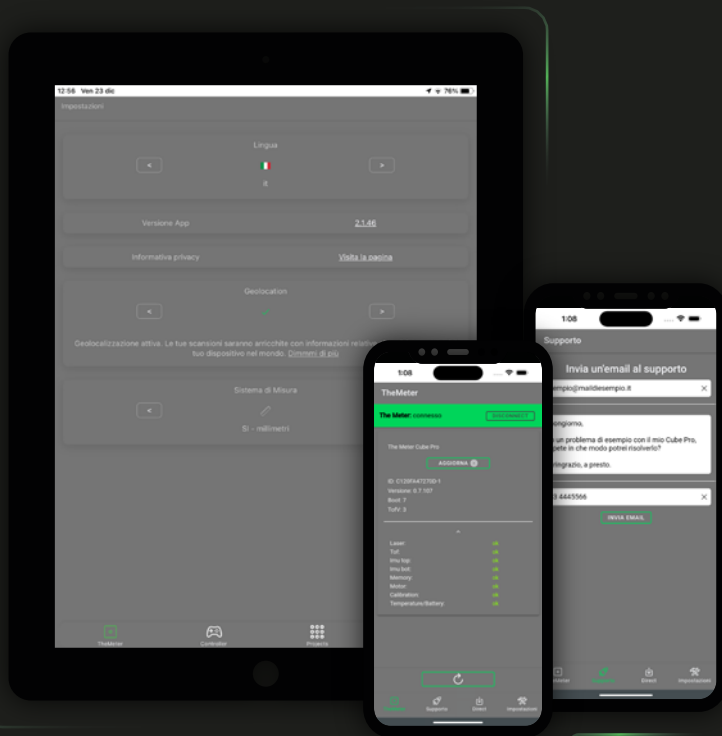
By clicking on the name of the folder you can see information about the date and time of creation, and also you can delete it  or share it 

Clicking on the right button you can find the list of surveys, with the possibility to delete , review  or share  each files, and to know them geolocation by clicking on 

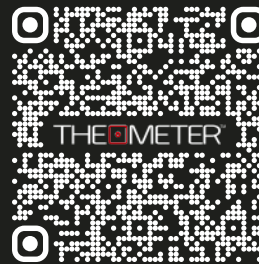


APP THE METER DOCTOR

Welcome to the guide of **The Meter Doctor app!** If you haven't downloaded it yet, you can find it at **Google Play** or **Apple Store**, or by scanning the **QR code** below. With **The Meter Doctor** you can update the firmware of your **CUBE**, know the operating status of its components and contact our team to ask technical support!



Google Play




App Store




SCAN ME!

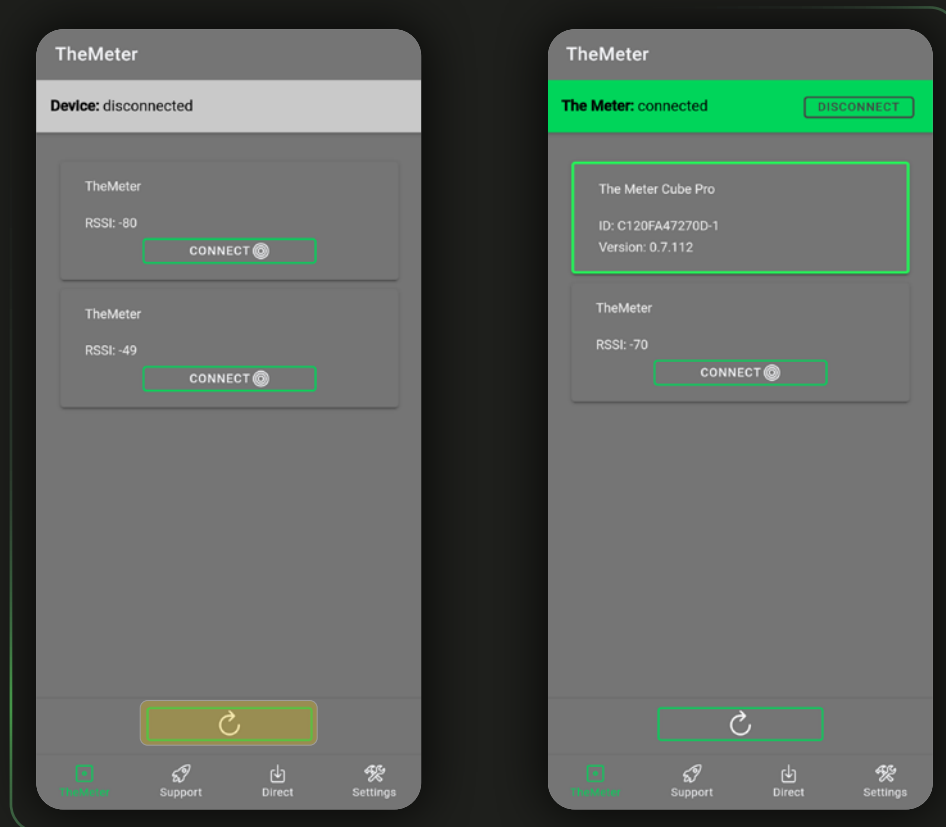



TheMeter  screen allows you to manage the connection to your device and access video tutorials, available on our YouTube channel




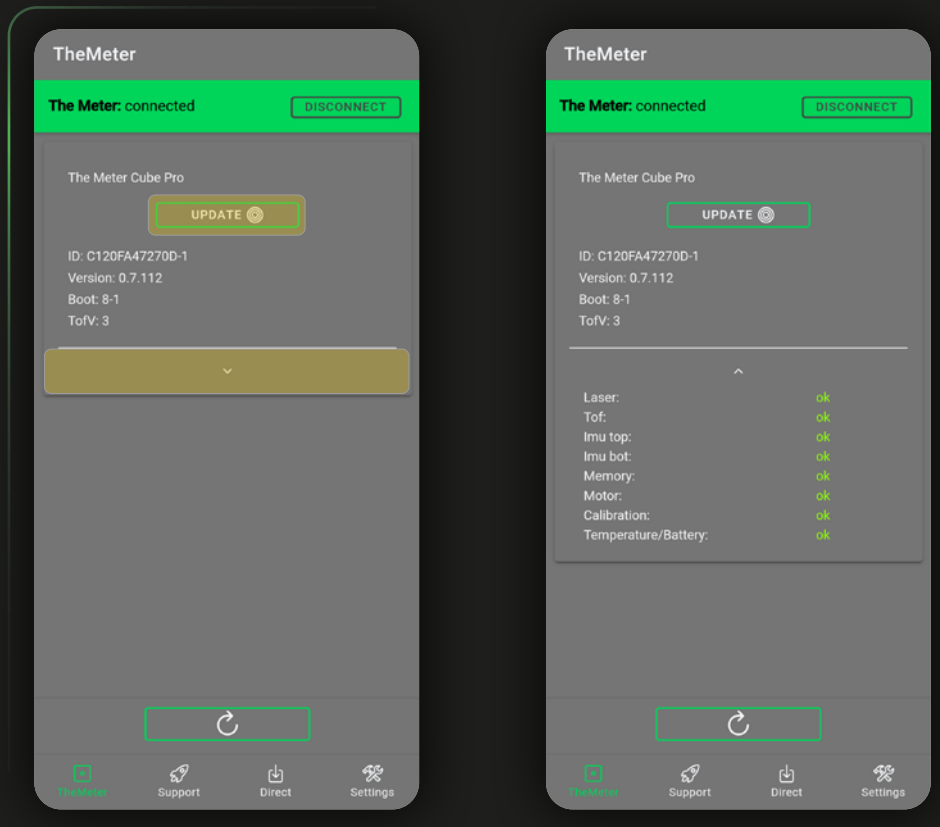
To connect your smartphone turn on the **CUBE** holding down the button A until the led turn green, then click  on the application

In case there is more than one **CUBE** nearby the application will return you the list of devices it finds, giving you the possibility to choose which one you want to connect to.




With  you can update the Bluetooth research. If you run an update after connecting to one of the devices it will be highlighted

Once you have completed connecting to the device you can see on the screen its number of series, the firmware version, the Boot version, and the TOF firmware version; you can proceed with firmware updates by clicking on 

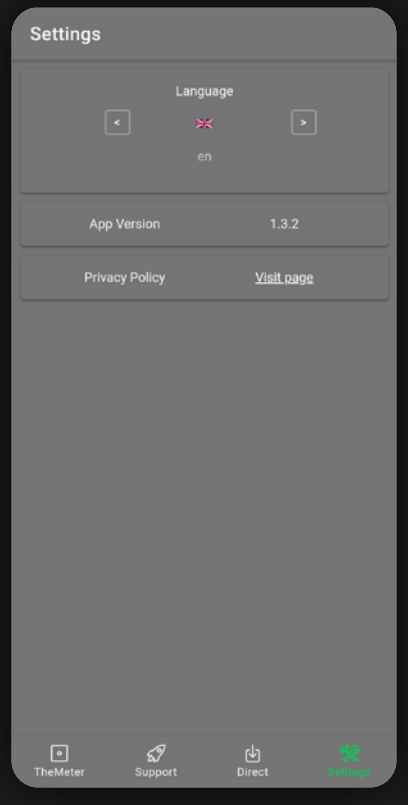


Clicking the button below the **CUBE** details will show you the list of components, indicating active or failing status


From the Settings screen  we can change the language¹, view TheDoctor app version² and to that of the privacy policy³

1. Changing the language

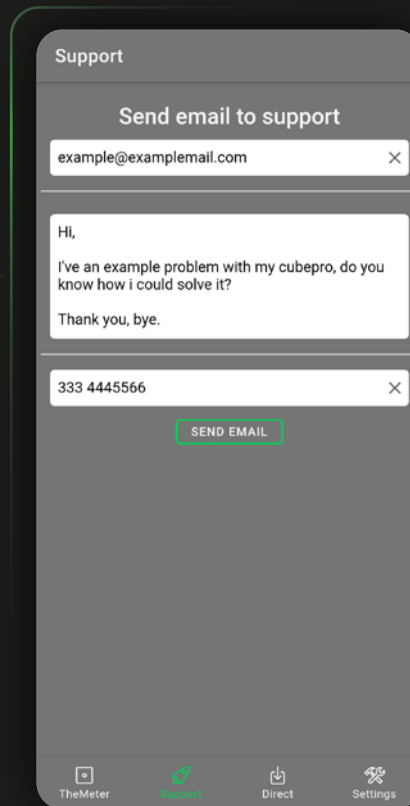
3. Privacy Policy



2. App version

From the Support  screen you have the possibility to contact THEMETER team by email

2. Enter here your issue




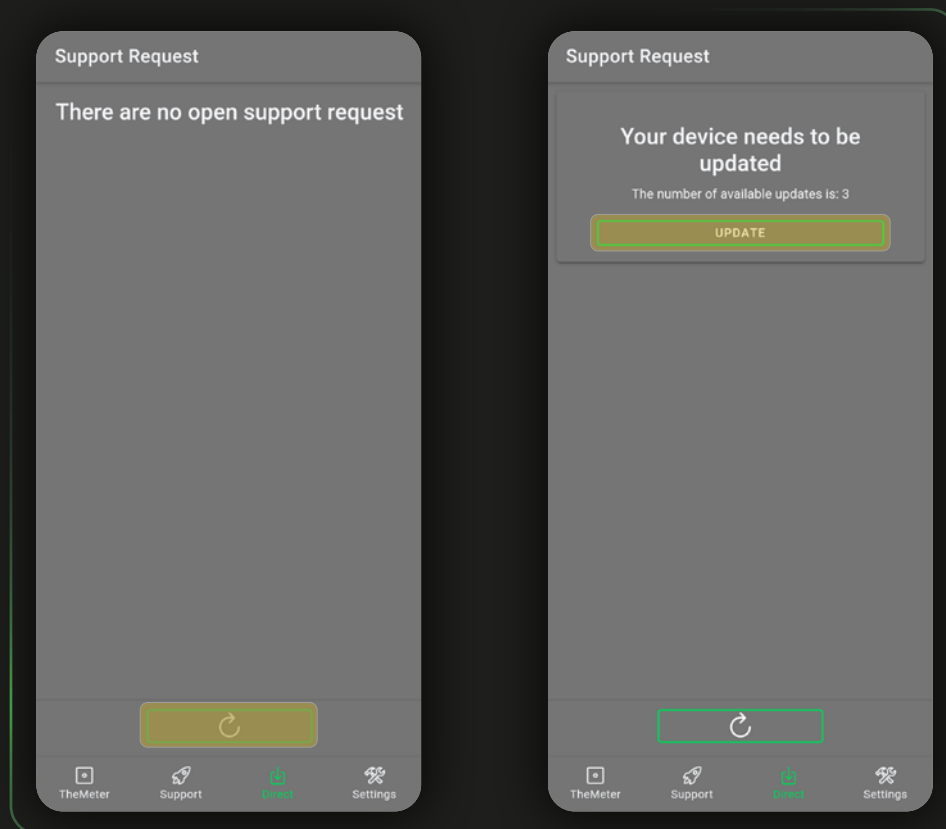
The screenshot shows a mobile app interface for sending an email to support. The title is 'Support'. Below it is a section titled 'Send email to support'. There are three input fields: the first contains 'example@exampleemail.com', the second contains a message 'Hi, I've an example problem with my cubepro, do you know how i could solve it? Thank you, bye.', and the third contains '333 4445566'. A 'SEND EMAIL' button is located below the phone number field. At the bottom of the screen, there is a navigation bar with four icons: 'TheMeter', 'Support', 'Direct', and 'Settings'.



1. Enter your email address

3. Enter your phone number

The response will always be delivered by e-mail directly into your e-mail inbox (may end up in the SPAM folder)

In case of procedures or updates specifically created for solving your support request, they will be sent from THEMETER team in the Direct screen 



To find the special updates you will need to upload the page via  and once they're ready start them by clicking on 

CUBE SERIES DEVICES

Welcome to the guide for your **CUBE**. For its use, it is first necessary to download The Meter app; you can find it at **Google Play** o **Apple Store**, or by scanning the **QR code** below. **CUBE** is THE METER's series of automatic 2D scanner devices designed to eliminate human error. It will enable you to detect spaces with maximum accuracy and export a customizable digital floor plan



Google Play



App Store

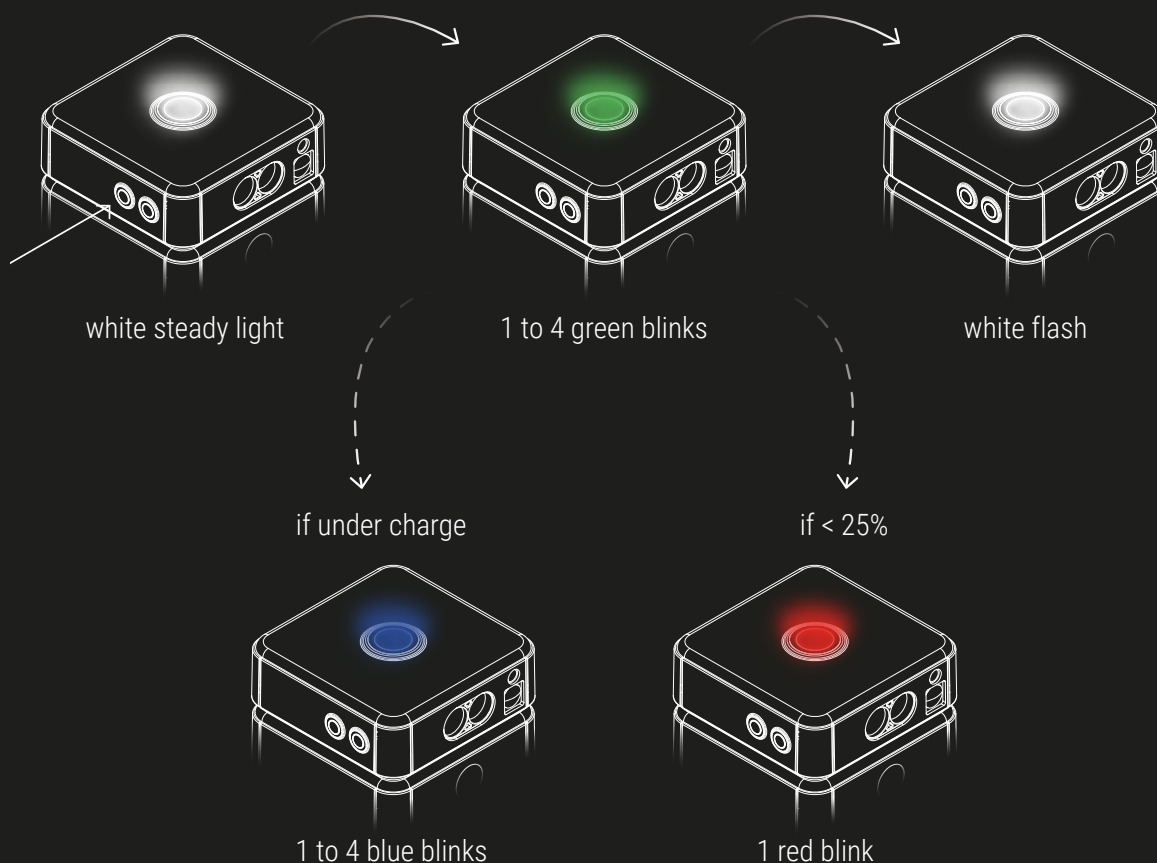


SCAN ME!

CHECK BATTERIA 

By clicking the button A when the device is turned off you can check the charging status of your **CUBE** by green blinking of the upper level:

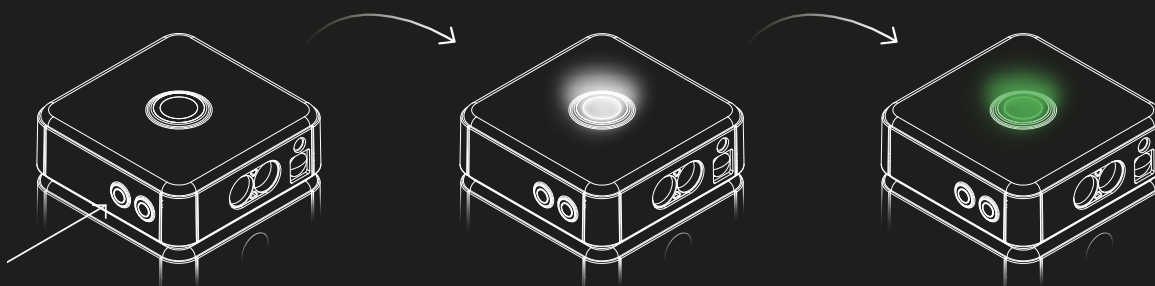
1 blink \geq 25%, 2 blinks \geq 50%, 3 blinks \geq 75%, 4 blinks 100%



When the device is charging, the blinks are blue.
If the battery is less than 25%, the LED blinks red

ACCENSIONE 

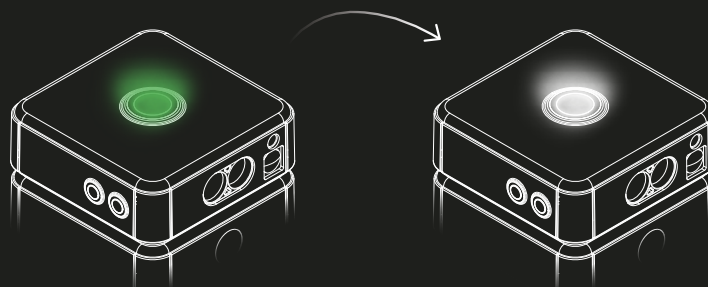
To turn on the device hold down the button A until the led light turns green.
Similarly, for shutdown, hold down button A until the light turns white.



CUBE turned off:
start pressing the button A

Steady white light:
continues to press the button A

Blinking green light:
turn on completed



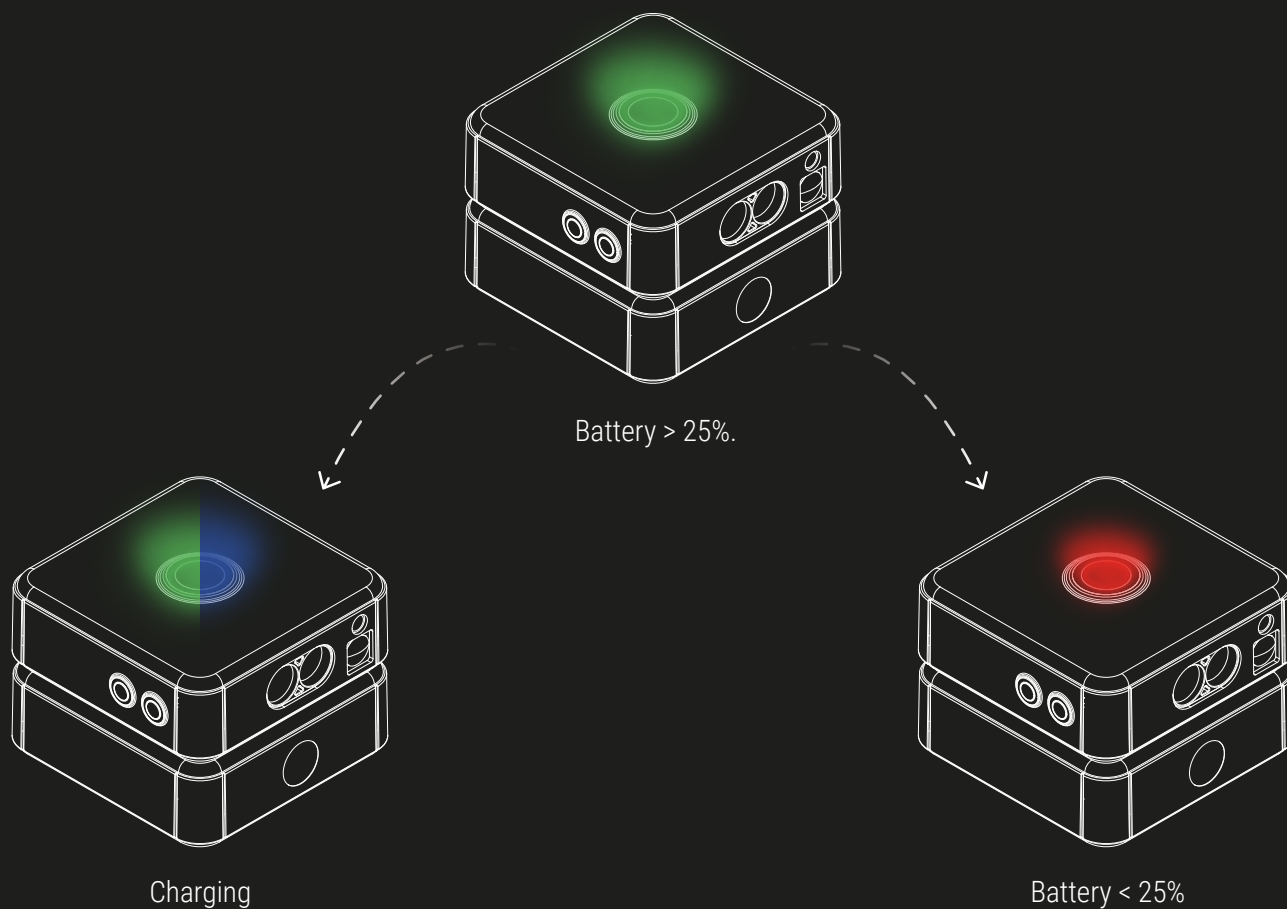
CUBE turned on:
start pressing the button A

