VISION GROUP

SMART VISION

User Manual

Sep 2023

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Smart Vision Introduction

The SmartVision is a BLE-enabled device that has built-in sensors to record cooler telemetry data, monitor door actions, Magnetometer, and take cooler images.

1 SmartVision

Bar Code

Wake Up Sensor

SmartVision MAC

Smart Vision SR#

M

Door Sensor

2 Magnet

Magnet with housing with 3M adhesive tape (25 x 22.7 x 12 mm) for Door sensor D1.

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The installation position of Smart Vision and Magnet are depended on the cooler model.

The next section will explain the installation position.

NOTE: DO NOT WAKE UP THE DEVICE BEFORE THE DEVICE INSTALL IN THE COOLER.

Important Conditions for Installation:

- Smart Vision must always be installed in the Cooler cabinet (Preferable place is on Slide - #4). Edge of the door, opposite the hinge.
- Make sure the magnet should install opposite the door hinge and towards the Door sensor installed inside the cabinet.
- Clear the cooler surface using a tissue if dust or water particles are available.
- For Installation, peel the cover from the 3M adhesive tape and place the Smart Vision on the cooler Door. Allow it to stay for 30 seconds without any disturbances.
- If there are any changes to be made in the installation position there is only a 30-second window to move it, after 30 seconds the Device will stick permanently.

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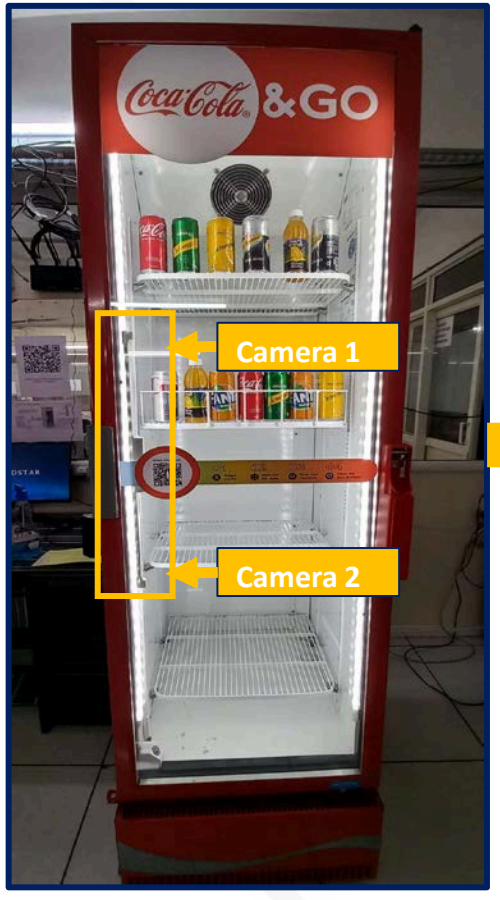
The Smart Vision device is installed at the center of the cooler door using 3M double side tape shown below image.



Smart Vision is installed completely aligned with the inner edge of the door without obstructing the door's close. Smart Vision must be installed inwards from the cooler door frame and should not touch the Cooler LED while Door is closed.

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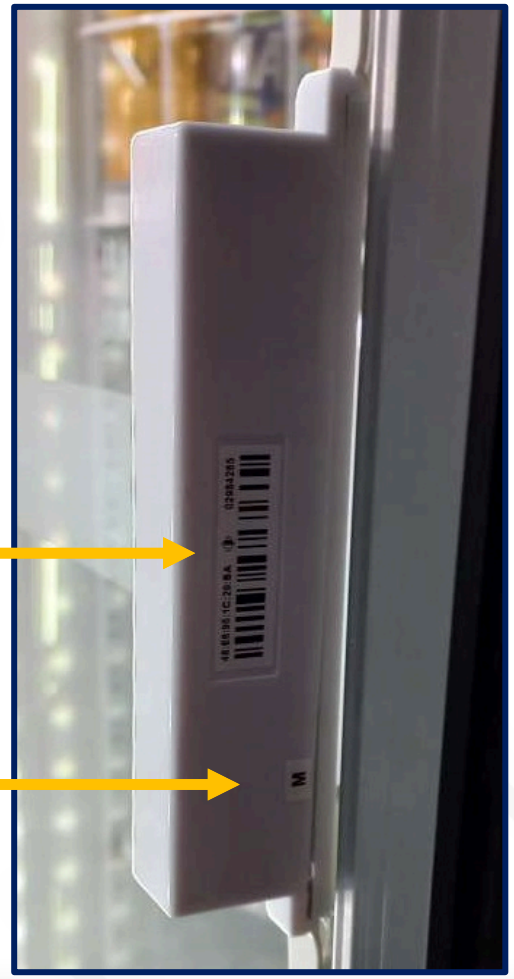
Ensure that the device is installed the same as shown in the below image (Barcode should be facing toward the magnet).