Steady white light:
shutdown completed



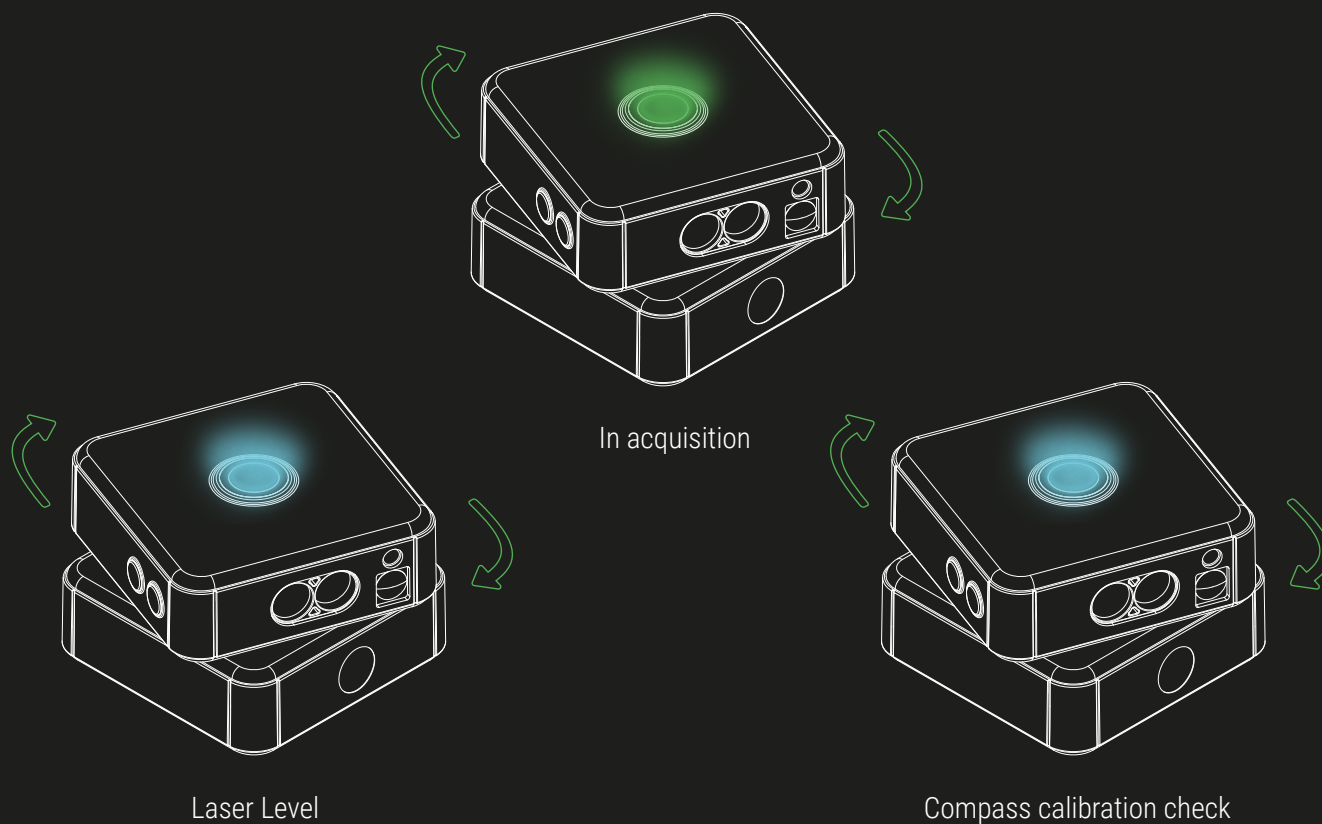
To perform a device reset, hold down both buttons
until the LED remains off for at least 10 seconds



Once the **CUBE** is turned on, the LED blinks green, signaling the wait to connect to a mobile device. Once connected the light turns steady green






If the **CUBE** is charging, the LED alternates blue blinks to green ones;
if the battery is less than 25% the LED signals are colored red

During acquisition operations, the LED has a steady green light



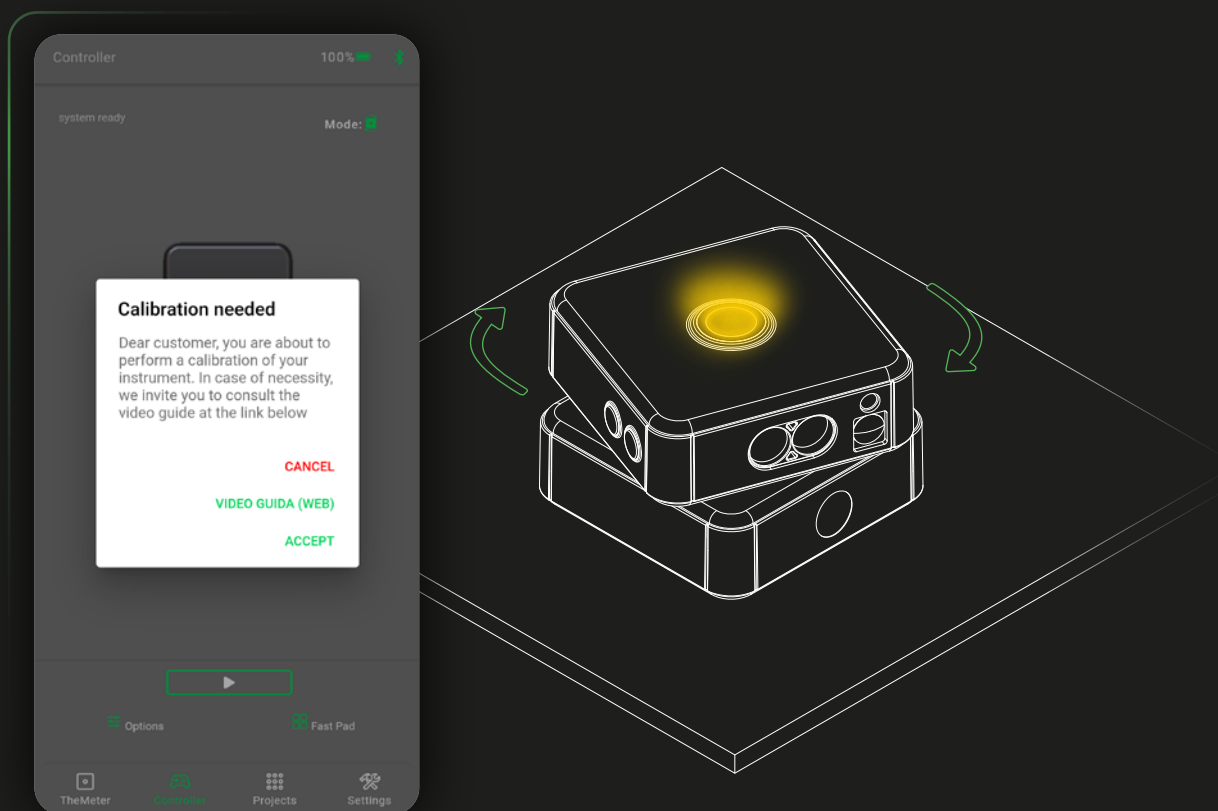
In control operations, the led has steady blue light during execution of the laser level , while it has blue flashing light during the compass calibration test 

To perform compass calibration, place the **CUBE** on a horizontal flat surface;
now you can start the Calibration  function from the Fast Pad 
menu of the Automatic  mode in The Meter App



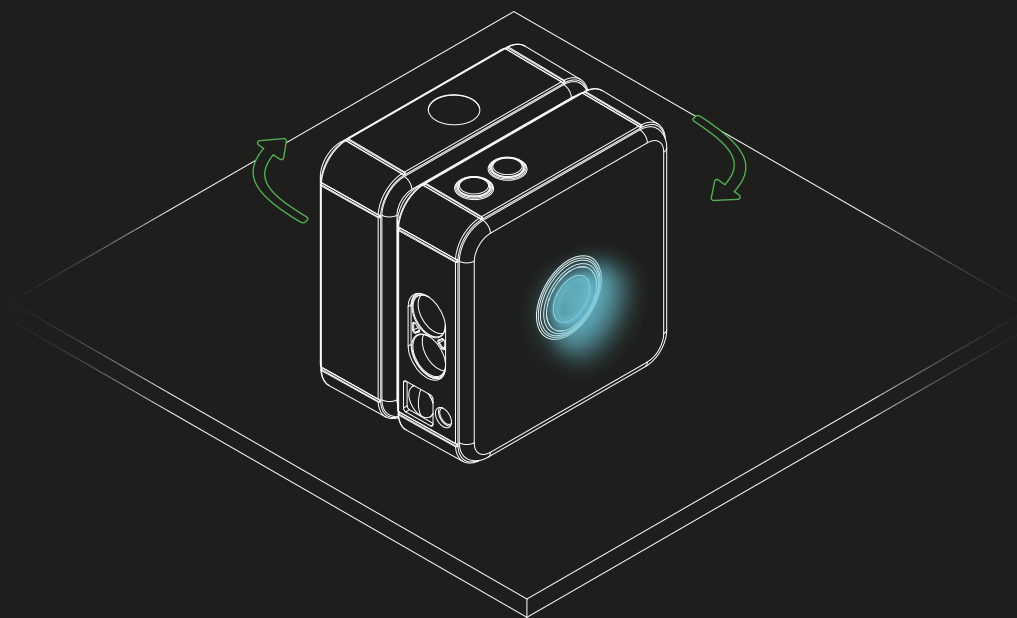
The device will start a test to check the current calibration of the compass by turning the head 360° in 4 steps; During the procedure the led signal is light blue, steady in motion and flashing between steps

Once the test is completed, if it's needed, you can continue with the calibration of the device compass; alternatively, you can decide to click **CANCEL** and continue working with your **CUBE**, but having the North indication in the results incorrectly



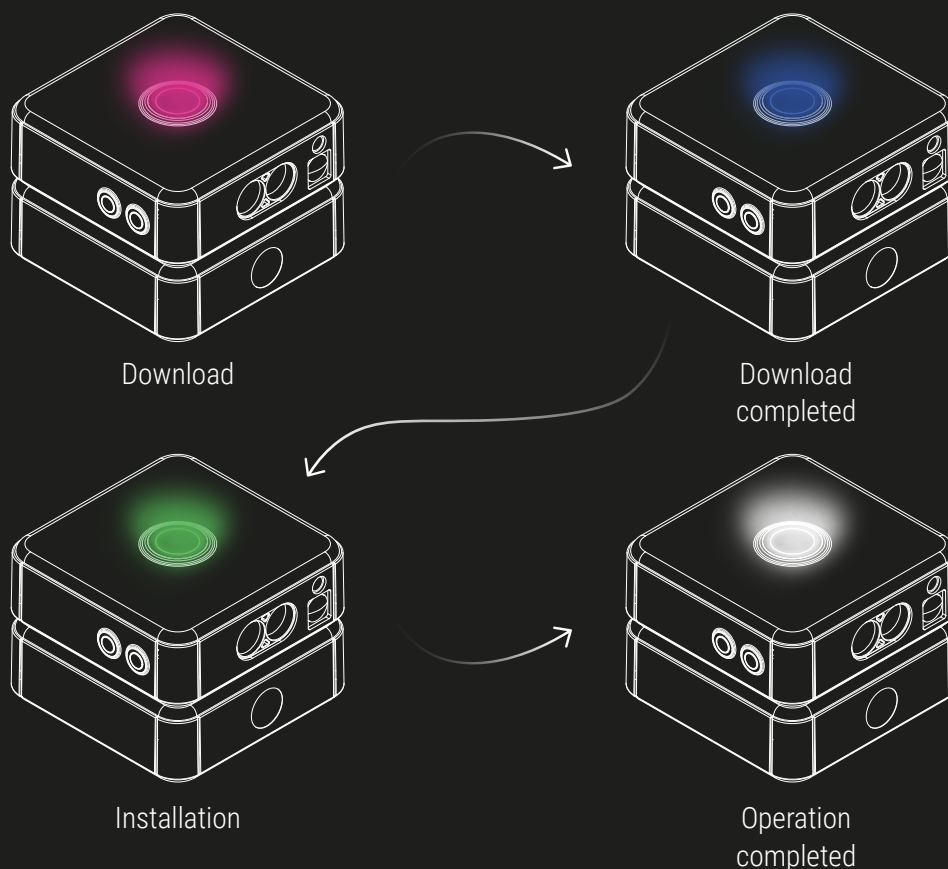
Clicking **ACCEPT** a calibration session starts: when the upper level starts flashing yellow, rotate the head of **CUBE** on itself until the light turns flashing light blue.

Turn now the **CUBE** on its side, with side level and buttons upwards; rotate the device on itself until the light turns green



To optimize the calibration of your **CUBE** perform the rotations at a rhythm of one every 7 to 8 seconds circa without ever stopping the movement

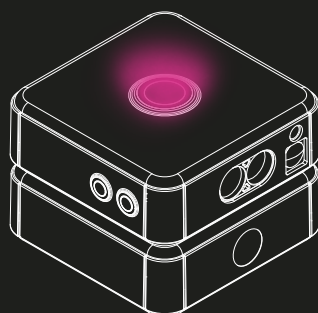
During the Firmware update, to be executed only through the TheMeter Doctor app, the led performs a sequence of light signals to inform us at what stage of the process we are: initially, in the download phase, it has steady purple light



When the download is finished, the LED is blue, and changes to green when the installing process begins; the end of the process is notified by the LED changing to white and the automatic disconnection of **CUBE** from the device

AVVISI DI ERRORE ⚠

If during the firmware update the led signal remains steady purple for more than 2 minutes, it means that an error has occurred within the update process; To fix it make sure the device is connected to The Meter Doctor app and restart the procedure; if the problem persists contact THEMETER support.

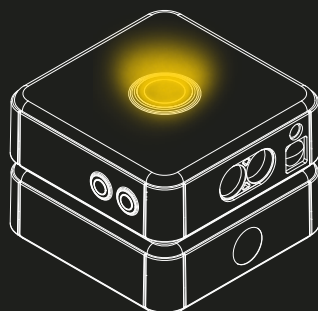


Initialization error
Firmware



Upgrade via
The Meter Doctor app

Contact THEMETER support



Initialization error
hardware component


Button A
Power On/Off

Button A + Button B
Reset

Contact THEMETER support

If during the turn on of your **CUBE** the LED returns steady yellow light, it means that an initialization error occurred in one of the internal peripherals; As a solution try to turn the device off and on again, and if the signal does not change perform a reset; if the problem persists, contact THEMETER support.

AUTOMATIC MODE

Welcome to the **Automatic Mode** guide, we will explain all the functionalities; With this mode, your **CUBE** performs surveys and sections of your spaces autonomously by rotating 360°, returning a planimetric point cloud. Through the app you will have a preview in points, to which you can add markers and comments; The DXF file will also contain several simplifications of the survey via polyline. To start, turn on your **CUBE**, holding the button A until the LED turns green, then click  on the App




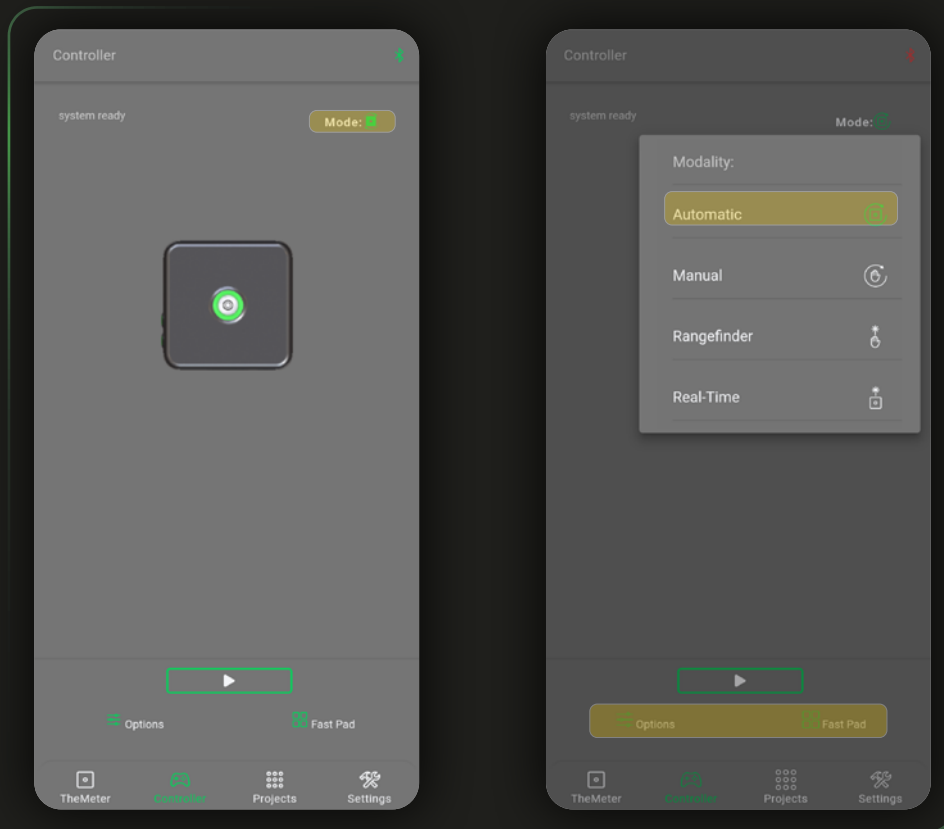
YouTube






SCAN ME!

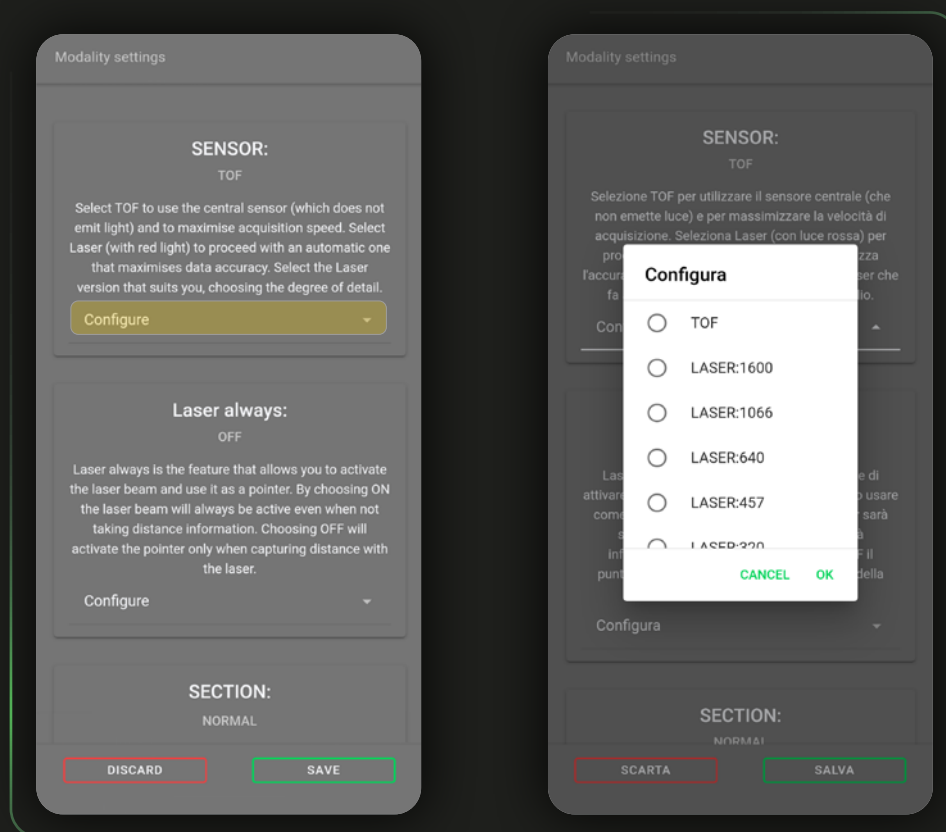
alternatively you can also watch our video tutorials of the modes, you can find them on our youtube channel or by scanning the QR code above!

Switch to Controller  screen and select the automatic mode by clicking on **Mode:**



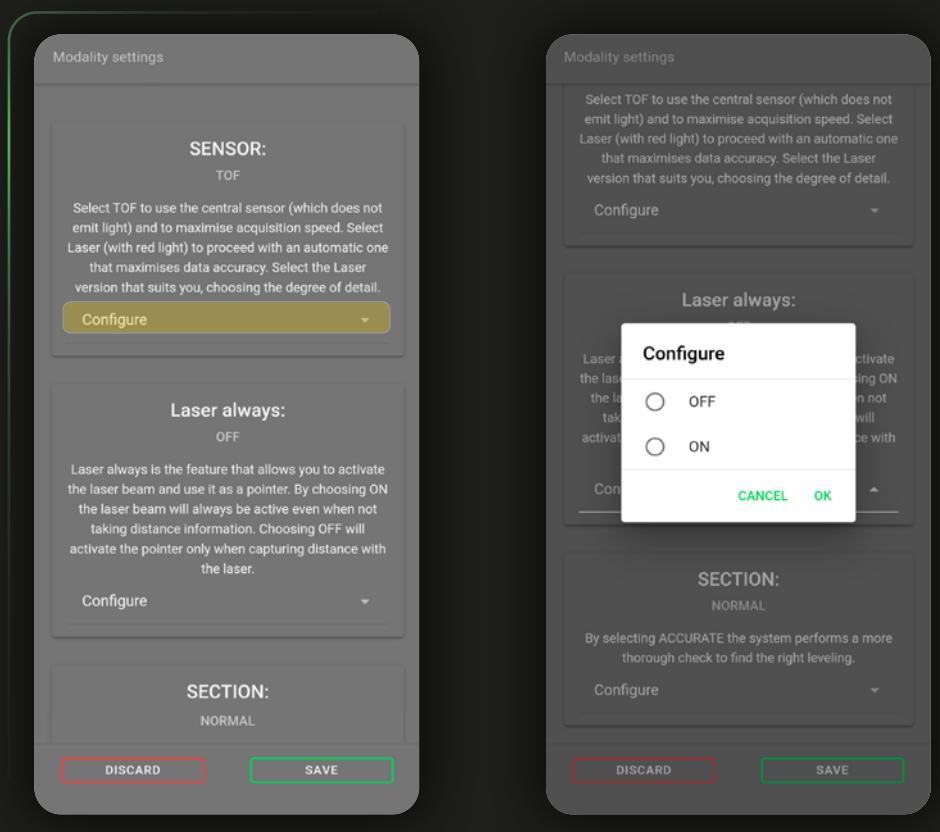
From this screen you can take your measurements and manage settings and mode functionalities via Options  and Fast Pad 

In Options  you can set which type of sensor to use for automatic scanning, choosing between TOF or LASER at various scan densities



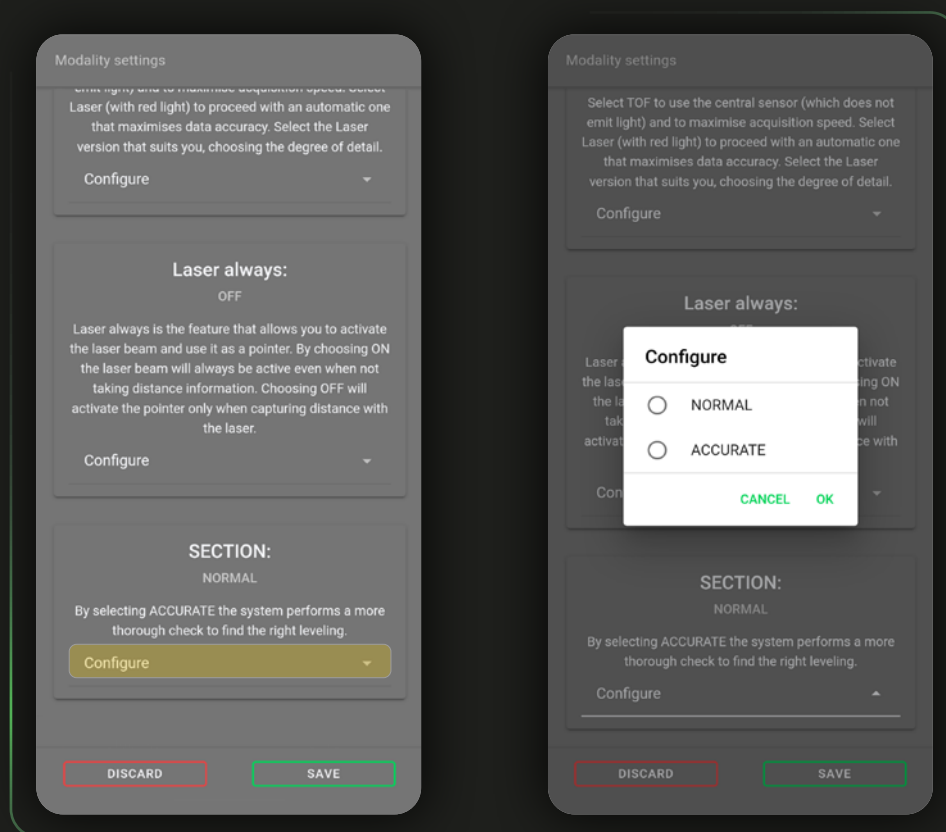
LASER mode allows much more precise scanning, but the capture of each point is slower, so depending on the density chosen, scanning times are longer than with TOF

Also you can set the laser pointer to be switched off or on (Laser always OFF / ON) during the automatic SCAN






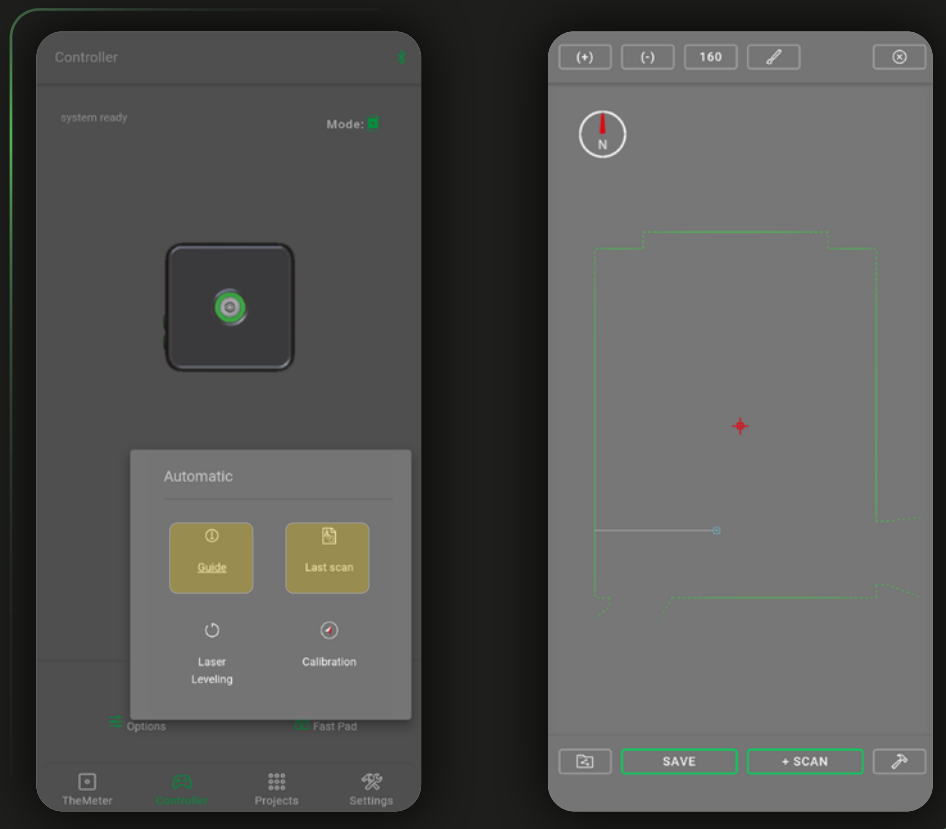
The TOF is not visible to the human eye, it may be useful to also activate the LASER sensor in order to check better the path of point acquisition

Through calibration in section you can set the method by which **CUBE** will identify the ground line in sectional surveys; in Normal mode the calibration is carried out through a faster rotation




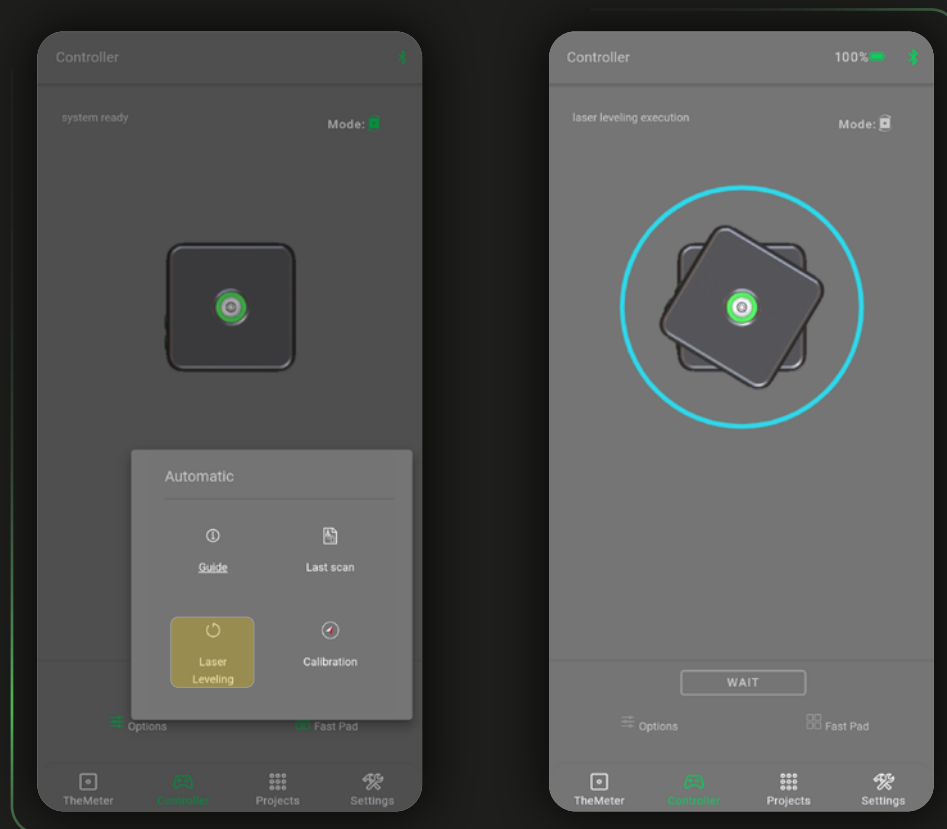
In Accurate mode it performs a full calibration by performing a rotation of 360°, positioning the ground line as accurately as possible in the scan

In Fast Pad  you can find four available buttons: Guide  refers to the online guide of currently active mode, Last scan  allows you to open the last scan performed



You can review it, save it, or expand it by multiple SCAN, and interact with it by using all the features available in the app, which we will explain in detail later in the guide


Activating the Laser Level  will make the head of the **CUBE** perform a 360° rotation with the laser on, so that you can check at what height the device will perform the survey and evaluate the scan path before launching a survey

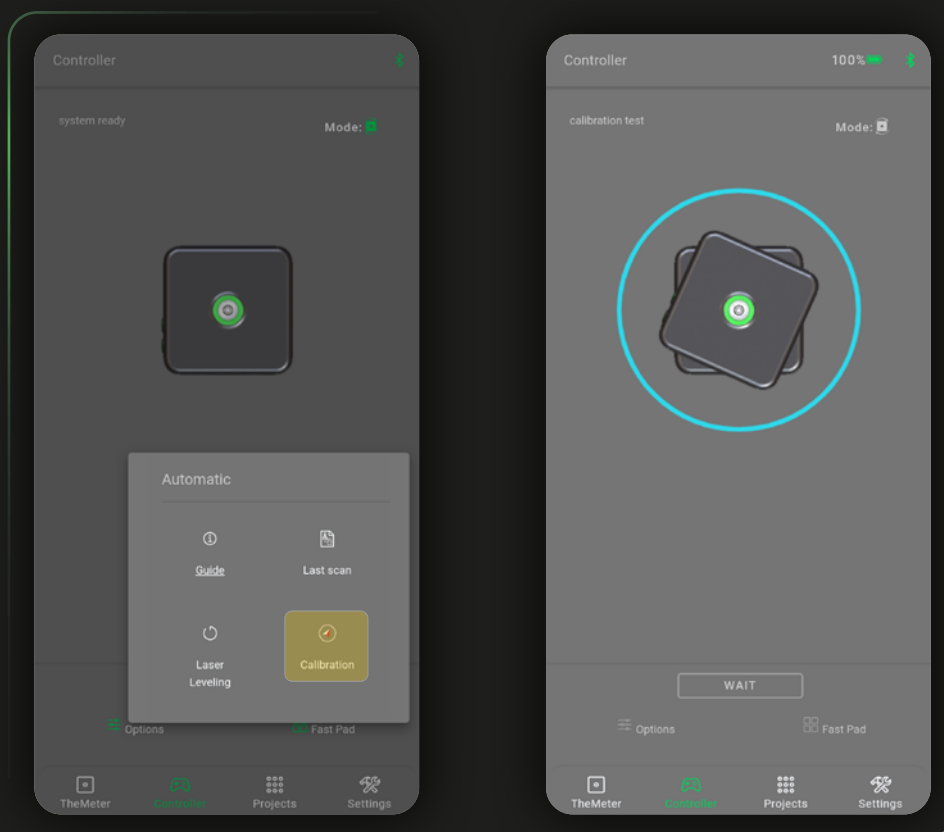


Consider for evaluation a deviation of
+/- 10 cm from the visible laser pointer


10cm

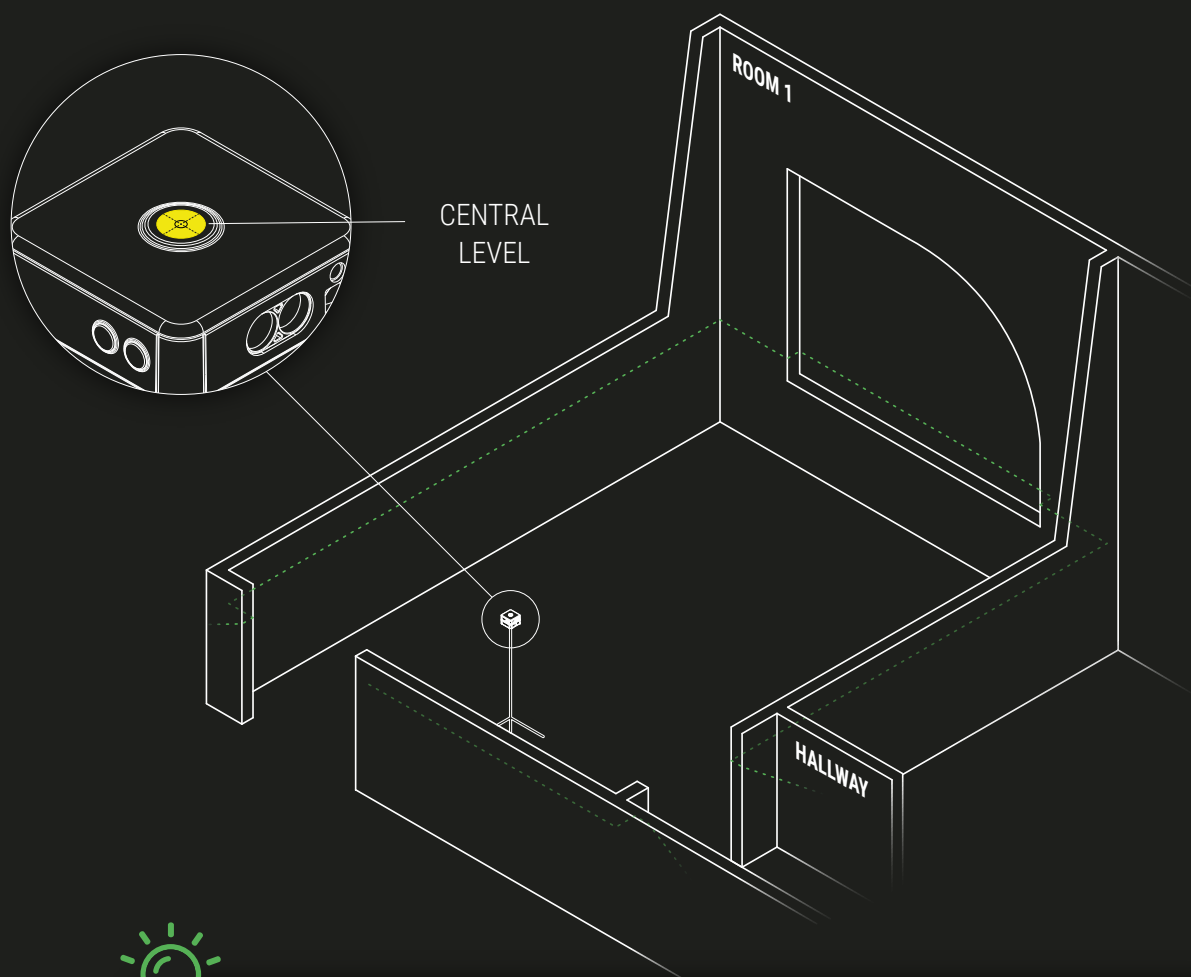
10cm

With the last button  you will start the calibration test of the compass; if it is successful you will be able to continue with your scans without any problems, otherwise the app will alert you if the **CUBE** orientation is not correct.



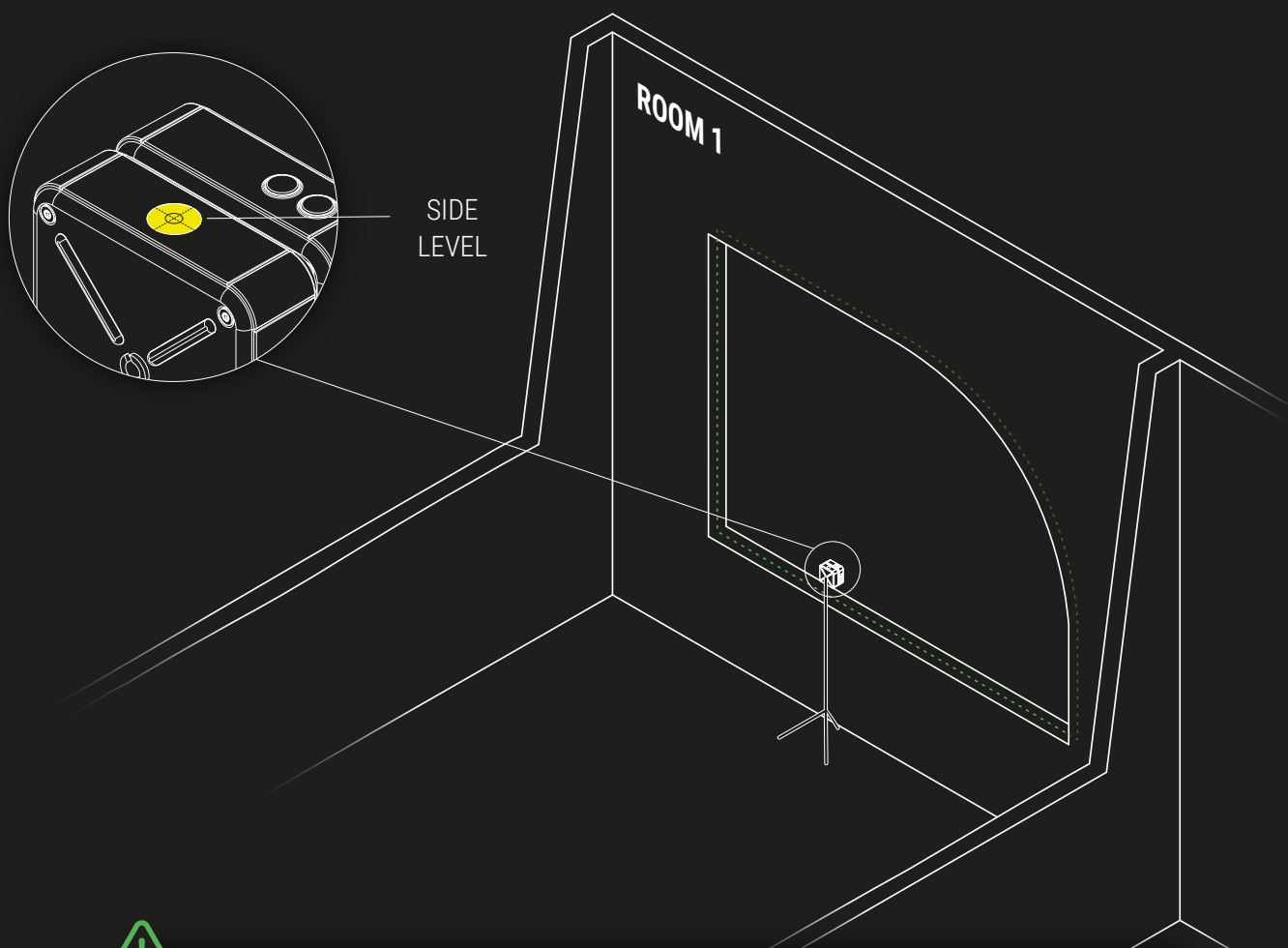
At this point you can choose to perform a manual calibration of the device (see device guide), or to continue with your surveys but having the wrong North indication within the surveys

Once you have chosen your settings and made the necessary checks, click  to start automatic SCAN



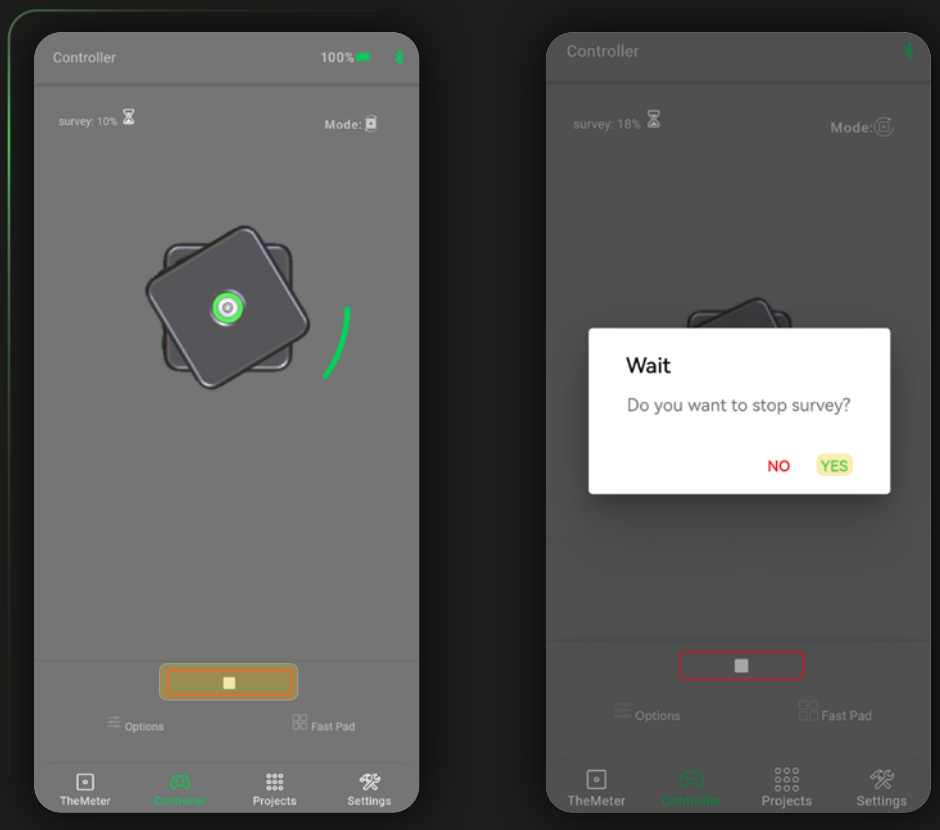
Place your **CUBE** ensuring correct levelling of the device, at the most useful point to take all the details of your scan.


With the same mode you can also perform sectional surveys, it will be necessary to rotate the orientation of your **CUBE**, placing it with the side level upward



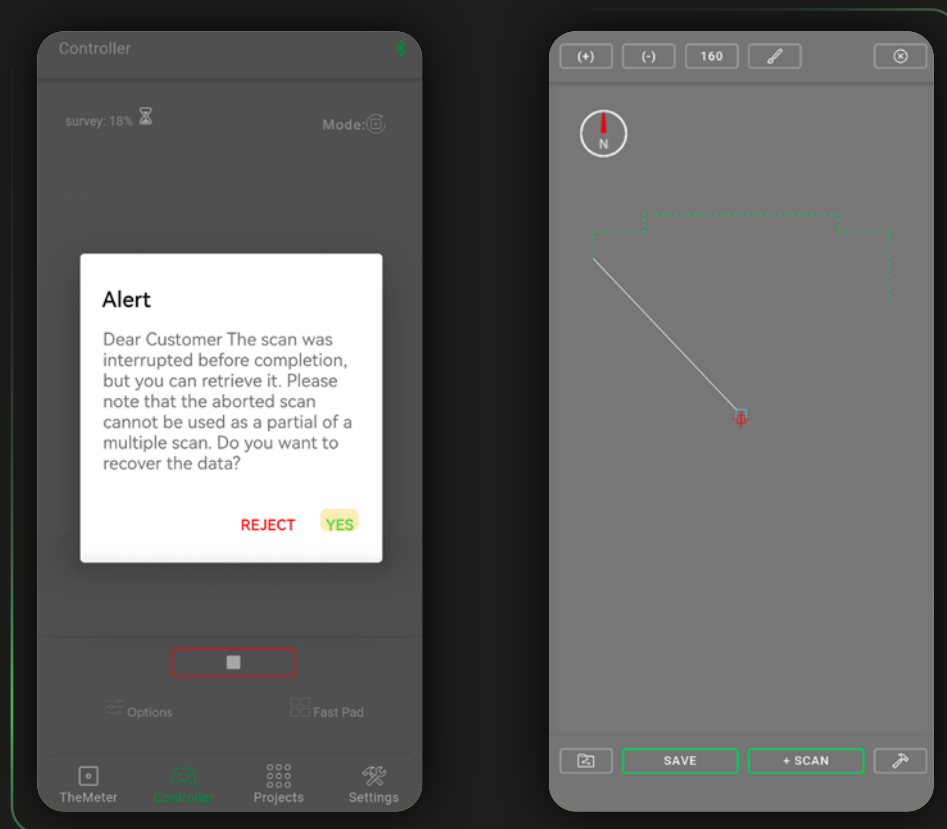
Scans are always returned in front view to the central level; In this case the section will turn out to be reversed (see p.50)

The survey is performed at 360 degrees and captures a detailed preview which, once the Scan is finished, will be downloaded from the **CUBE** for viewing



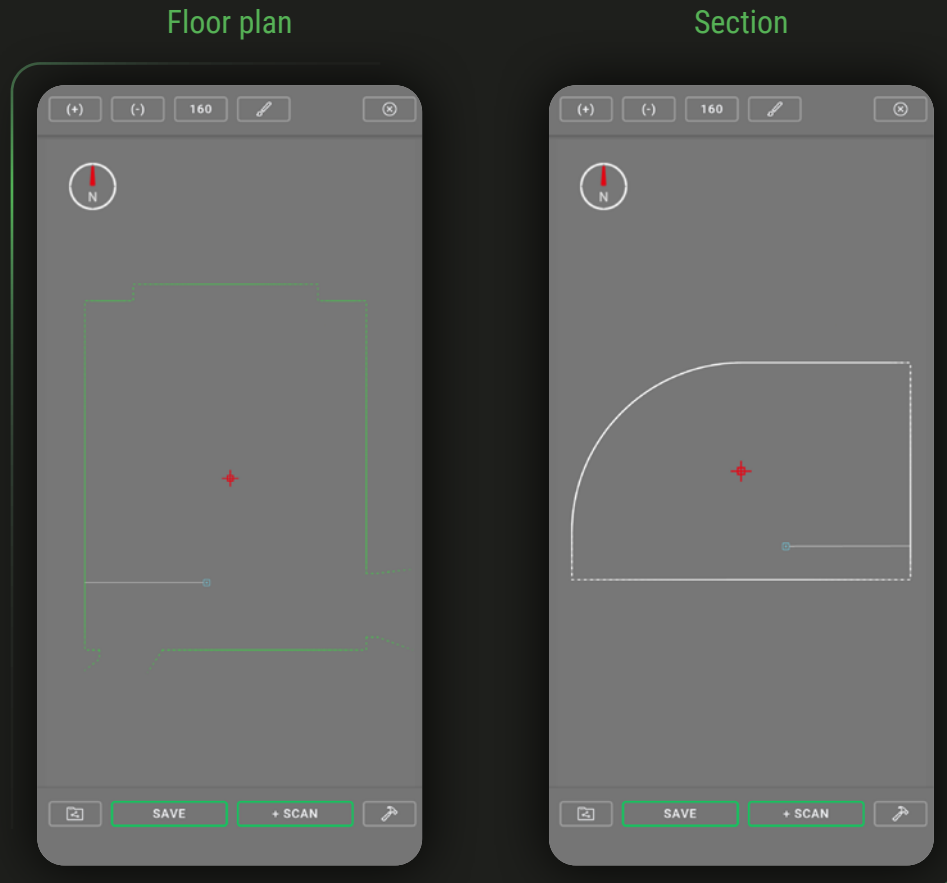
Until the process is complete you can stop the scan at any time by clicking on  and then on **YES**