There the Device has two sensors: a wake-up sensor to wake up the smart device and a Door sensor to monitor the door operation of the cooler.

Wake Up sensor

Door Sensor



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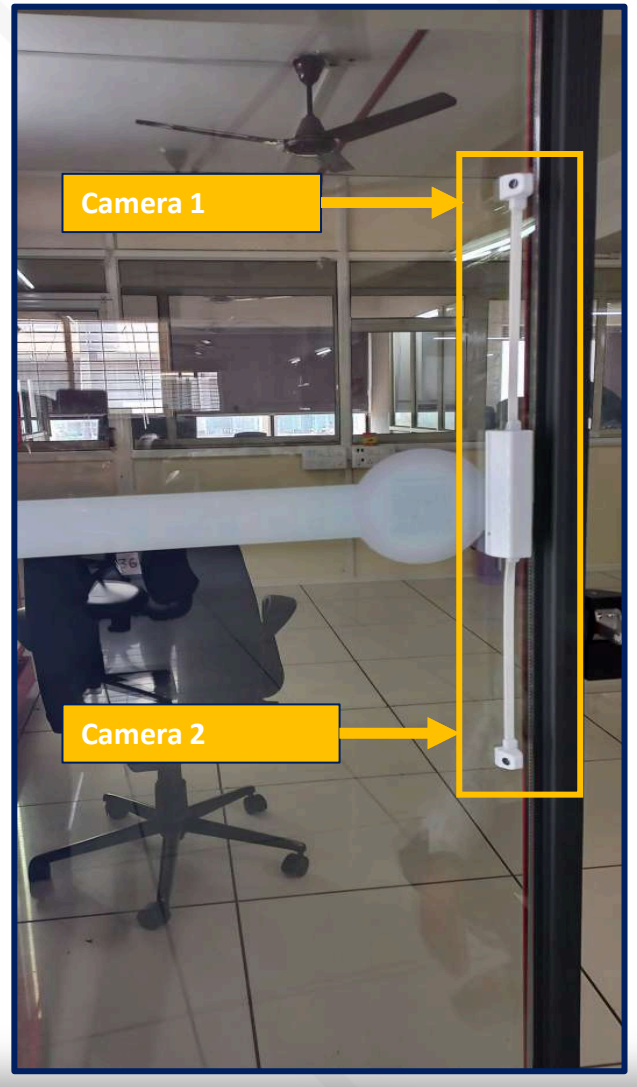
See below the image installation positions for Camera 1 & Camera 2.



Camera 1
The installation position is the upper side of the installed Smart Vision

Camera 2
The installation position is the lower side of the installed Smart Vision

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Wake Up Process

After Installing the Smart Vision Device follow the below points for the further process.

- It is important to keep the magnet near the Wake-up Sensor in the gap within 1 cm between the Device and the magnet for a minimum of 20 seconds Continuous as shown in the image.
- This will ensure that the Wake-up Sensor is triggered properly, and the Device will be able to wake up. Failure to do so may result in the device setup not working correctly.

- After waking up, the device will start advertising for 15 minutes.
- During this advertisement period, the installer must complete the magnet installation on the cooler wall, and the association process with the phone application within the 15-minute time limit.
- This process needs to be completed to ensure that the device is properly configured.
- Once the installation and association process is complete, the device will be ready for use.

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Magnet Installation

The magnet installation position might depend on the cooler model.