Then will appear a pop-up that will allow us to retrieve the data collected from the scan, which is useful during surveys in which we need to survey only a partial architectural and not the entire environment



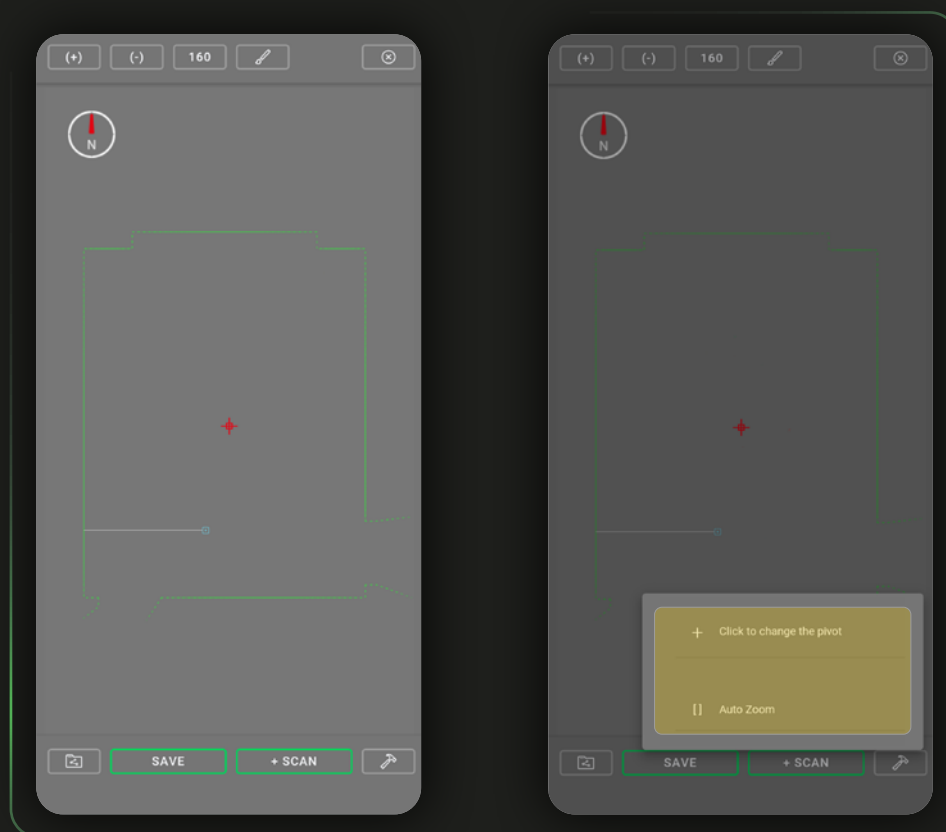
Click **YES** to view the result of the partial scan






Instead, once the scan is finished a preview of the result will be displayed and you can interact with it. It's oriented with North upward and it's green in case of the floor plan. It's with the floor downward and white in case of section






An estimate of point reliability is returned in the preview through a color scale from Green/White (reliable) to Yellow, Orange and finally Red (less reliable)


Once we have the preview, we can move around in it as if it were a photo, using the touchscreen to move and zoom in




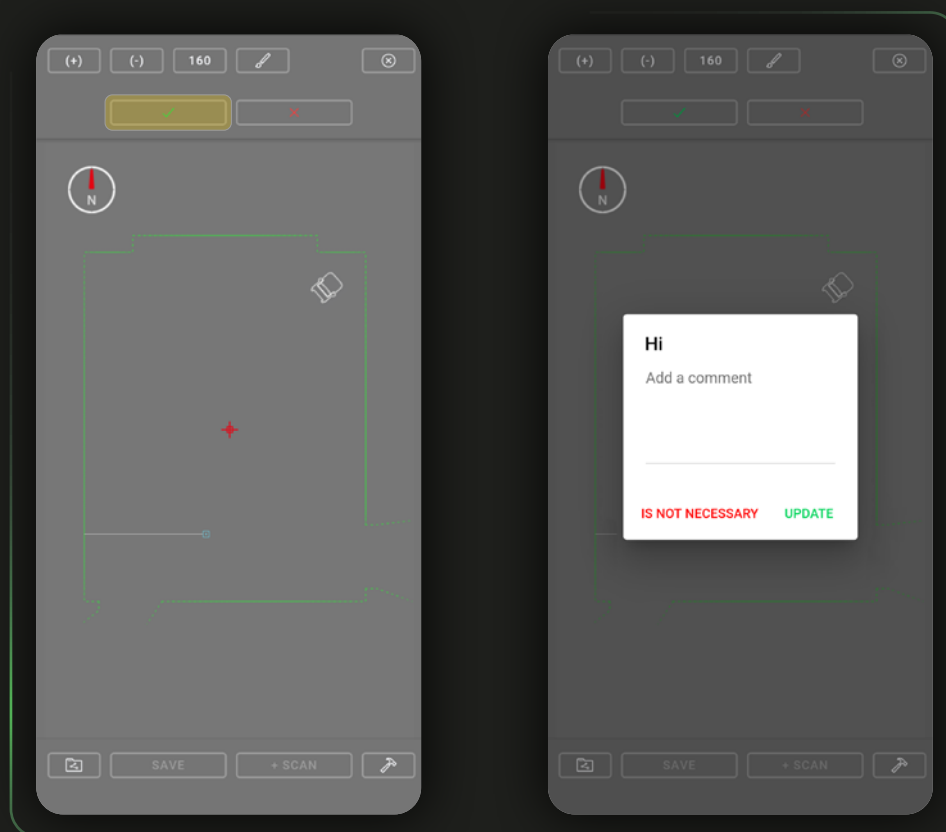
The  button gives you the option to change the pivot  (anchor point to zoom and rotate the floor plan) from the cursor  to the point central of **CUBE** . With automatic zoom  It's possible to fit the width of the survey to that of the screen

With the app's interactive tools, you can also interact with the survey: With  and  You change the zoom, with  you can increase or decrease the number of points displayed






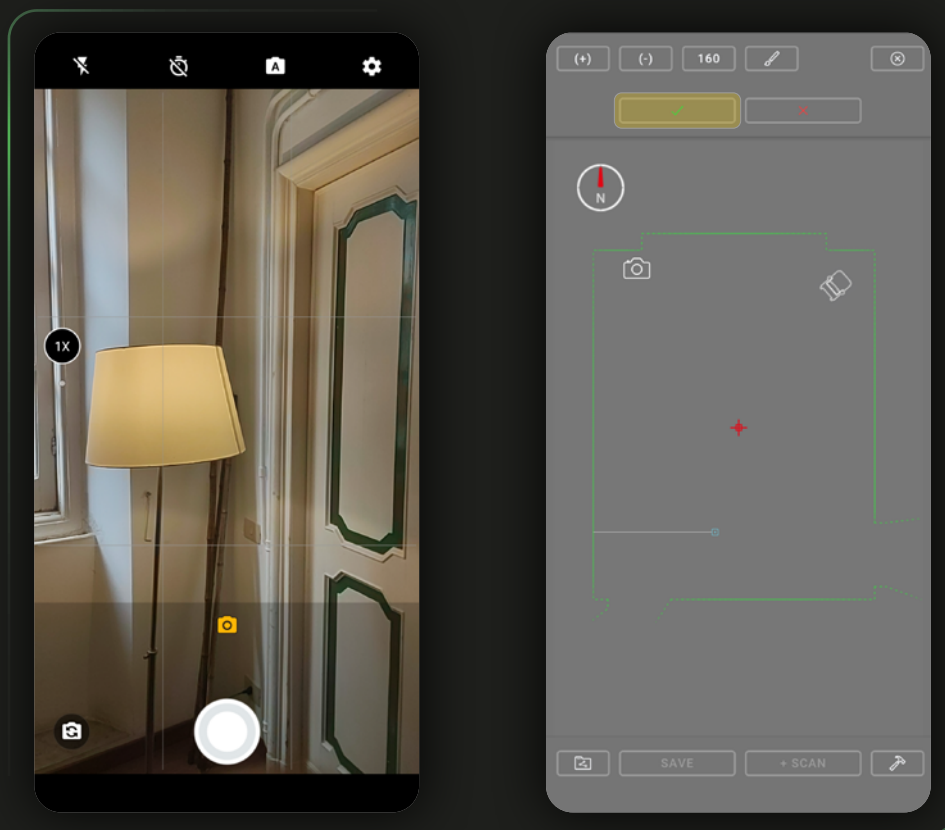
The  button allows markers and photographic documentation to be added to the floor plan, to report the presence of items such as radiators, furniture, electric sockets etc. Choose the one that best meets your needs!

Adding markers is very simple: by clicking on the chosen icon it will be displayed in the center of the screen and you can move the floor plan on the background to place it; to finish the placement, once placed, click . If necessary you can add a comment associated with that marker




Markers and related comments will be included in the DXF in a dedicated layer called "Marker"

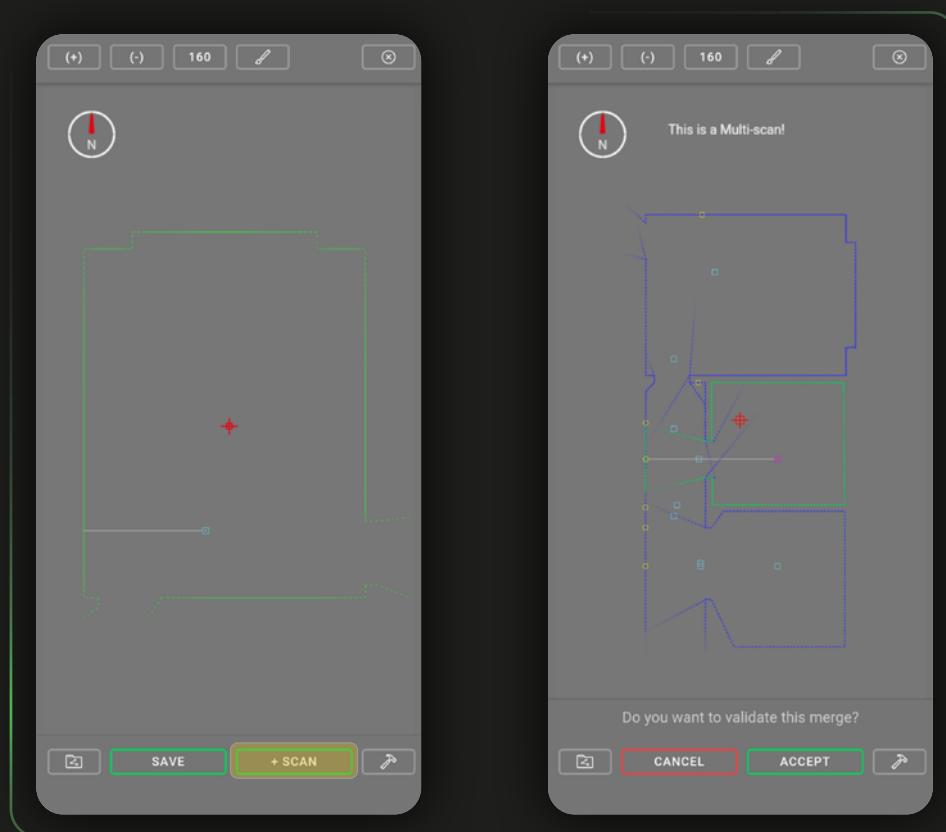
To add photos click on the icon : the camera of the phone or tablet with which to capture the point of interest will be opened. Once the capture is confirmed, to finish the insertion you will have to place the icon  like any marker and then click on . The marker will have the name of the photo, if necessary you can add a comment



The presence in the DXF file of the photographic documentation will depend on the export settings, more details and information in the App guide

Still from the preview of a scan, with the  button you can start a multiscan, the function that allows you to merge multiple surveys into a single .DXF file

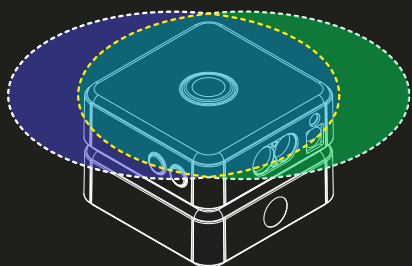
Multiscan example



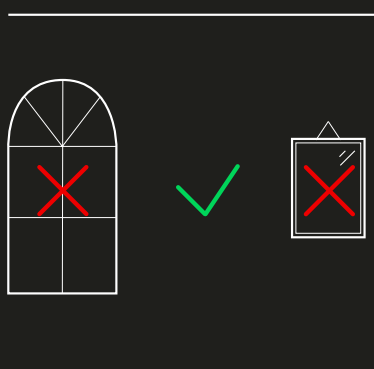
The function works on overlapping the common points between different scans, so in order to obtain a correct result it is necessary to comply with the criteria of positioning, illustrated on the next page

Before starting the surveys, it is essential to carefully examine the overall environment you're going to scan in order to identify the optimal path to follow, considering the following criteria for placing of the device for the various scans:

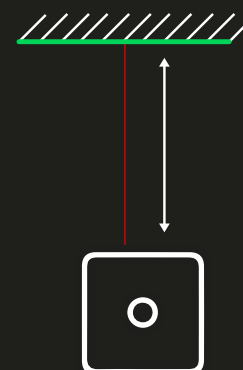
SCANNED POINTS
OVERLAPPING
>60%




ANCHOR POINTS ON
REGULAR, NON-REFLECTIVE OR
TRANSPARENT SURFACES

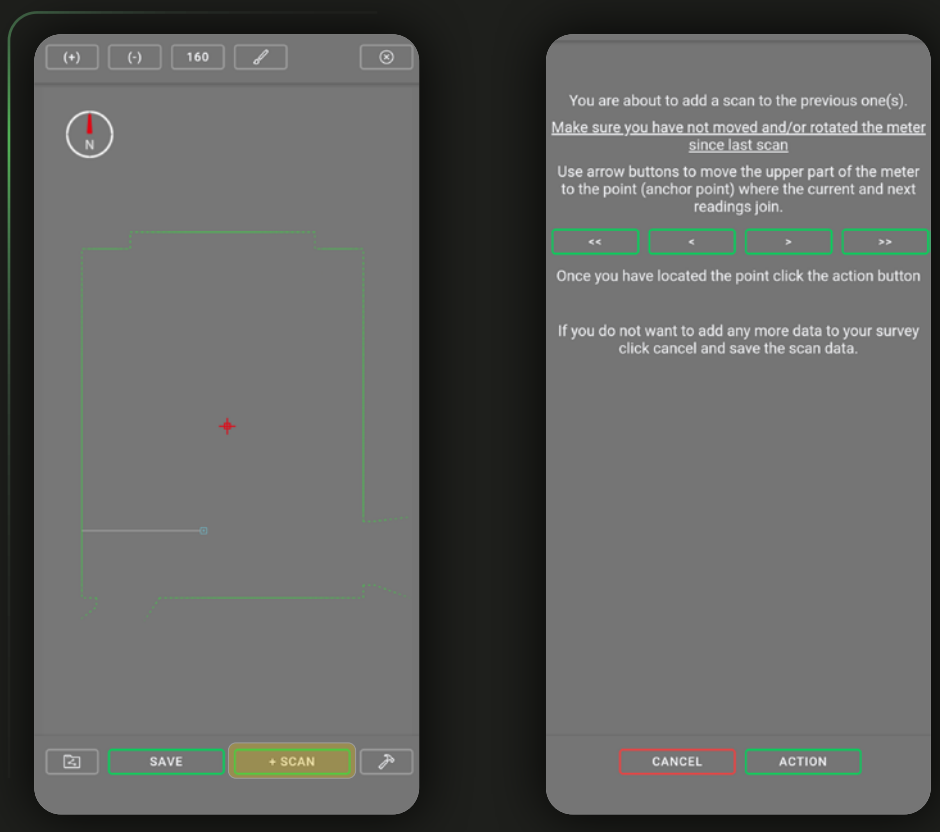


ANCHOR POINT IN
THE MOST RELIABLE
SCANNED PART




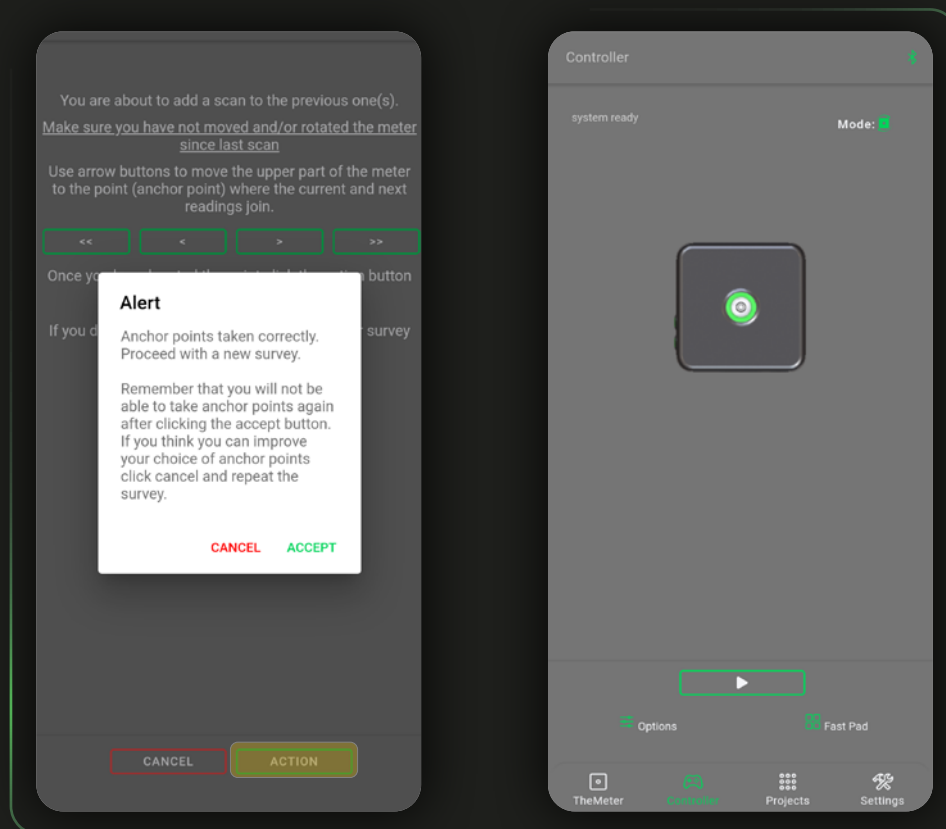
It is necessary to maintain, between the current scan and its previous, at least 60 percent points in common and to place anchor points on regular, non-reflective surfaces or transparent. Also try to maintain good perpendicularity and a small distance range between the instrument and the surface on which you will place the anchor point, this ensures that you put it in the part of the scan that is richest in reliable data

To start a Multiscan click ; the red laser will light up. Making sure not to touch your **CUBE**, use the arrow button in app to rotate the instrument head and choose via the laser where to record the anchor point that will work as a reference for the following scan




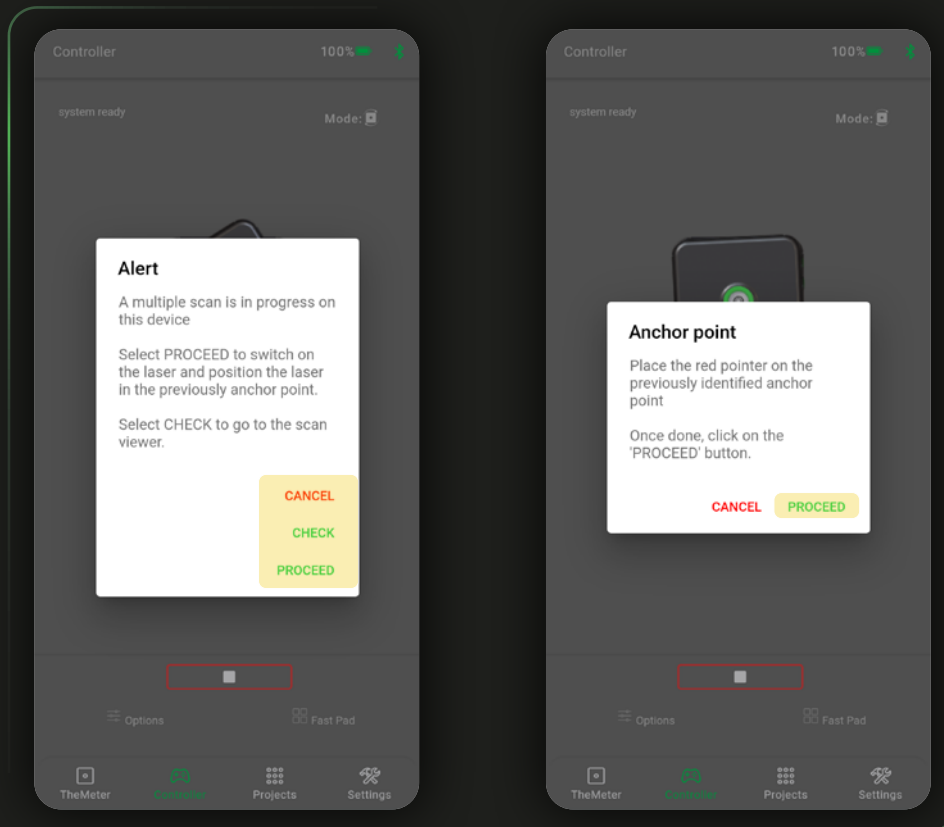
Mark with a target the location of the anchor point on the wall before continuing, it will be essential to reposition the laser in the exact same spot for the next scan

Clicking on **ACTION** the device will record additional reference points. You can accept the points and proceed or cancel them to register them again, after which you will come back to the controller screen  to continue with the new scan



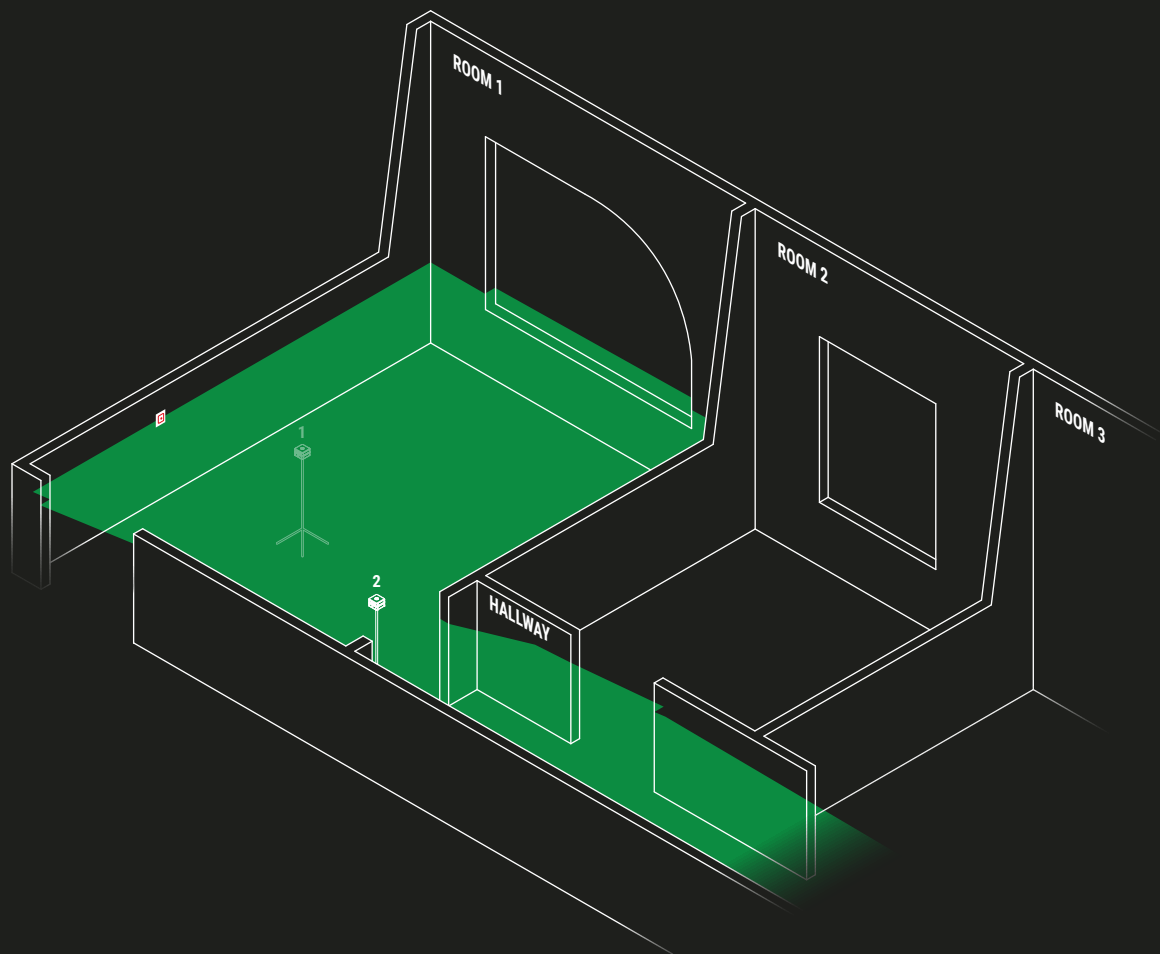
Once you click on **ACCEPT** the anchor point will no longer be editable

To continue click on ; You can view the anchor points in the model by clicking on **CHECK** or move on by clicking on **PROCEED**. You can move the **CUBE** in the new spot, manually realign it to the target with the laser pointer and then click on **PROCEED** to start the new scan



CANCEL closes only popups; to close the current Multiscan save the scan from the screen **CHECK** !