Important Conditions for Installation:

- The magnet is always installed opposite to the SmartVision (Magnet should be installed on the Cooler wall and towards the Device Door sensors.
- The magnet must be placed on the wall of the cooler such that when the door is closed, the magnet lies <10 cm from the Smart Vision door sensor position.
- Wipe the moisture from the installation spot using dry tissue.
- Peel the cover from the 3mm tape and paste the magnet in the required position.
- If there are any changes to be made in the position of the magnet there is only a 30-second window to move it, after 30 seconds the magnet will stick permanently.

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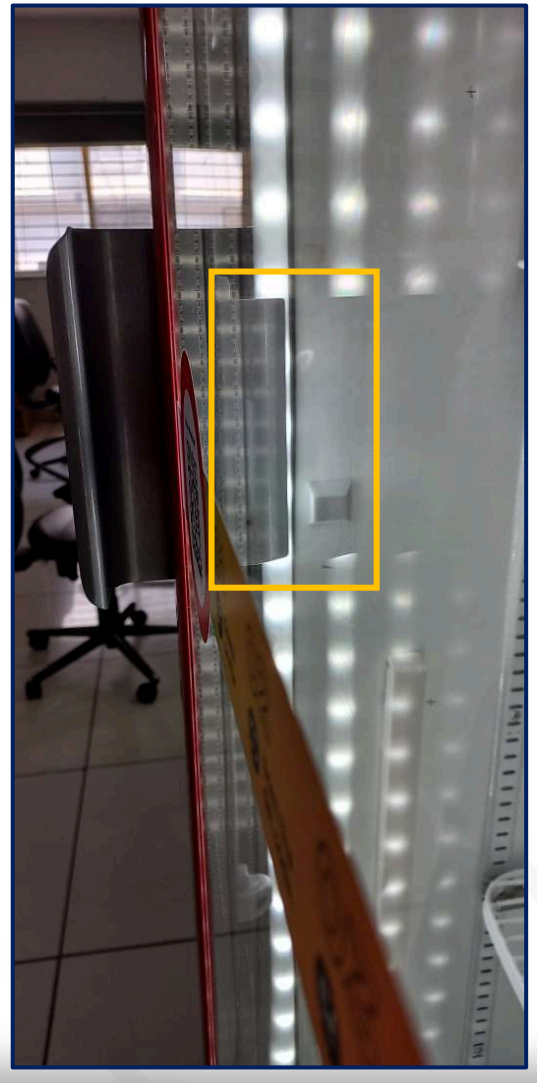
If the user has a circular magnet, install it like a square one, as shown below. The magnet must be placed exactly in front of the smart vision on the inside edge of the cooler.

Magnet for Door Sensor

The magnet should be installed edge of the device and the front of the magnet sensor- See image slide.



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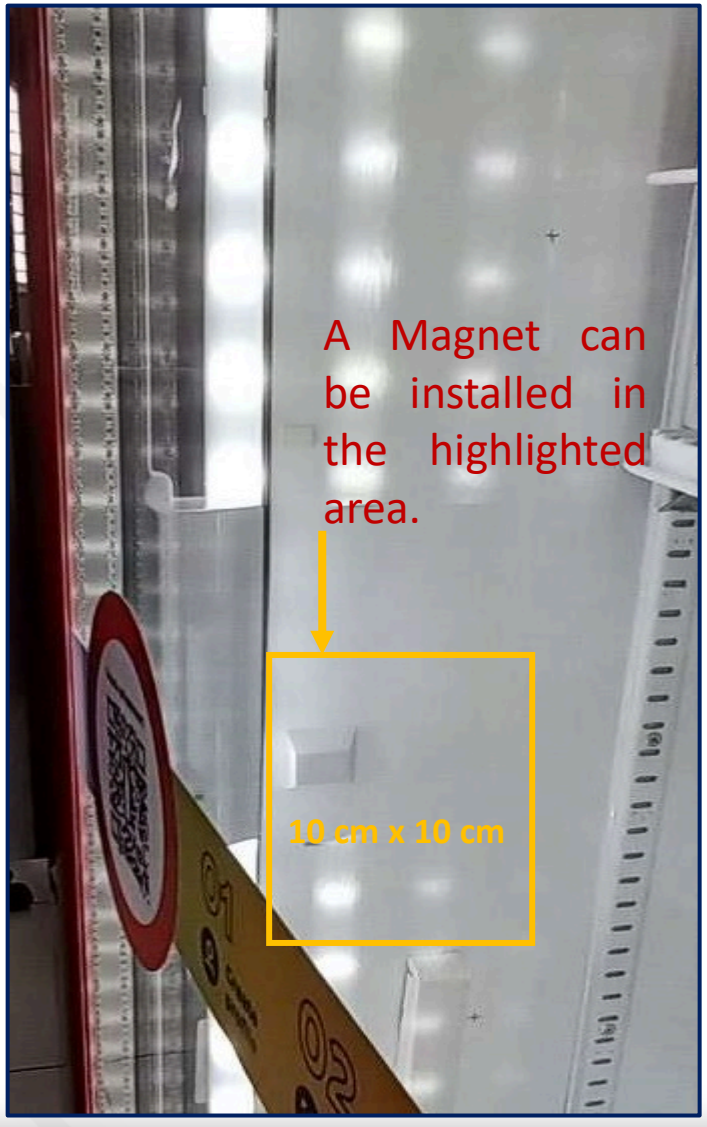
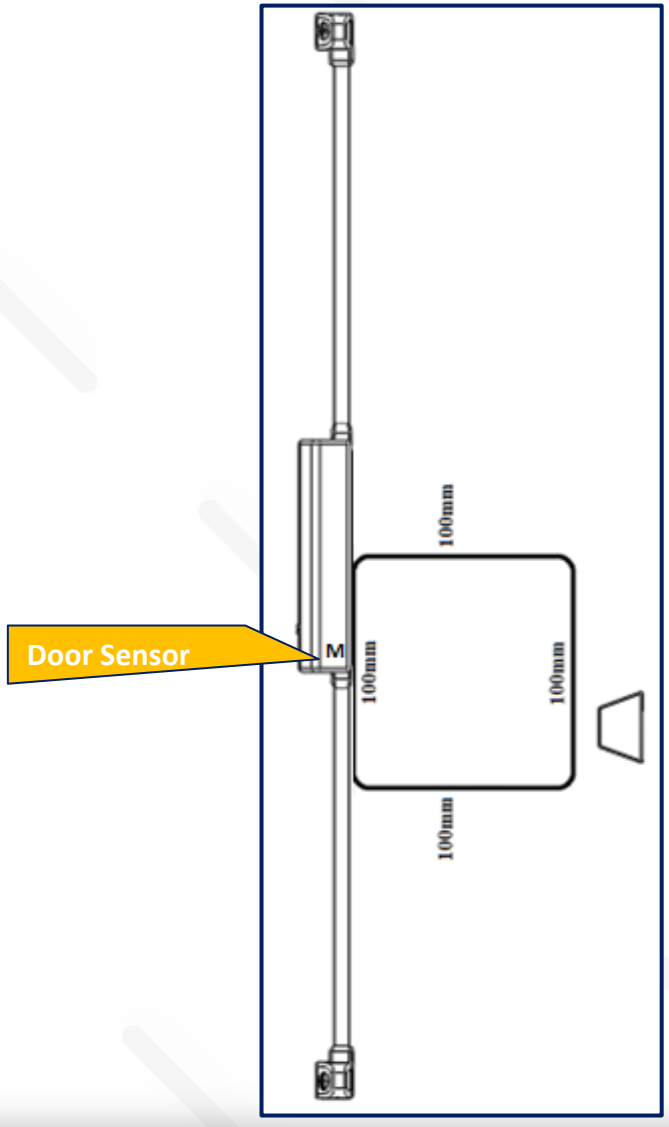
A Magnet can be installed in the below showing range area for the Door Sensor.