Your **CUBE** will repeat the scan process



As you can see from the example images (p. 26), for the transition from ROOM 1 to HALLWAY the positioning of the second scan (Img. 2) in relation with the first (Img. 1) is designed to maintain an overlap of points greater than 60%, as highlighted in Img. 3

MULTISCAN 

Fig. 1

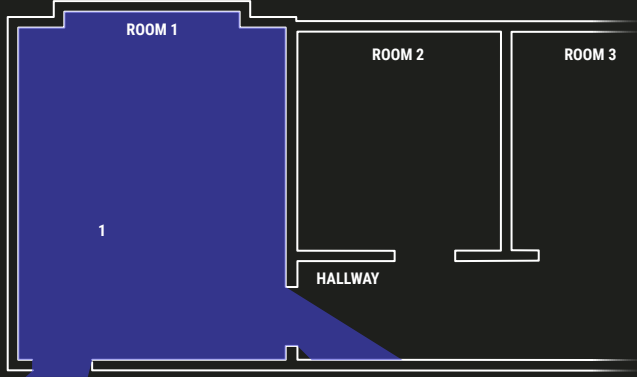
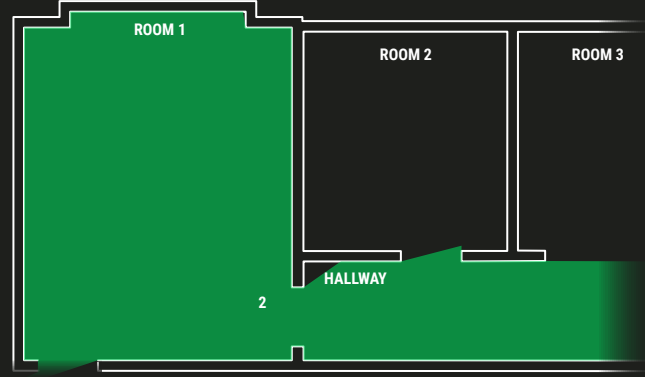


Fig. 2






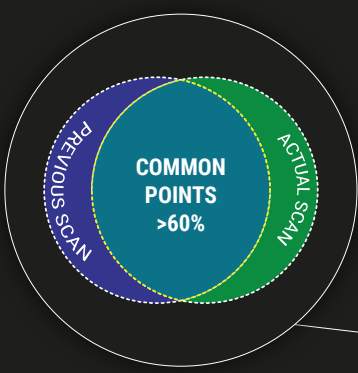
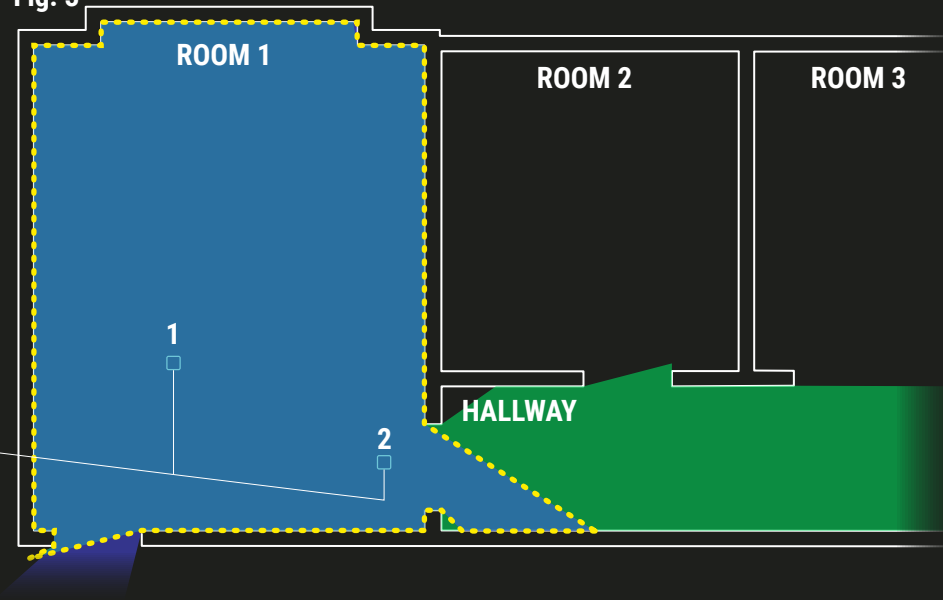
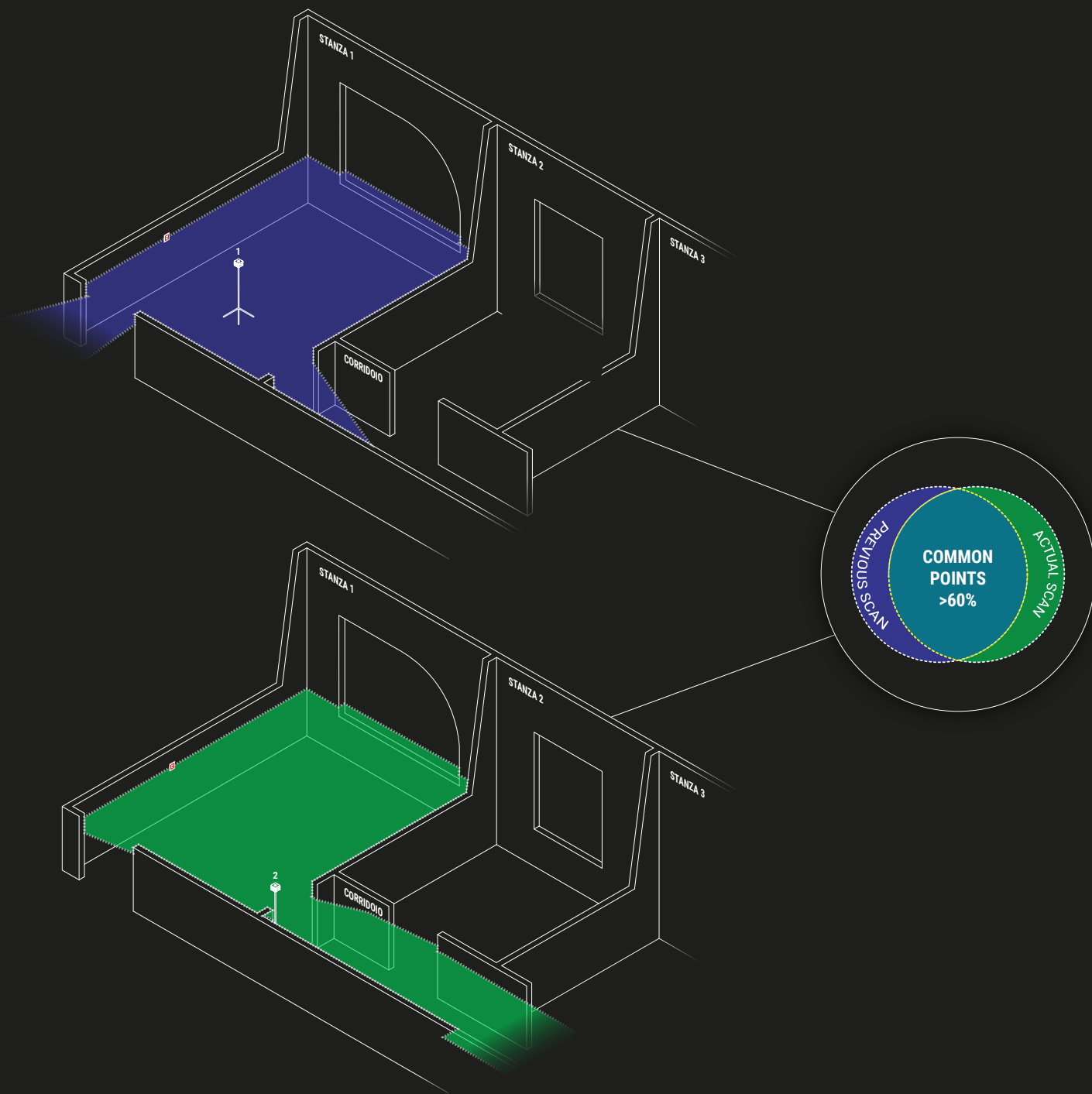
-  PREVIOUS SCAN
-  ACTUAL SCAN
-  COMMON POINTS

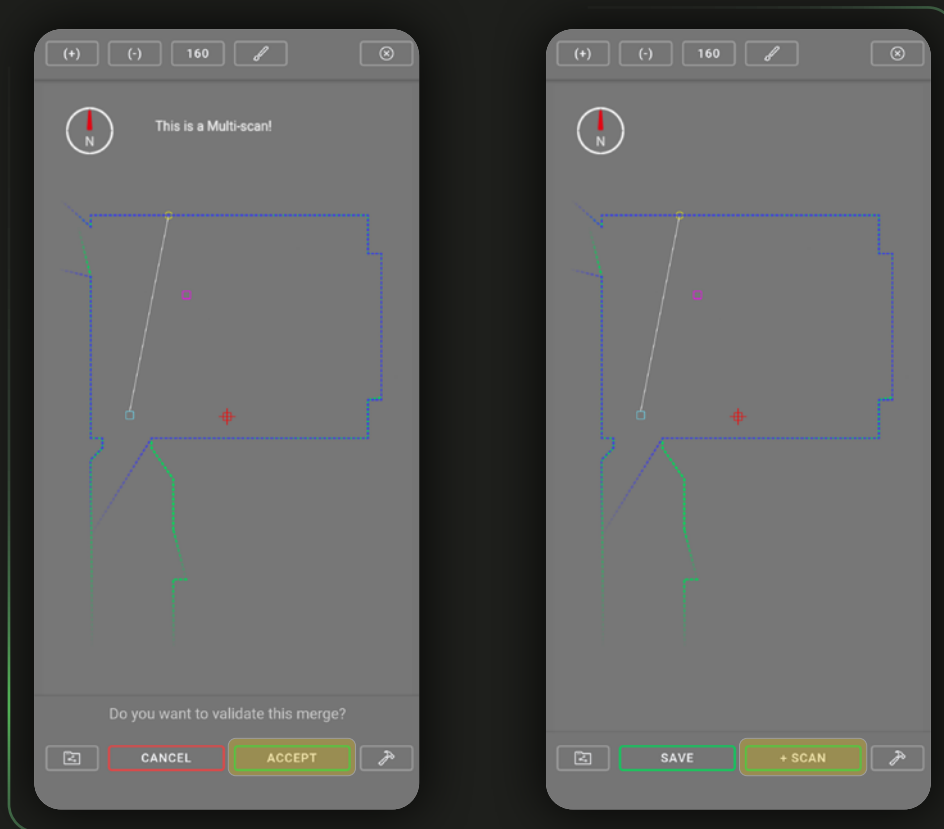
Fig. 3



MULTISCAN 

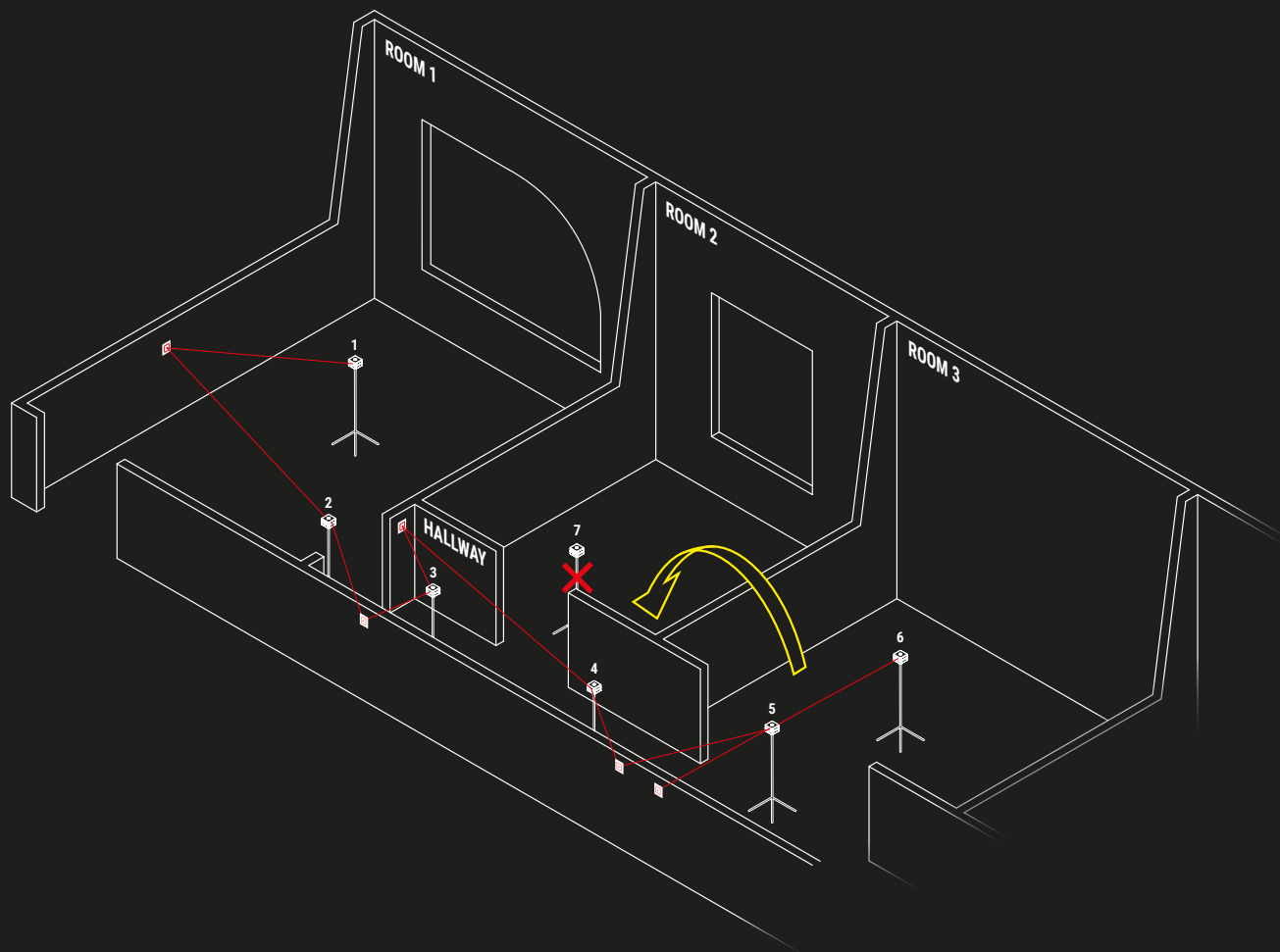


If you are satisfied with the union between the scans result, you can conclude the process by clicking on **ACCEPT** ; At this point you can continue with the next scans by clicking again on **+ SCAN**



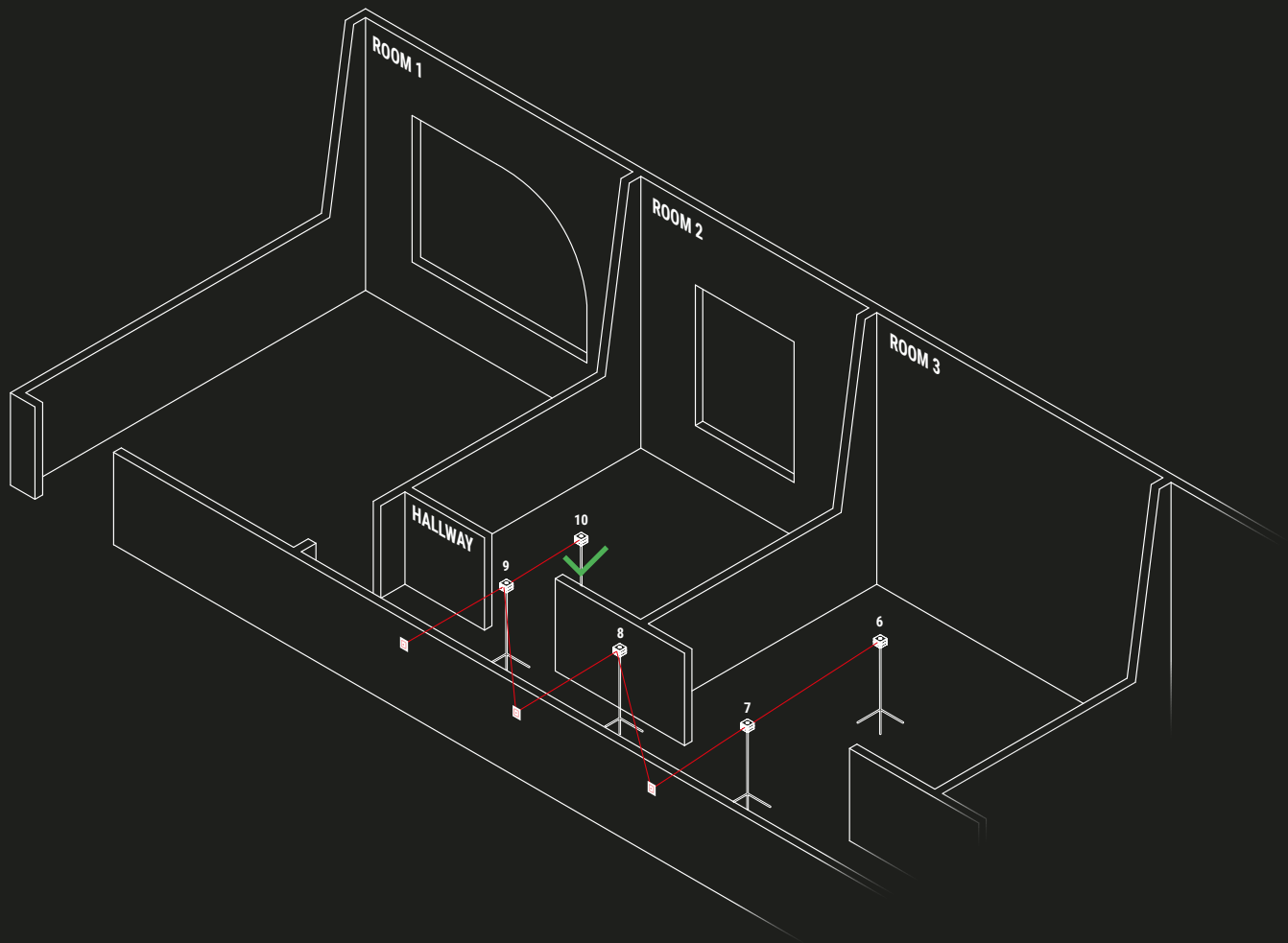
For optimal results, we recommend increasing the number of scans by reducing the distance between them


Remember that you have to apply all the placement criteria for each additional scan you are going to run, since the tool does not consider the entire environment scanned up to that point but only the last scan performed.

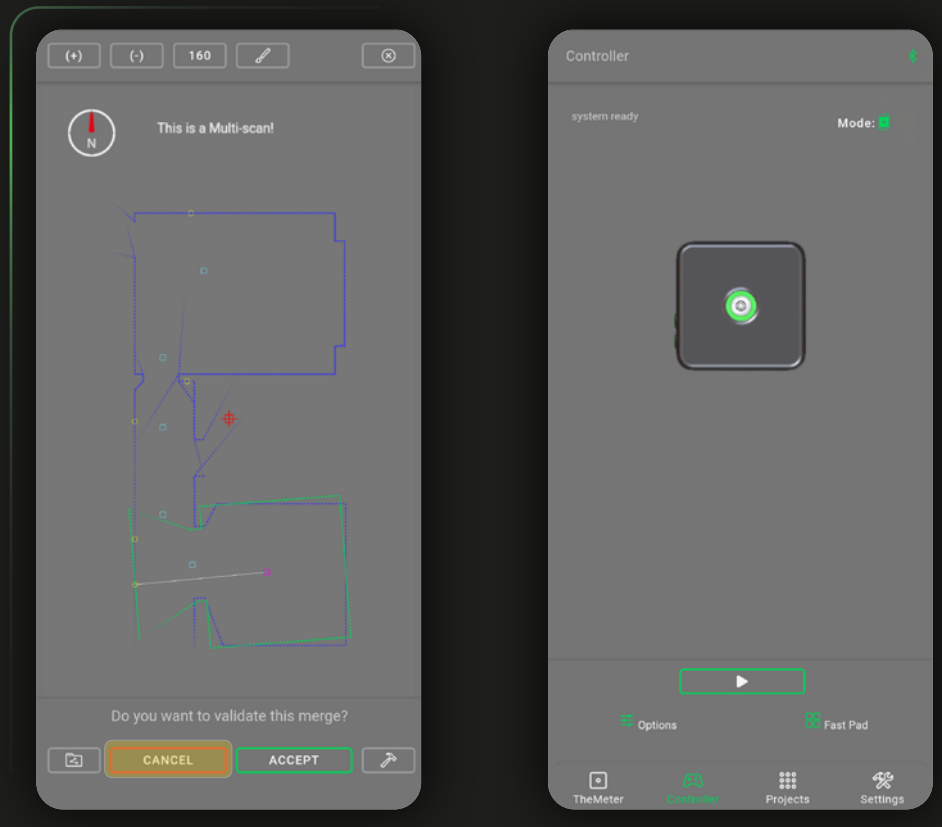


As shown in the image, if you need to move from ROOM 3 to ROOM 2 you will not be able to do so in one step

So it will be necessary to recreate a path of scans as shown in image

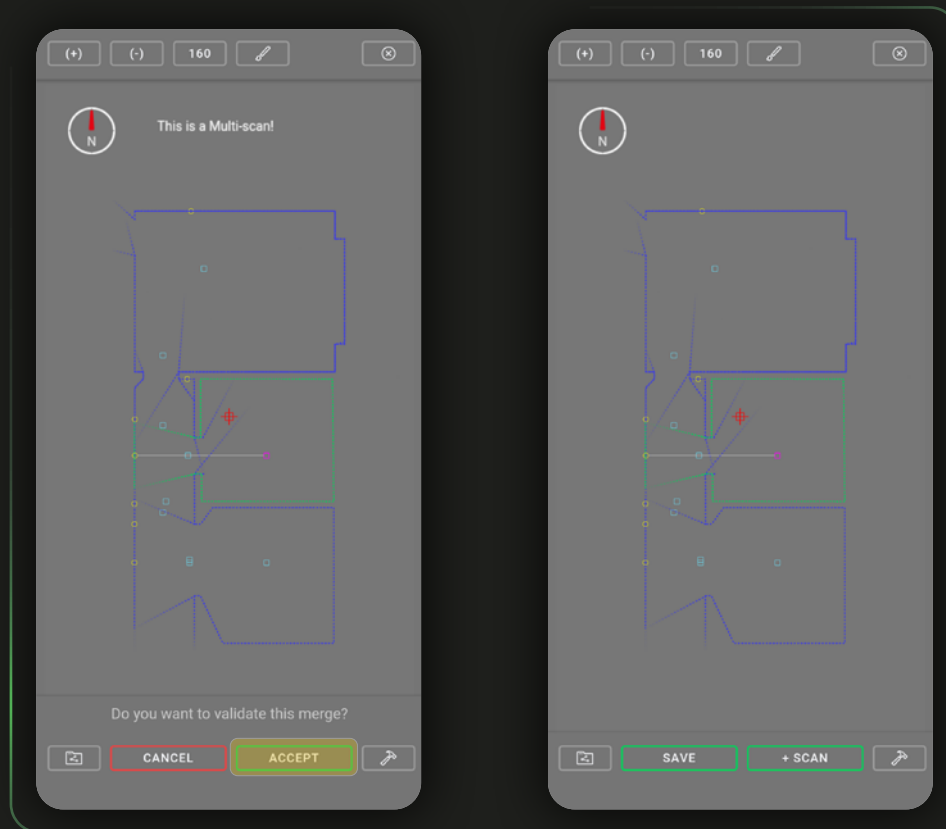



If your scan is incorrectly, you can repeat the process by clicking **CANCEL**, starting again from Controller  and following the same steps described in the previous pages

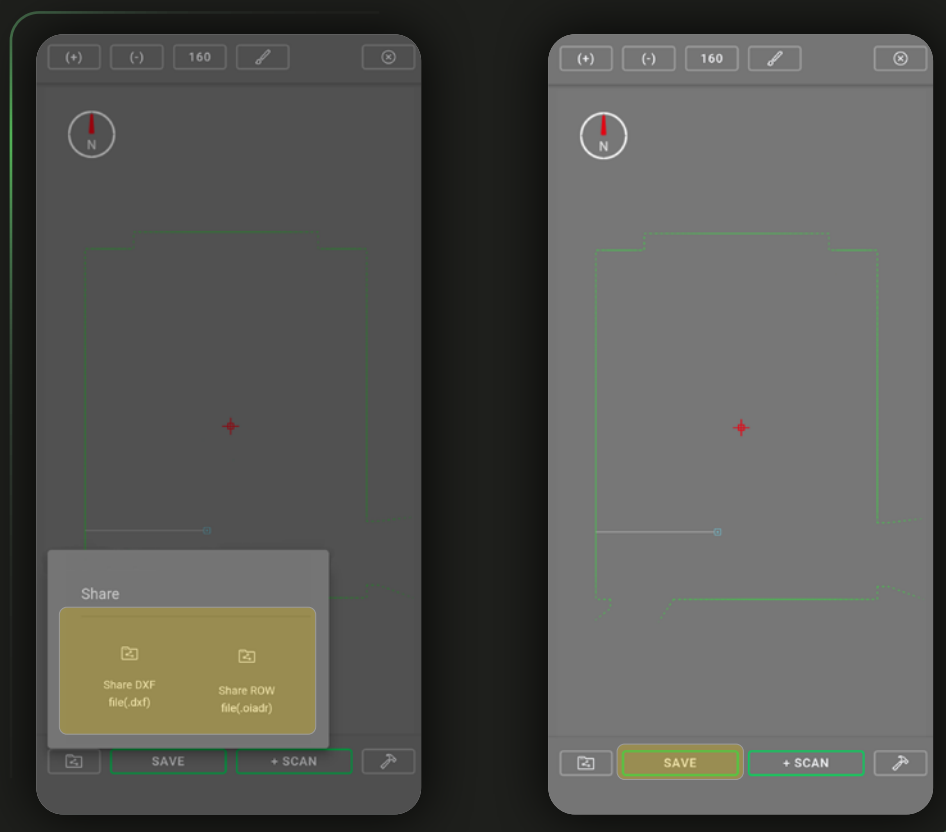



The anchor point will be the same previously set

Once you have completed merging all the scans you have made, you can interact with the model through the same tools already explained for individual ones and then save or share your .DXF files

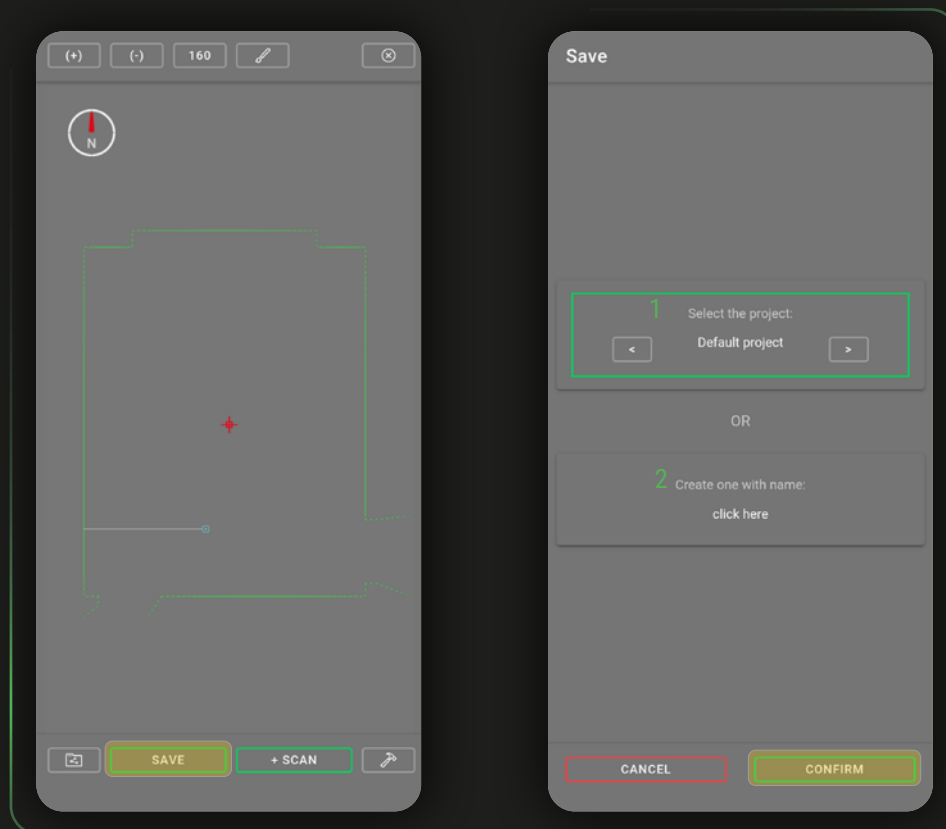



With  you can send or share the scan (DXF file) via email, via messaging and social networking; the .oiadr file is a RAW file useful for diagnosis for THEMETER Support Team in particular cases of product support.





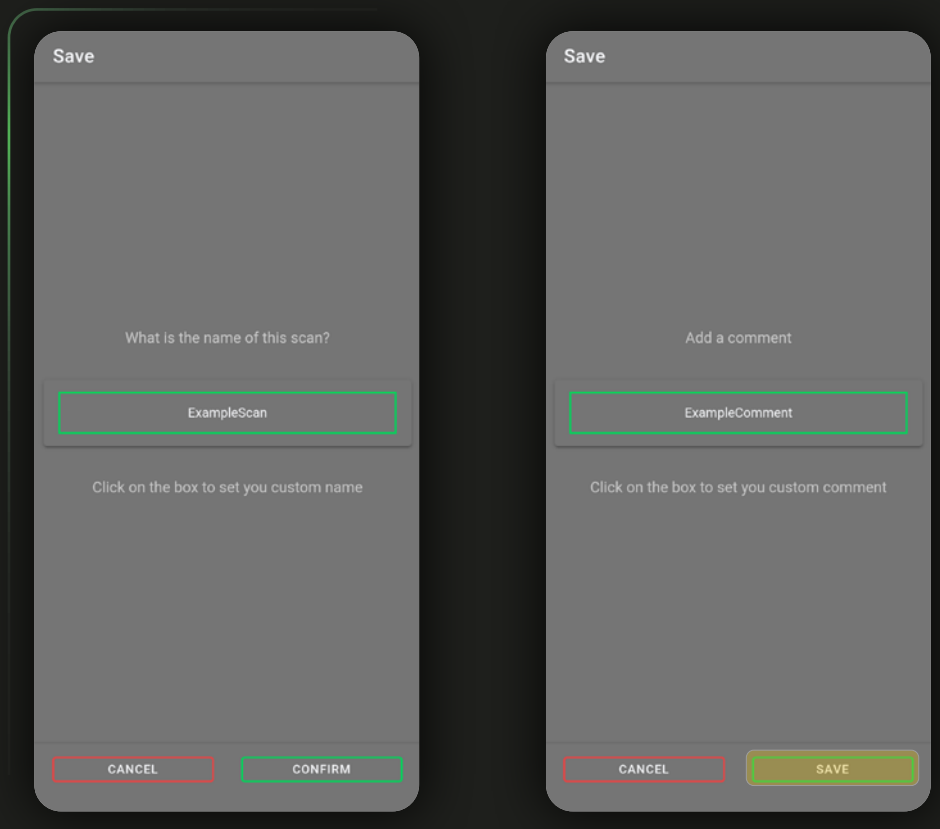
If you are happy with the result of your scan, but you don't want to share it immediately, you can store it locally using 

As a first option for saving you can decide which project to assign the scan to



You can select one from existing ones¹ or create a new one ad hoc for saving the current survey². Once the project to store the survey is chosen click 


You can name your scans (by default it will consist of “scan dd/mm/yy hour:min:sec”); finally you can add a comment, after which you can complete the save with  or cancel it with 

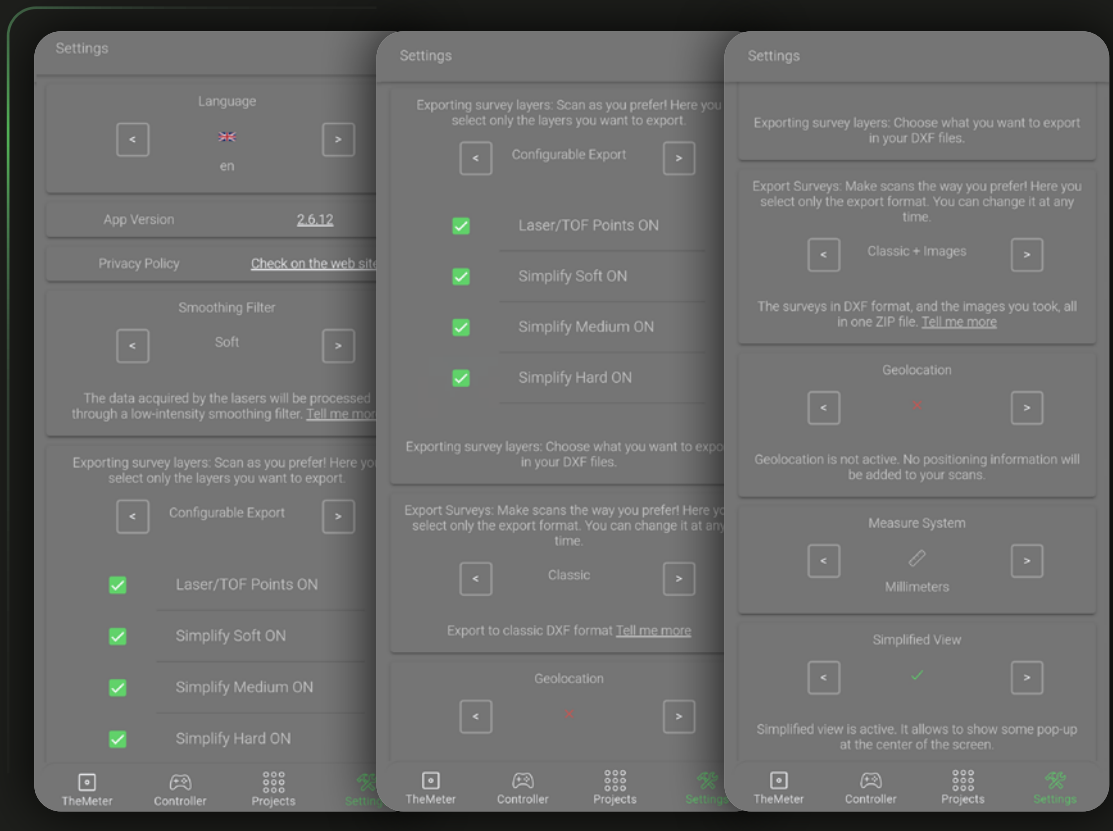


The image displays two sequential screenshots of a mobile application's 'Save' dialog box. The first screenshot, titled 'Save', asks 'What is the name of this scan?' and shows a text input field containing 'ExampleScan'. Below the field is a prompt: 'Click on the box to set you custom name'. At the bottom, there are two buttons: 'CANCEL' (red) and 'CONFIRM' (green). The second screenshot, also titled 'Save', asks 'Add a comment' and shows a text input field containing 'ExampleComment'. Below the field is a prompt: 'Click on the box to set you custom comment'. At the bottom, there are two buttons: 'CANCEL' (red) and 'SAVE' (green).



The saving information will be entered into the “Date” layer of the DXF file.

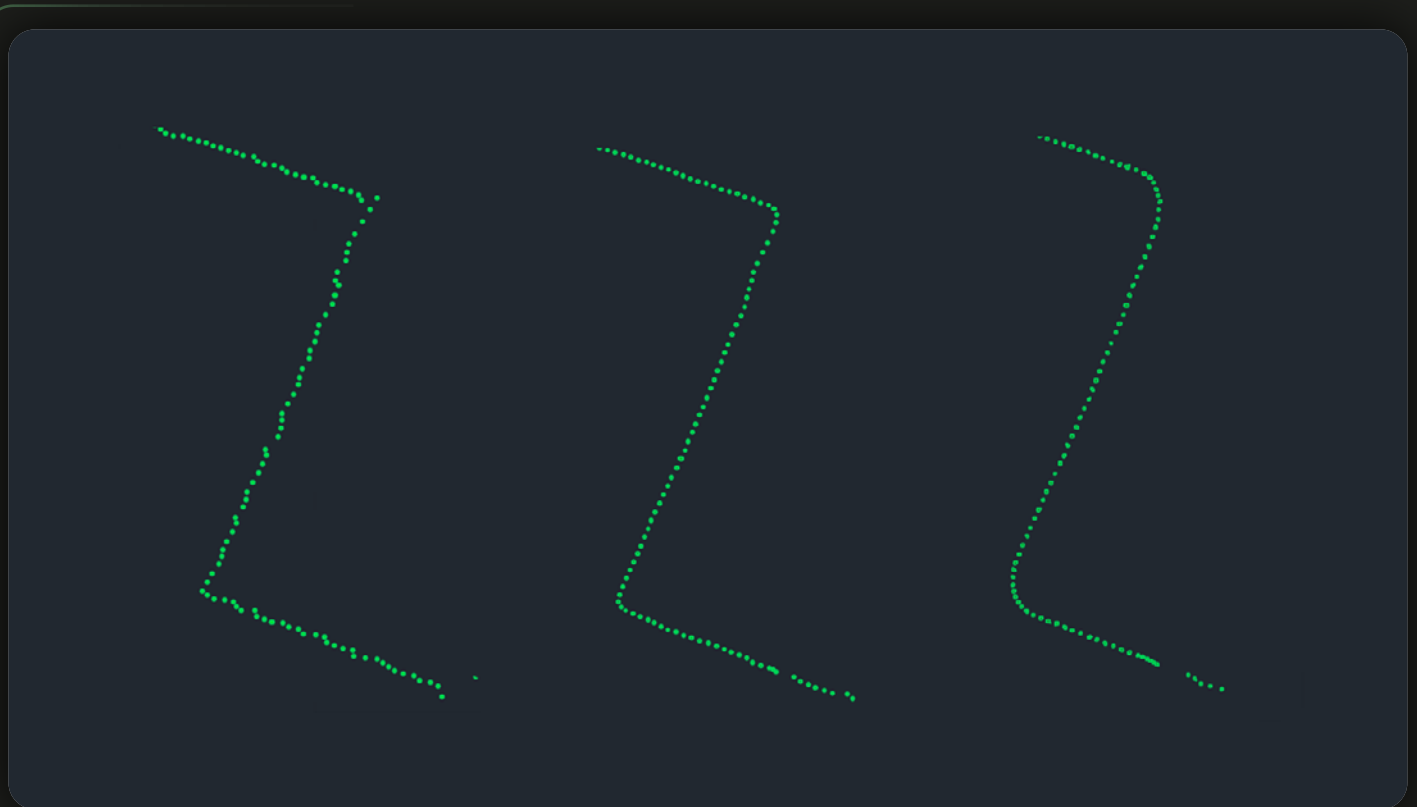
Once the survey operations are completed, your **CUBE** provides you a digital planimetry in DXF format, editable using any CAD software, different depending on the export settings you choose. We remind you to check them out in Settings  before starting the sharing of your scans



You will be able to decide whether to work on the raw scanned data or processed by Soft or Medium Smoothing Filters, which Layers to have between Points and the three Simplify types, and whether and how to integrate photographic documentation into your scan

OUTPUT

Smoothing filters act on the data contained in the scans only during the export by going to artificially realign the detected points, without changing the original data, to eliminate tolerance errors and possible background noise



Smoothing_Filter_Raw

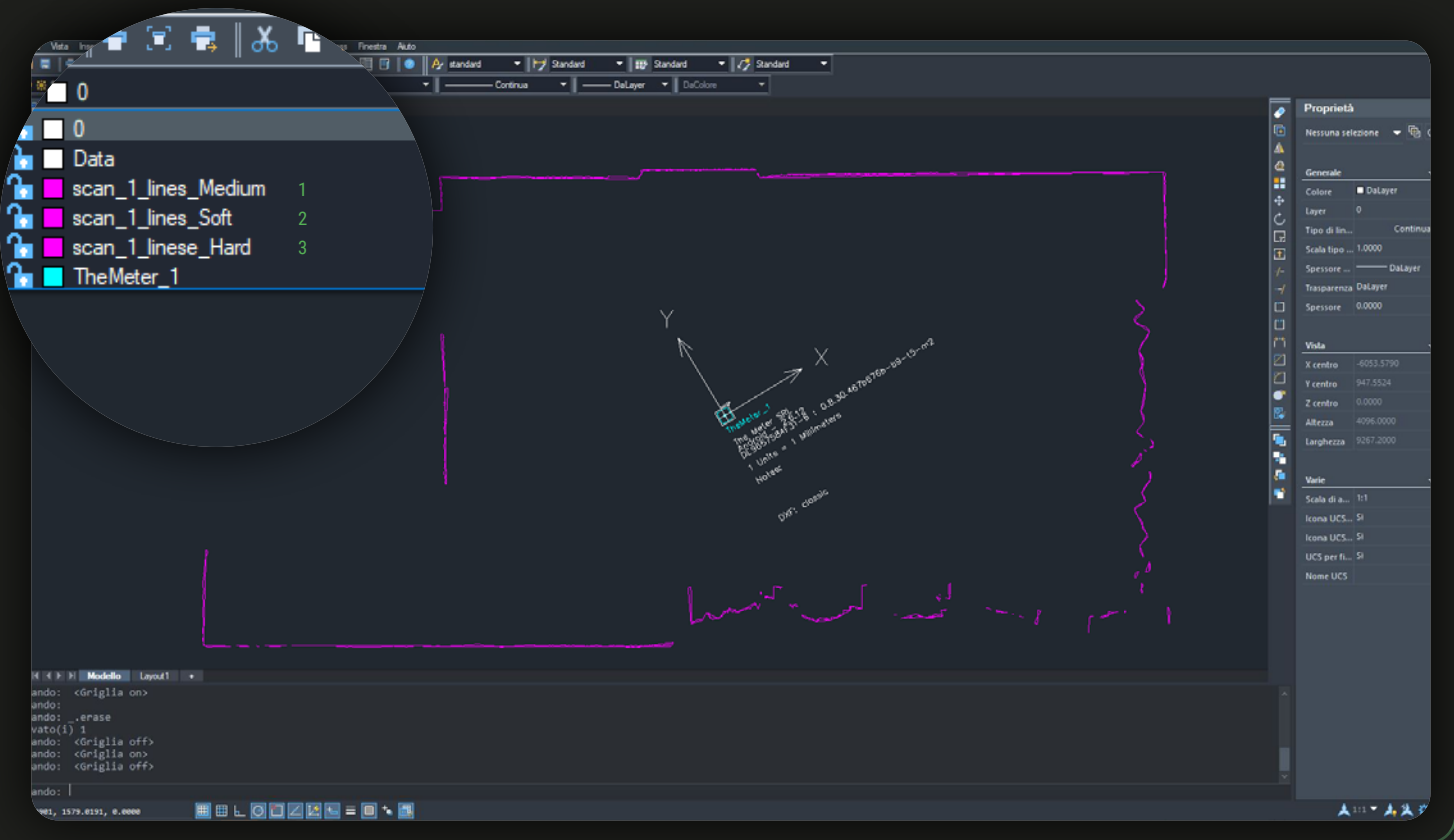
Smoothing_Filter_Soft

Smoothing_Filter_Medium

If we set the option to Raw, no change is applied, while Soft and Medium manipulate the data at two different levels of “intensity”

OUTPUT

The Layer Export Configuration allows us to choose which data to have in the DXF once we have shared them: set to Export Simplified will not consider any additional content such as markers or photographic documentation, even in the form of external attachments, binding the export format to “Classic”



The resulting export will be a DXF containing only simplified polylines, based on the scanned points, called Lines_Soft¹, Medium², and Hard³