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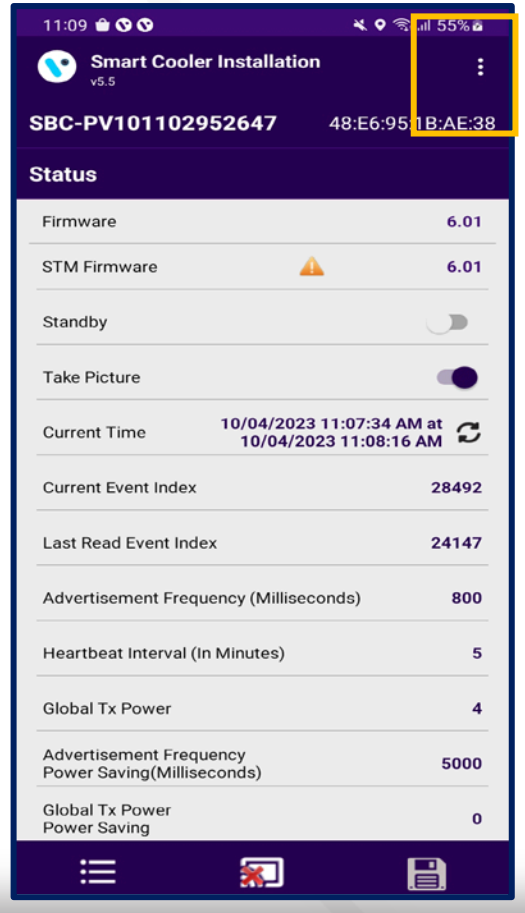
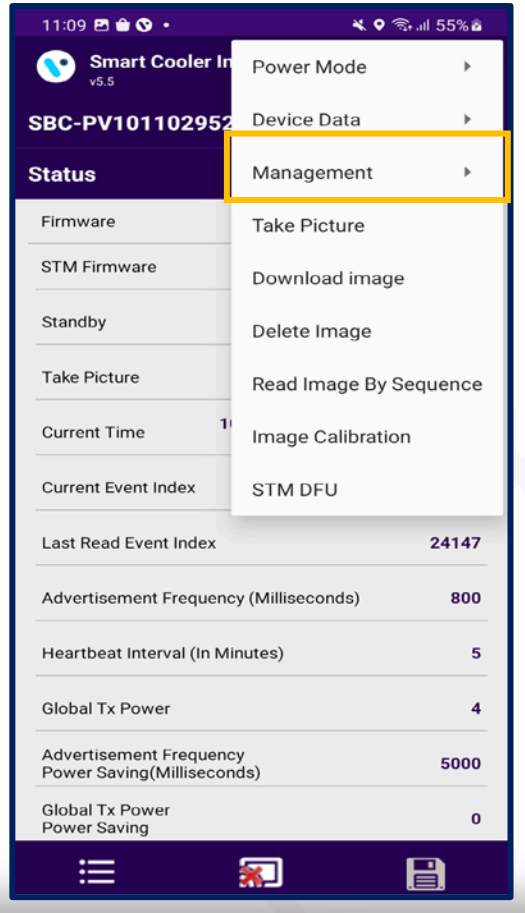
How to calibrate Magnet & Device for Door Close?

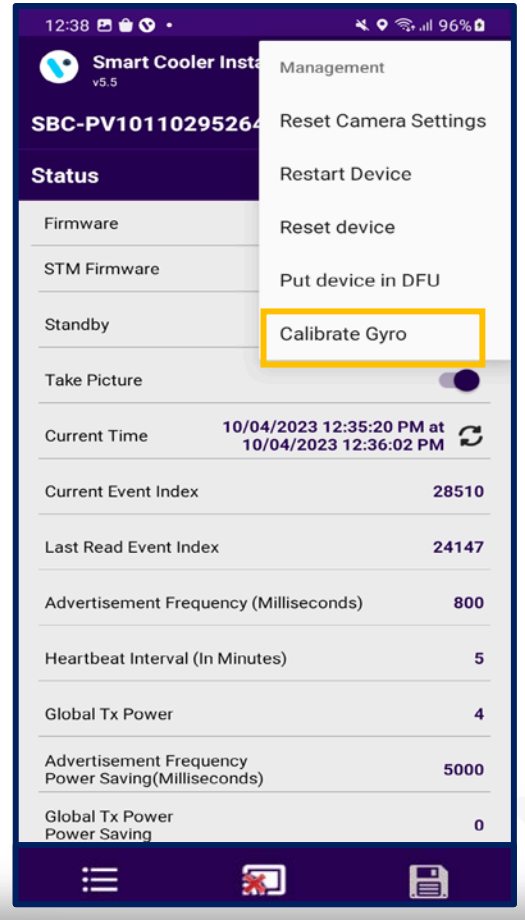
Once the Smart Vision device and magnet are installed properly. Need to Calibrate the device for Door closing.