OUTPUT

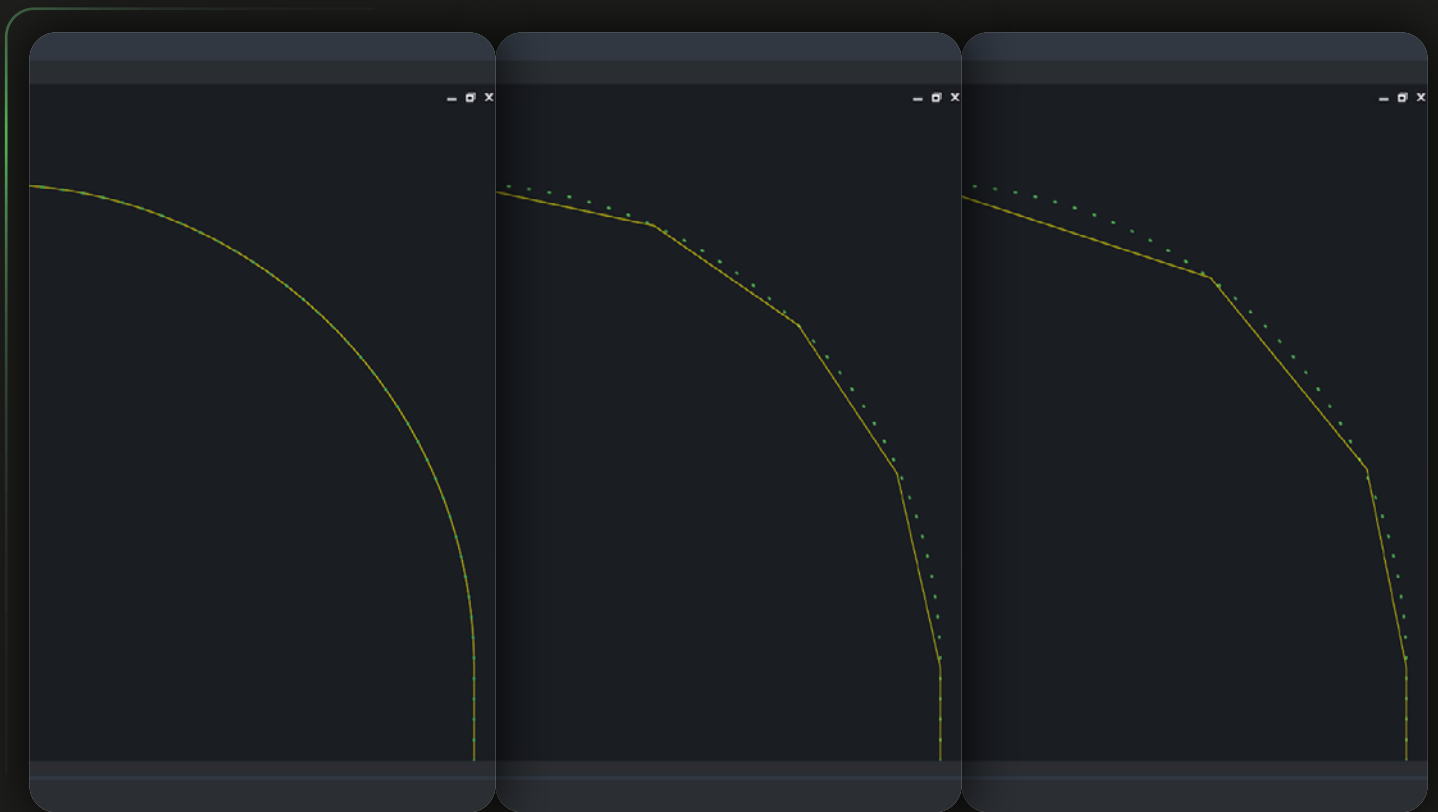
Instead Configurable Export allows us to choose both the export format and the layers we would like to have in the DXF, viewable in this way: “Data”¹ contains the generic data associated with the file, “Markers”² all added markers;



You can also find the scan point by point in “Points”³ and in three simplifications in polyline in the layers Simplify “Hard”⁴, “Medium”⁵ or “Soft”⁶, based on what you had choose to export; the layer “TheMeter”⁷ indicates your **CUBE** position

OUTPUT

The Simplify are simplified representations of the survey, where instead of the acquired points polylines are used, and their degree of rigidity is indicated by the Soft, Medium, Hard level



Simplify_Soft

Simplify_Medium

Simplify_Hard

When creating the polylines, the less reliable red points will not be considered, and the remaining ones will be connected with three different degrees of approximation

OUTPUT

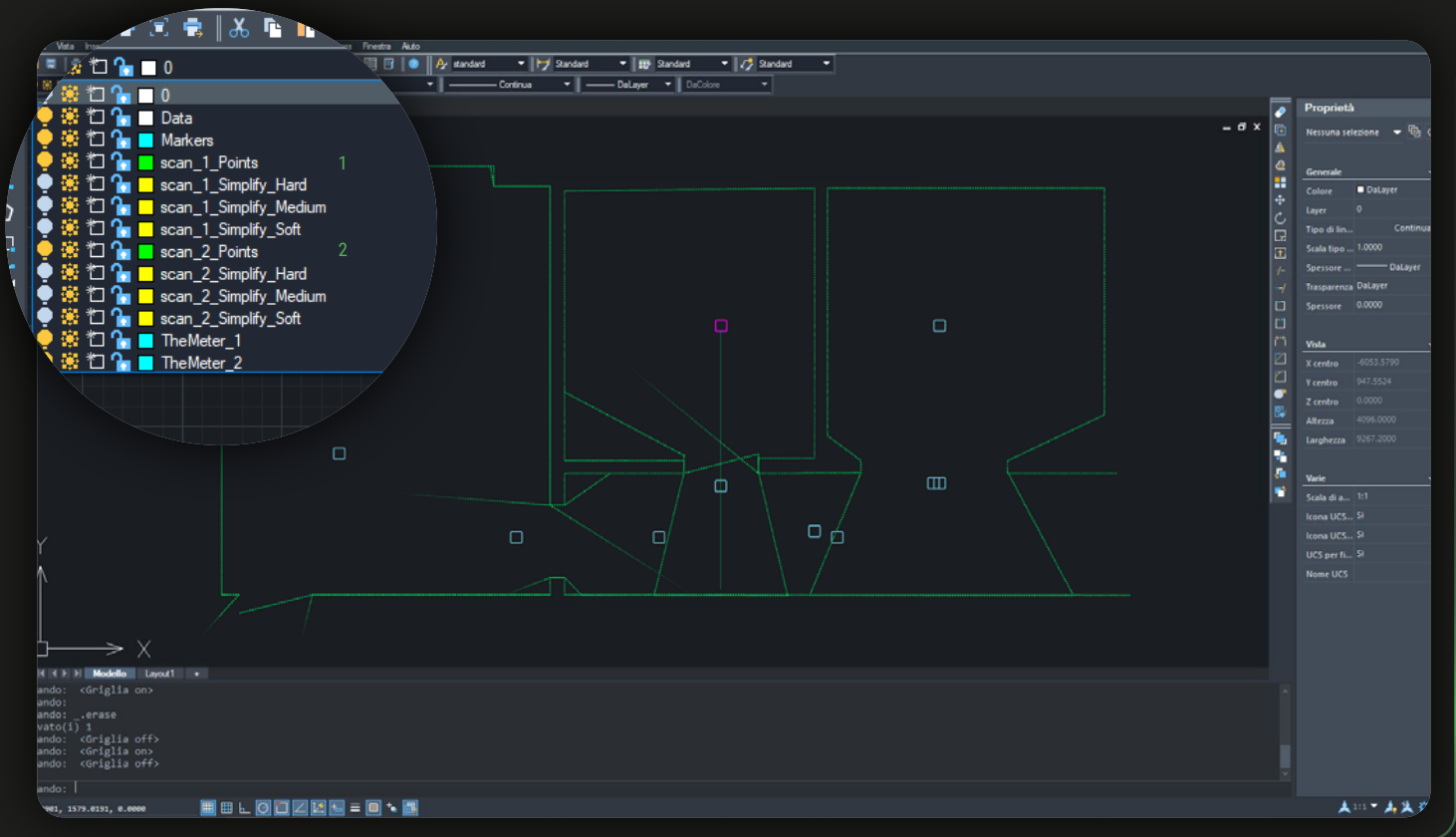
From the export format you can manage the photo documentation. Classic exports the DXF only, Classic + images exports both the surveys in DXF format and the images taken in a single zip file, NextGen exports the DXF file with the images embedded in it



Not all CAD software correctly reads DXF with integrated photo documentation. More details and information in the APP GUIDE - Settings section (Page 9)


OUTPUT

The digital plan of a Multiscan will contain the same division of levels, identified in addition, where necessary, by the indication of the scan to which it belongs (“scan_1_Points”¹, “scan_2_Points”² etc.)



As with single scans “Data” contains the generic data associated with the file, “Markers” all added tags, “TheMeter” the **CUBE** locations; You can view each scan by points in “Points” and in three polyline simplifications in Simplify “Hard”, “Medium” or “Soft”

MANUAL MODE

Welcome to the **Manual Mode** guide, we will explain all the functionalities; With this mode you can perform your scan directly choosing which points on the surfaces go to tap; By rotating the CUBE via The Meter app controller you can create polyline plans of your spaces, avoiding clutter and elements you don't want to have in the resulting DXF file. To start, turn on your **CUBE**, holding the button A until the LED turns green, then click  on the App



YouTube



SCAN ME!

alternatively you can also watch our video tutorials of the modes, you can find them on our youtube channel or by scanning the QR code above!




CONTROLLER 🎮

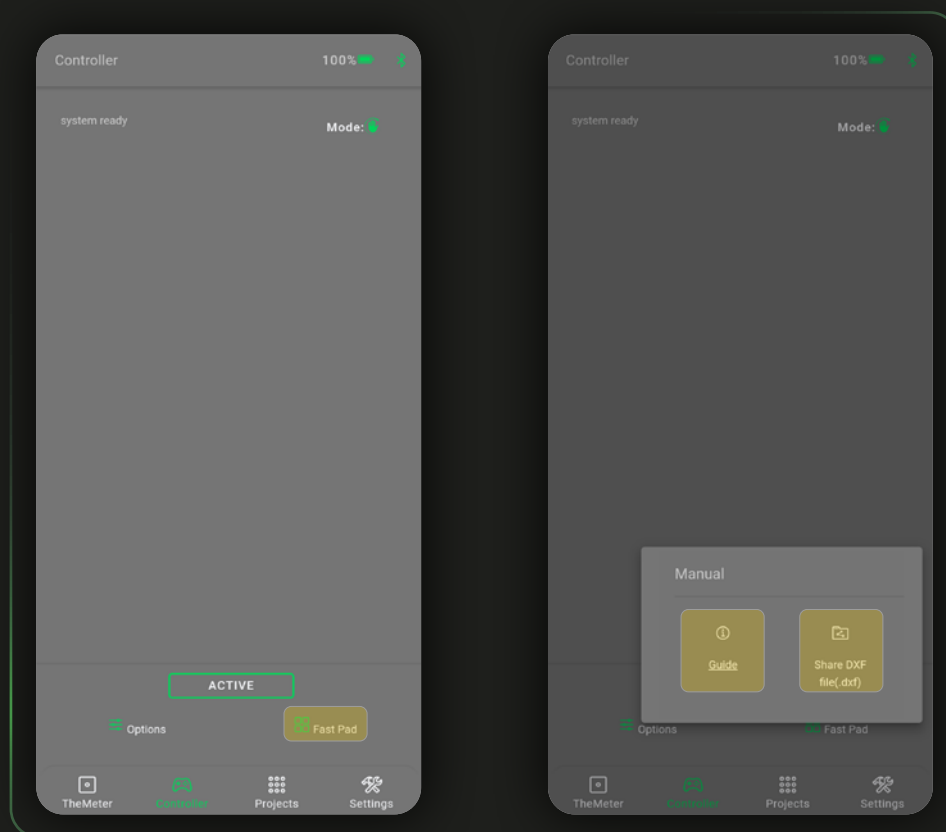
Switch to the Controller 🎮 screen and select the Manual 🖱️ mode by clicking on **Mode:**



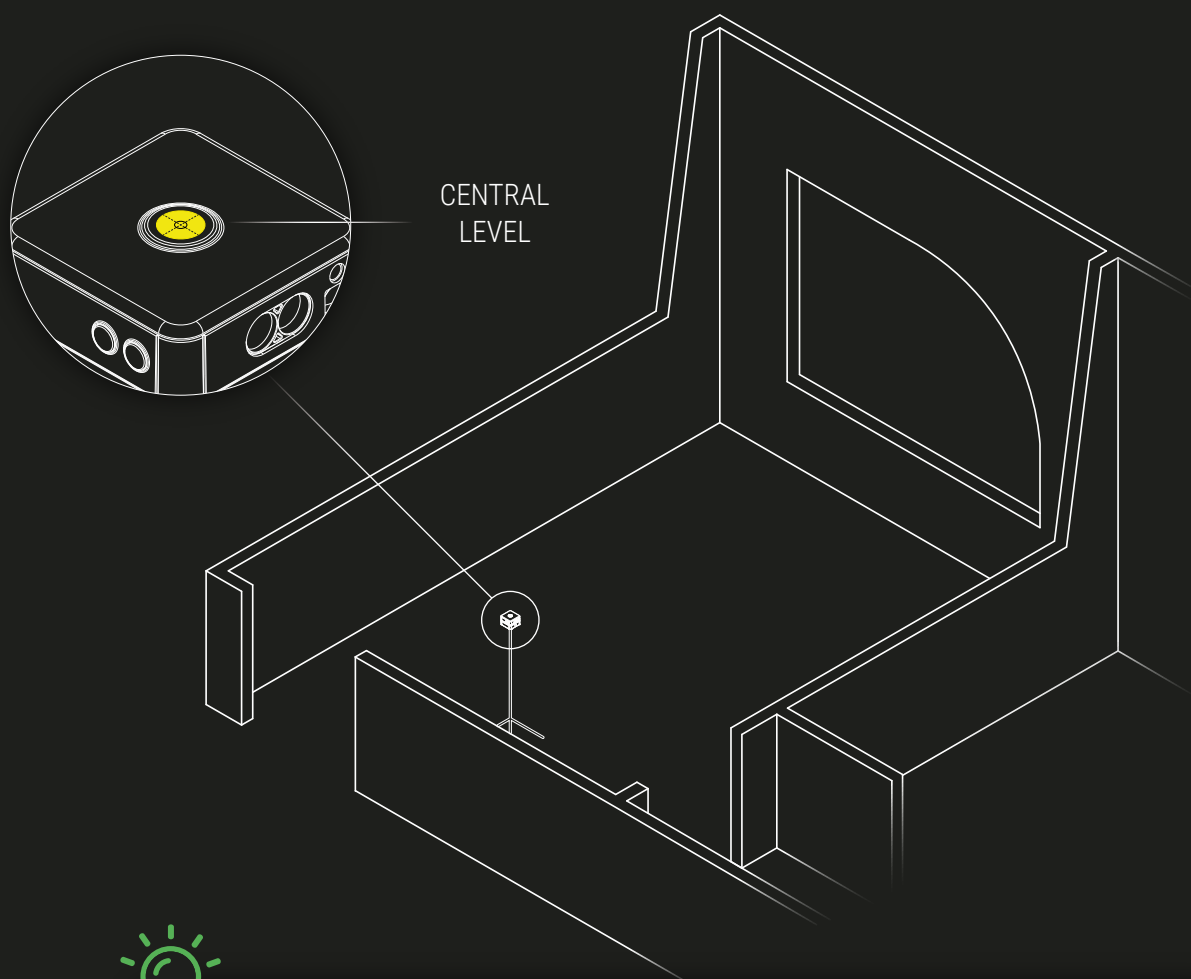
The button **Mode:** indicates the active mode; At the start of the app you will always be in the automatic mode

FAST PAD 

In Fast Pad  you will find the link to the Guide  of the current mode and the possibility to share the last scan recorded on the device with 

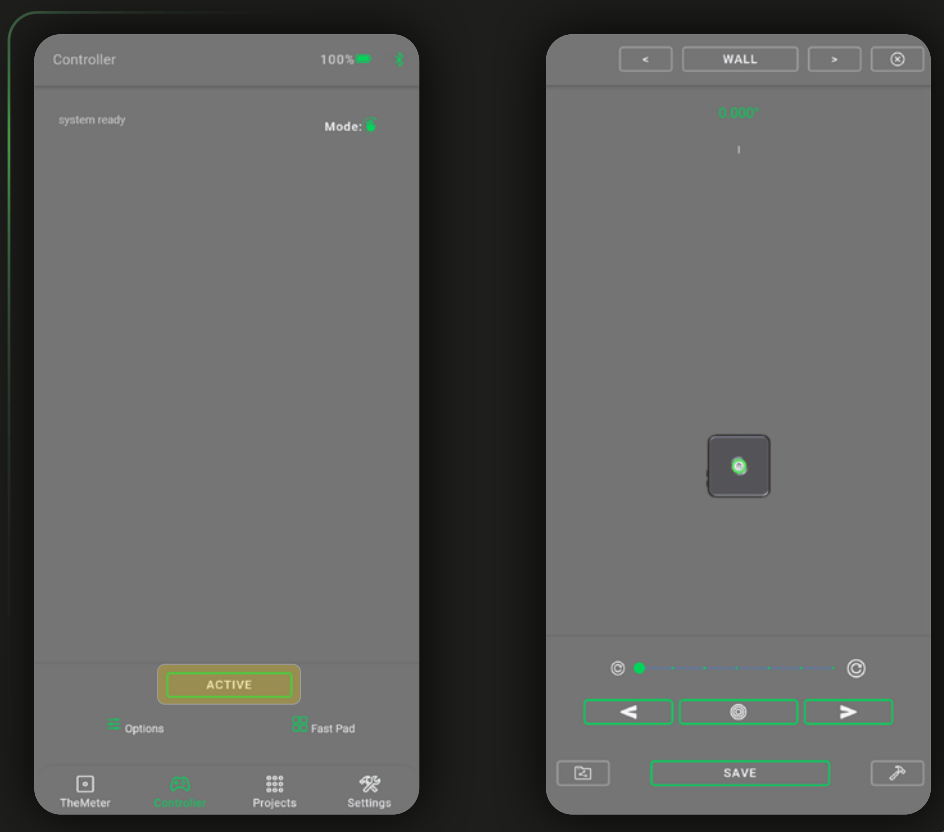


To start, before activating the Manual mode, place your **CUBE** in the position where you want to scan









Place your **CUBE** ensuring correct levelling of the device, at the most useful point to take all the details in your environment

To activate the mode click on **ACTIVE**; now you can rotate, only via the App interface, your **CUBE** to reach and beat the desired points with which to create your floor plan.




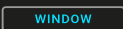
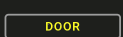





To avoid damage to the instrument or errors in the survey, it is important not to rotate by hand or move the **CUBE** once the Manual mode is activated

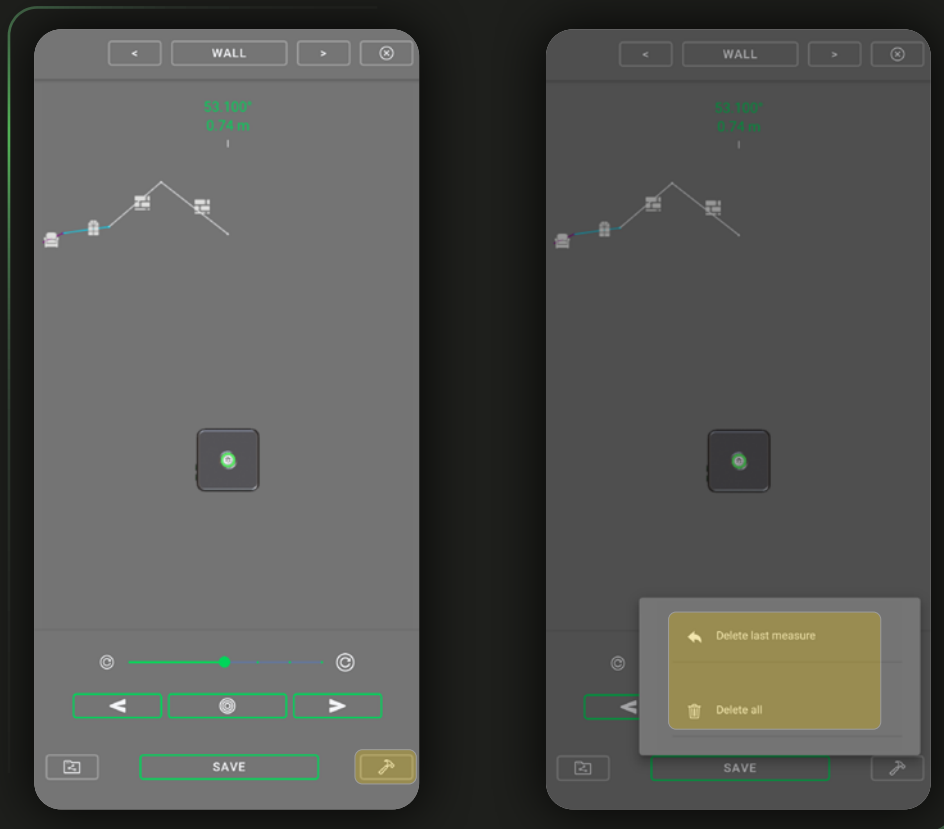
SCANSIONE 


Use  and  to make a rotation to the left and right; to increase or decrease the angle of rotation drag the slider  along the bar between the minimum step  and the maximum step . With  you catch the chosen point



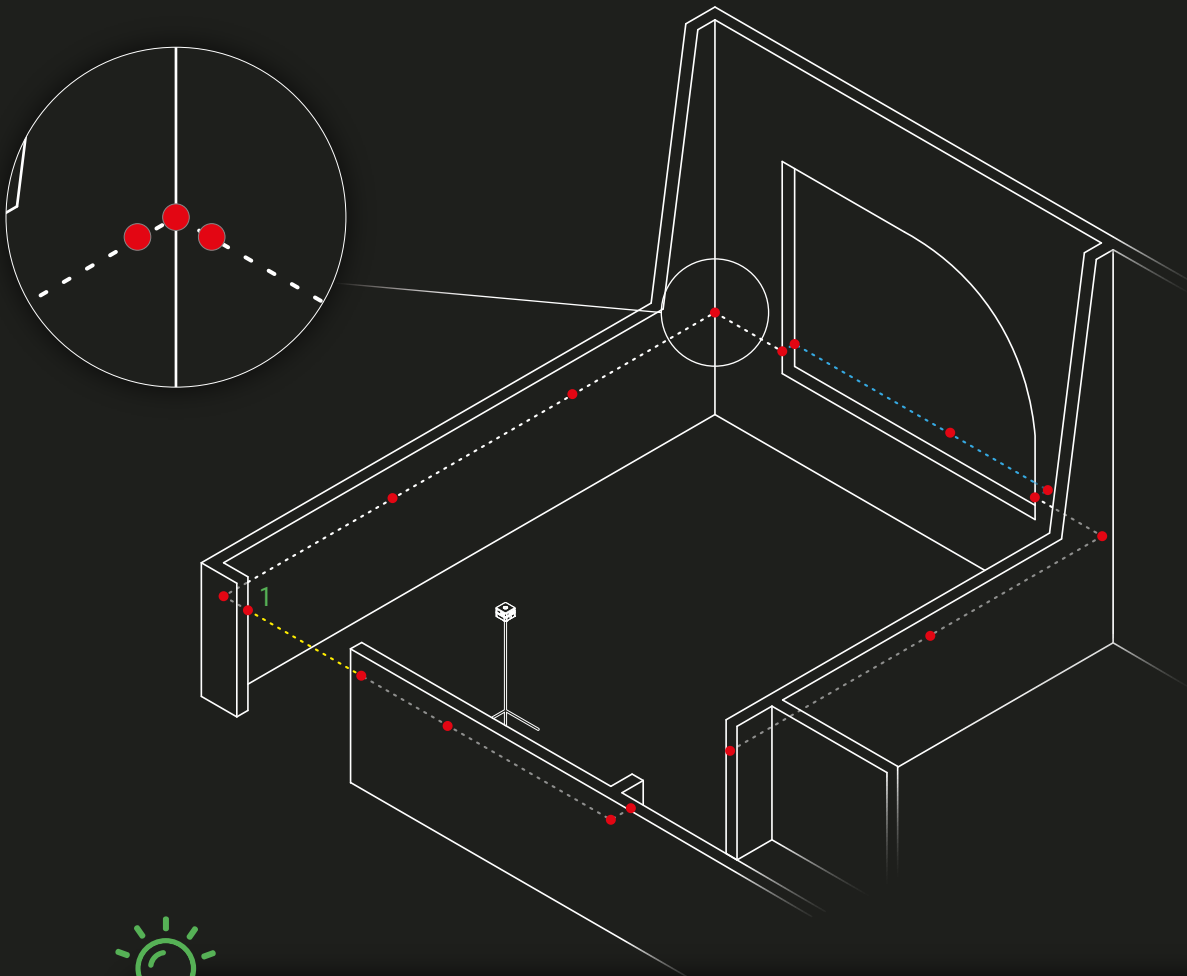
Using the button  and  you can decide which layer to mark with the track between    
 before catching the end point of the line

To correct errors in the scan you are running click on the  button : you can delete backwards point by point with  or directly the entire survey with 



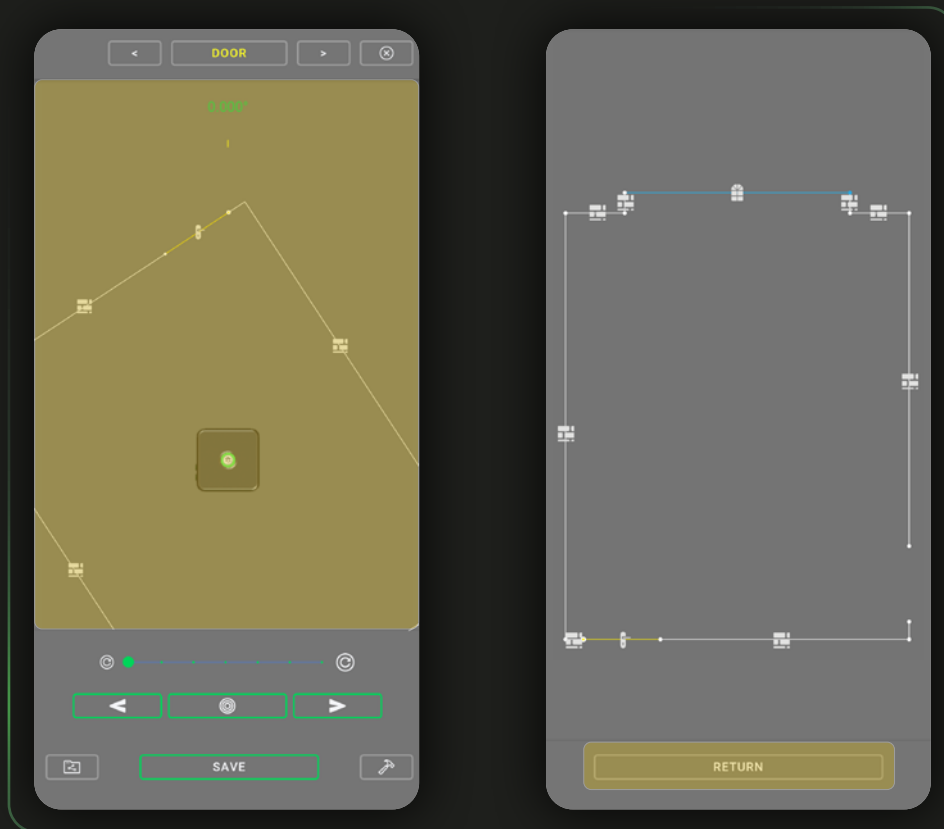
With the level  all the points that will come beaten will not be connected to the previous point via polyline


The survey shown as an example begins and ends at **1**, developed in clockwise with the acquisition of the points we considered most important




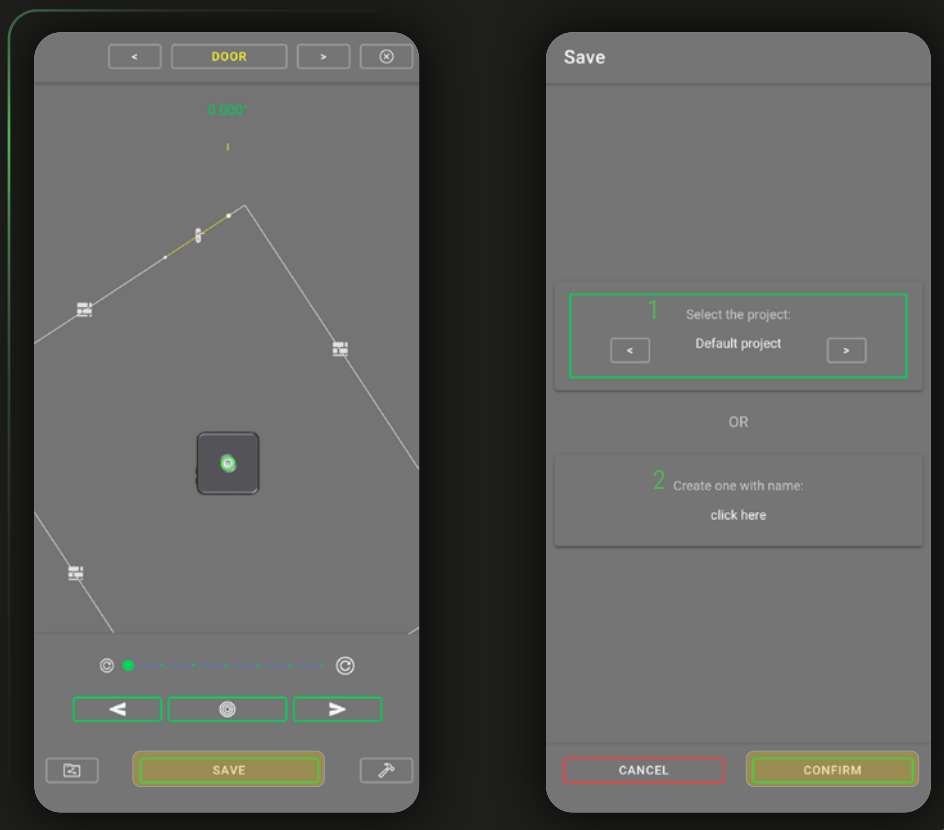
To have a more reliable survey and decrease human and device error not only beat the corners, but also adjacent and intermediate points along the walls


During the construction of the survey, the app shows you on screen the project development following the point of view of **CUBE**



To view it freely you can access the preview screen tapping anywhere on the floor plan box; by clicking  you can continue with the scan

If you are happy with the result of your scan, but don't want to share it immediately, you can store it locally using  ; As a first option for saving you can decide which project to assign the scan to



You can select one from existing ones¹ or go and create new one ad hoc for saving the current survey² . Having chosen the project in which to store the survey click 

You can name your scans (by default it will consist of “scan dd/mm/yy hour:min:sec”); finally you can add a comment, after which you can complete the save with or cancel it with .

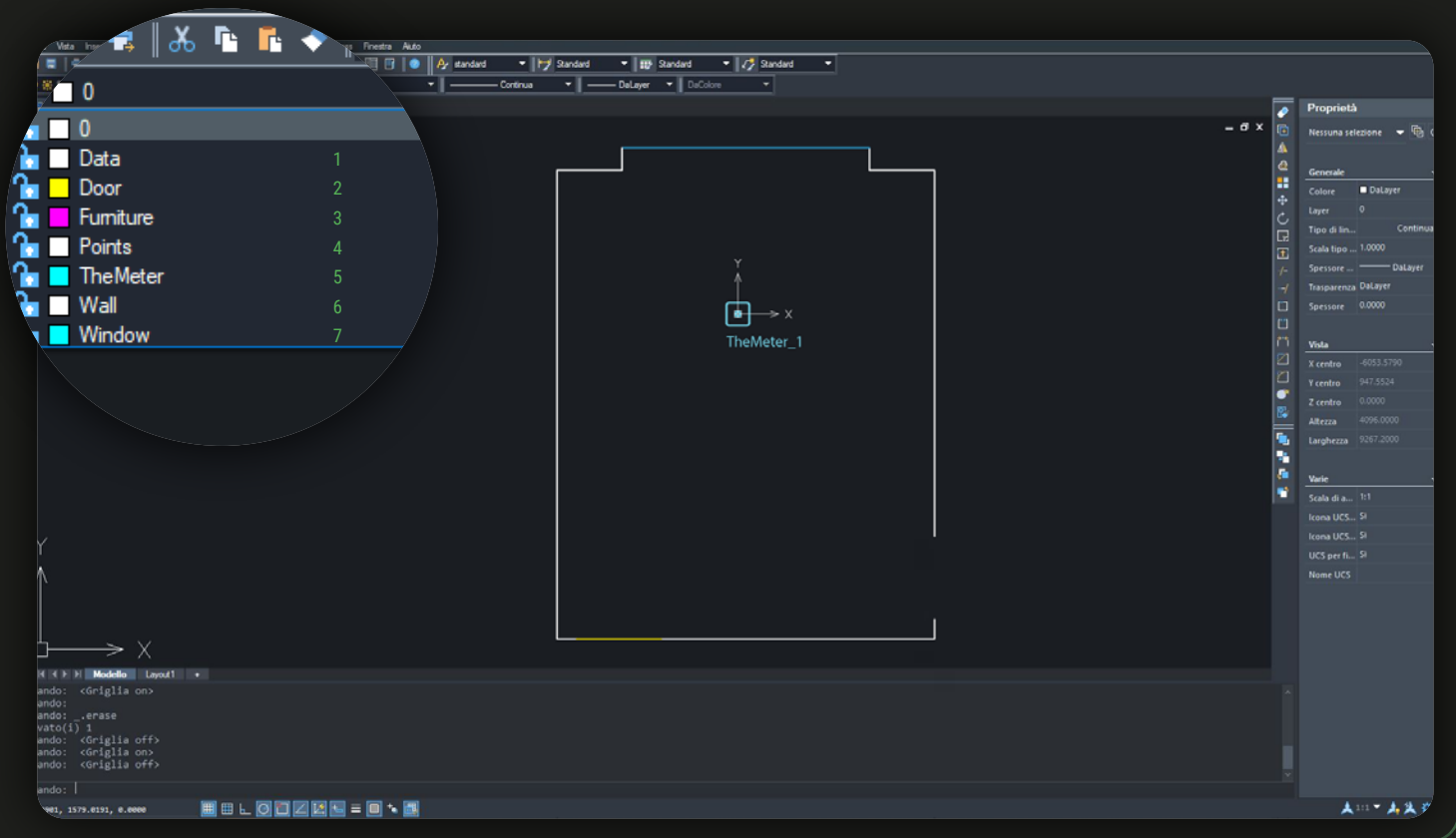
The image displays two sequential screenshots of a mobile application's 'Save' dialog box. Both screens have a title bar labeled 'Save'.
The first screenshot asks 'What is the name of this scan?' and features a text input field with 'ExampleScan' entered. Below the field is the instruction 'Click on the box to set you custom name'. At the bottom, there are two buttons: 'CANCEL' (red) and 'CONFIRM' (green).
The second screenshot asks 'Add a comment' and features a text input field with 'ExampleComment' entered. Below the field is the instruction 'Click on the box to set you custom comment'. At the bottom, there are two buttons: 'CANCEL' (red) and 'SAVE' (green).



Saving information will be entered into the “Date” layer of the DXF file.


OUTPUT

Once the survey operations have been completed, your **CUBE** provides you with a complete and digital floor plan in the DXF file, containing all collected data and editable using any CAD software.



The drawing is divided into several levels: in “Data”¹ you will find the generic data associated with the file, in Door², Furniture³, Points⁴, Wall⁶ and Window⁷ the polylines with which you have created the scan, in “TheMeter”⁵ the location of **CUBE**

DISTANCE METER AND REAL-TIME MODE

Welcome to the **Distance Meter** and **Real-Time** mode, we will explain all the functionalities; With this modes, your **CUBE** takes measurements of any distance in real time in a single or sequential way . To start, turn on your **CUBE**, holding the button A until the LED turns green, then click  on the App




YouTube

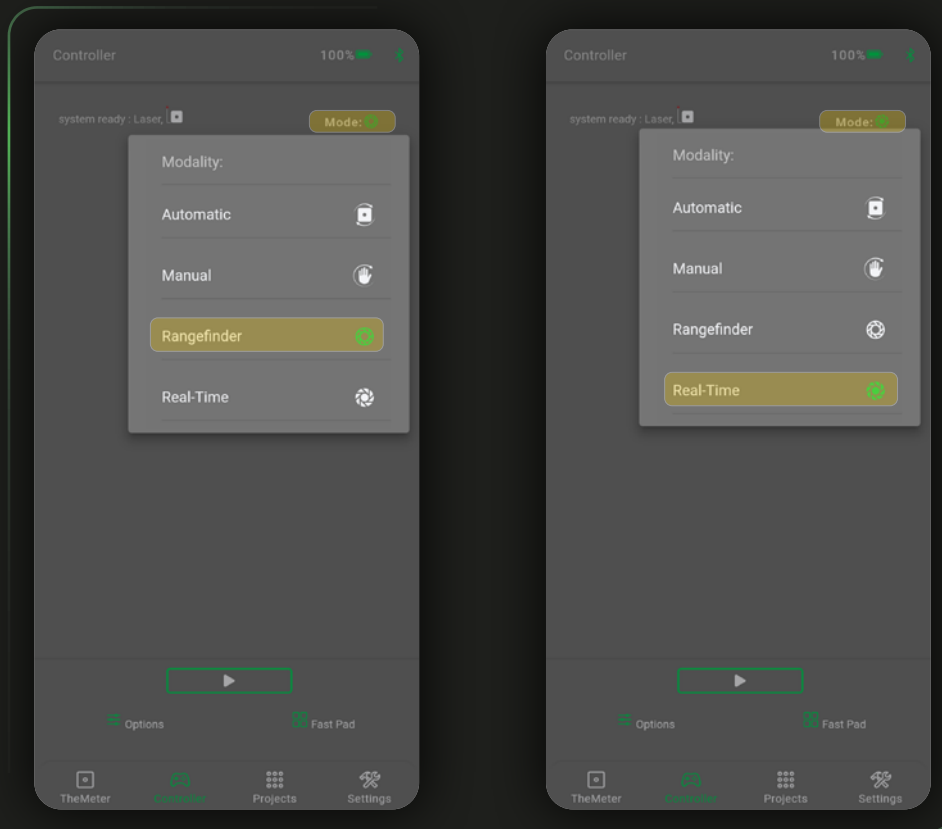


SCAN ME!


alternatively you can also watch our video tutorials of the modes, you can find them on our youtube channel or by scanning the QR code above!

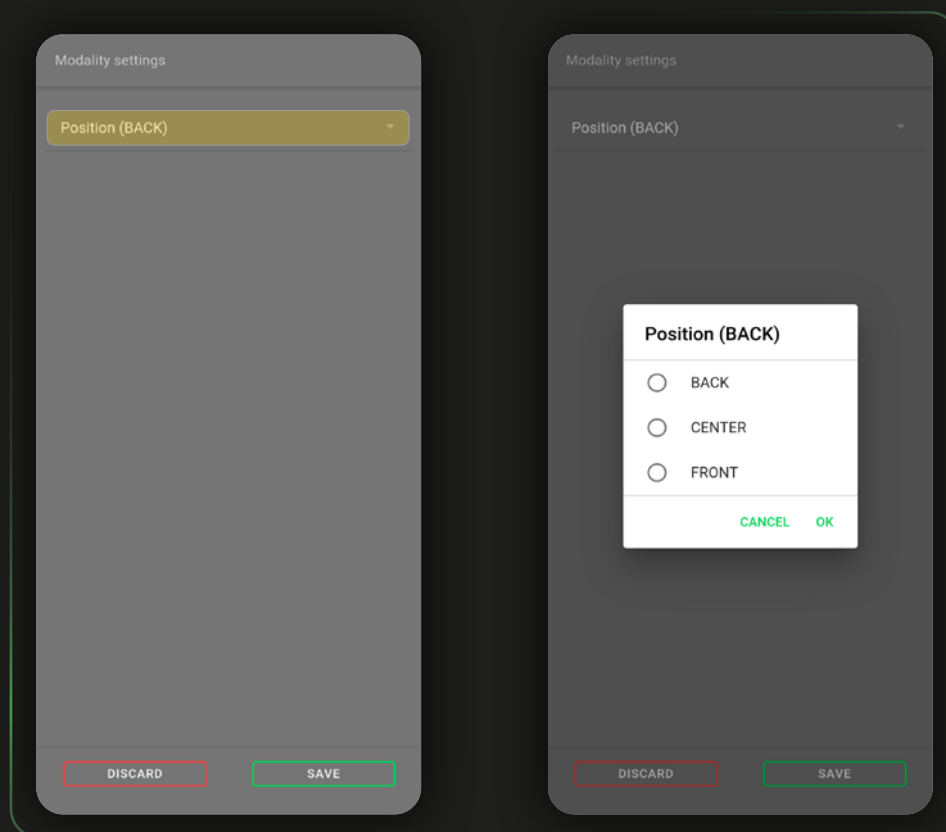
CONTROLLER 






Switch to Controller  screen and select the Rangefinder  or Real-Time  by clicking on **Mode:**

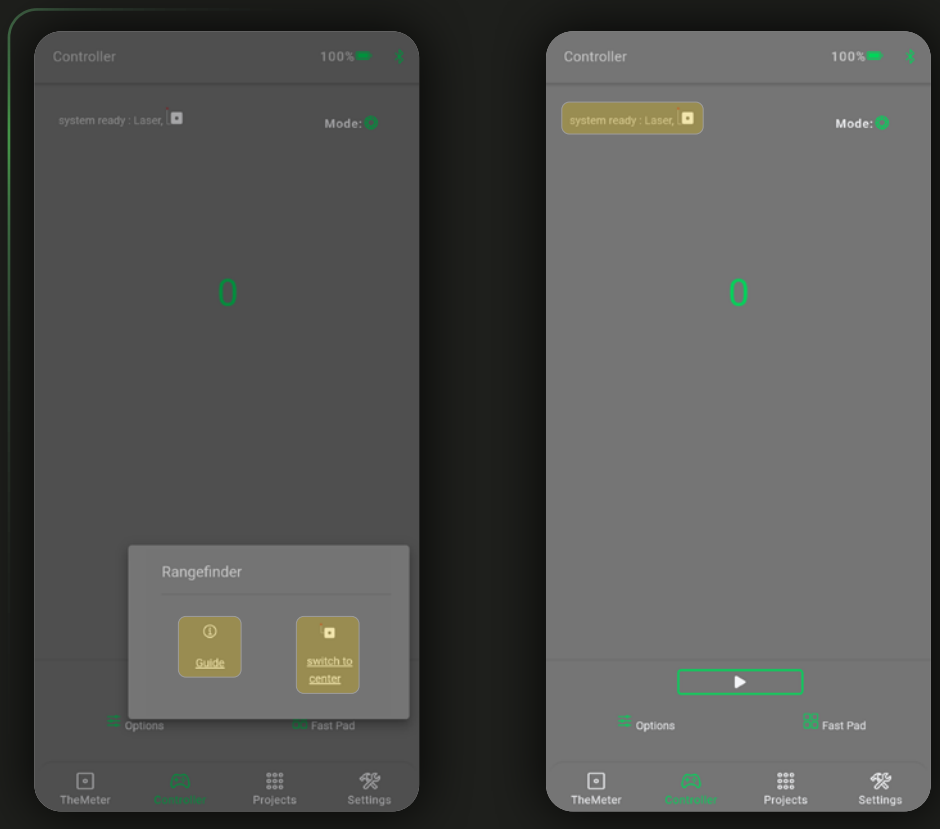


The button **Mode:** indicates the active mode; At the start of the app you will always be in the automatic mode




In Options  you can set the reference point for calculating the distance between the back limit, center, or front limit of the tool, depending on your needs

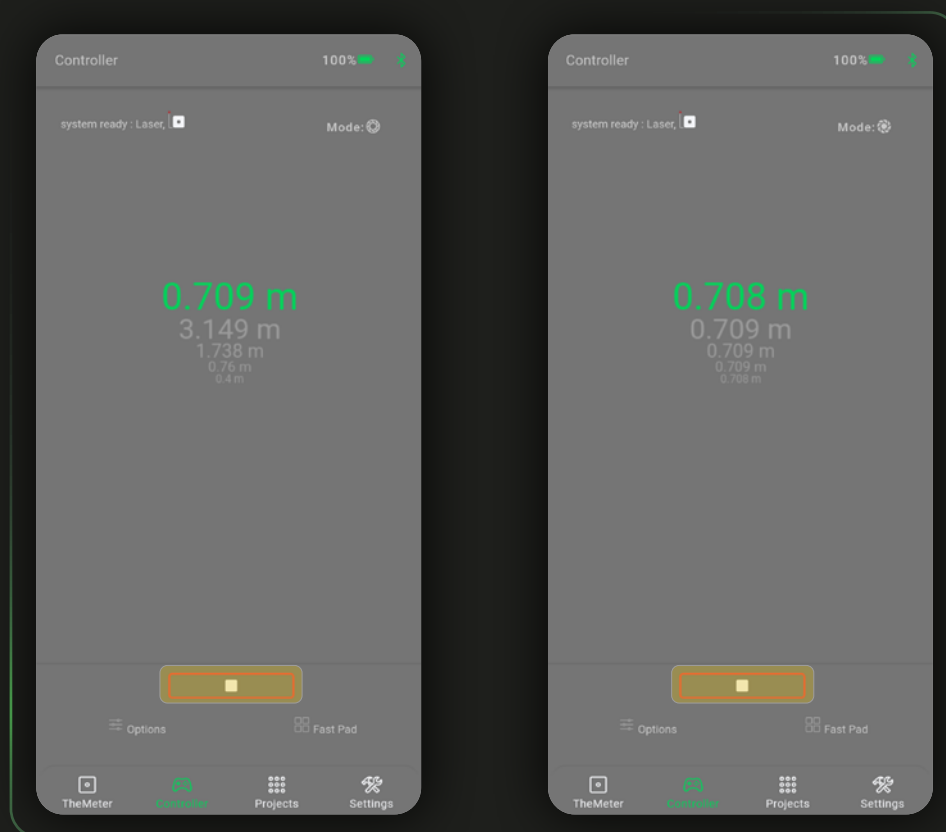




In Fast Pad  you will find the link to the Guide  of the currently active mode, and switch to center , front , back  moving the reference point for calculating the distance to the specified location



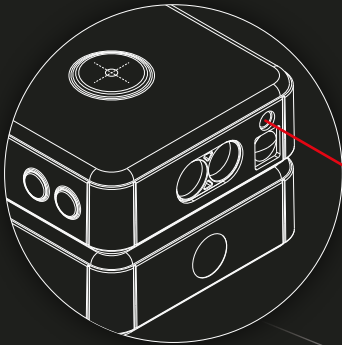
You can find out the position of the reference point via the indication in the upper left-hand corner that indicate the currently setting

To activate the modes click the button  : selected the Rangefinder 
 then click the B button of your **CUBE** to take measurements. In Real-Time 
 mode the device records the distance continuously and autonomously

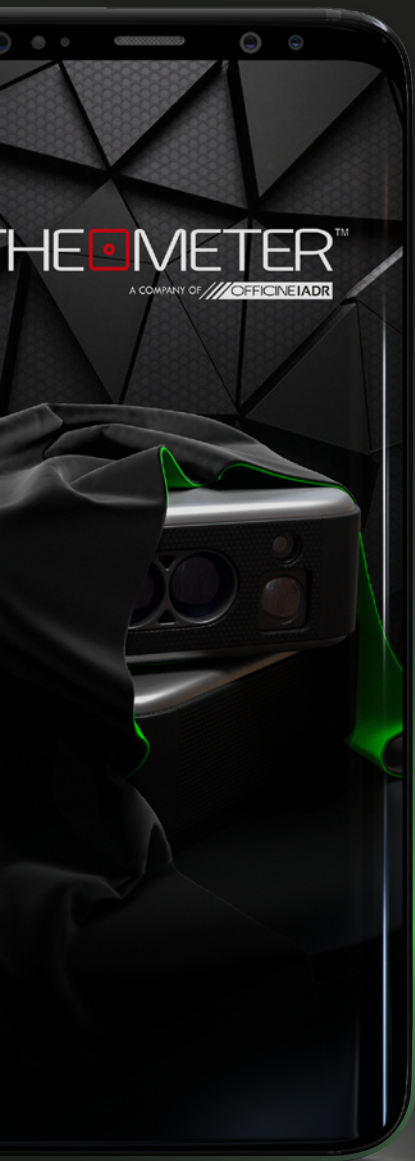


In both modes active, the last five measurements are displayed on the screen. To stop the measurements and return to the Controller  screen click the 

To get more accurate measurements place the top of the device against a surface, to reduce its movement while pressing the B button to capture the measurement



Real-Time mode makes it easier for you to make measurements in contexts in which you don't have the opportunity to interact easily with your **CUBE** once placed



Images used are for illustration purposes only, may differ from reality
Some features are not available in all regions.

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