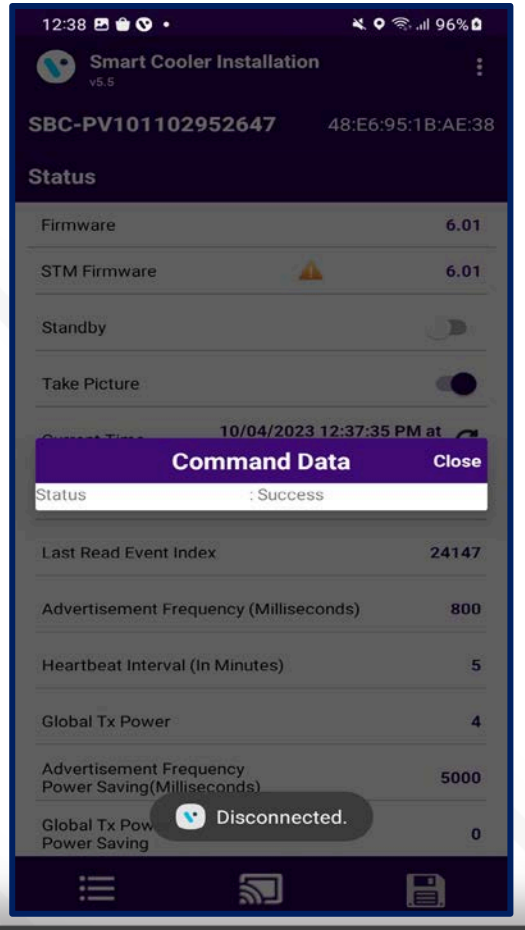
After Successfully calibrate Gyro, wait for 30 Sec as the calibration process is ongoing.

Check the Door status in an advertisement – It should show as Door Close.









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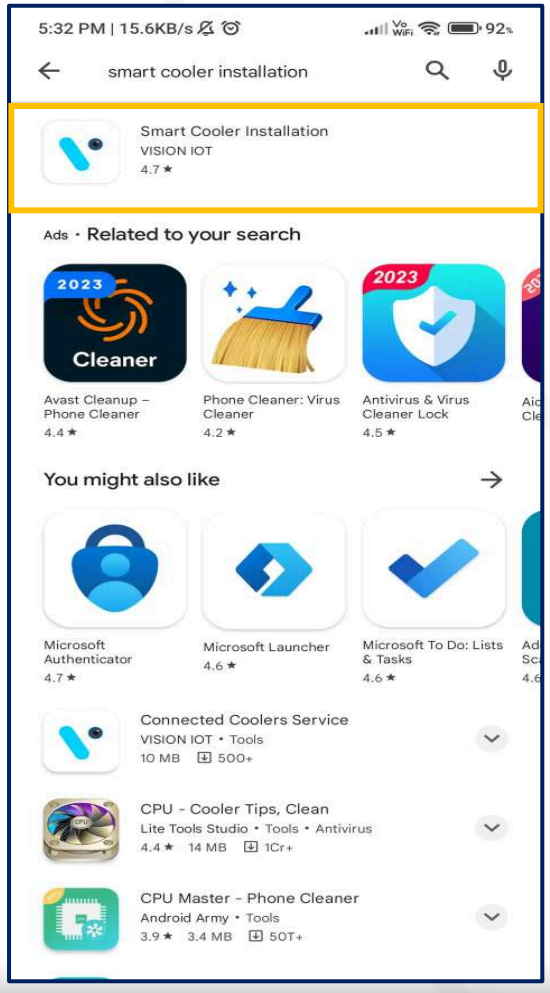
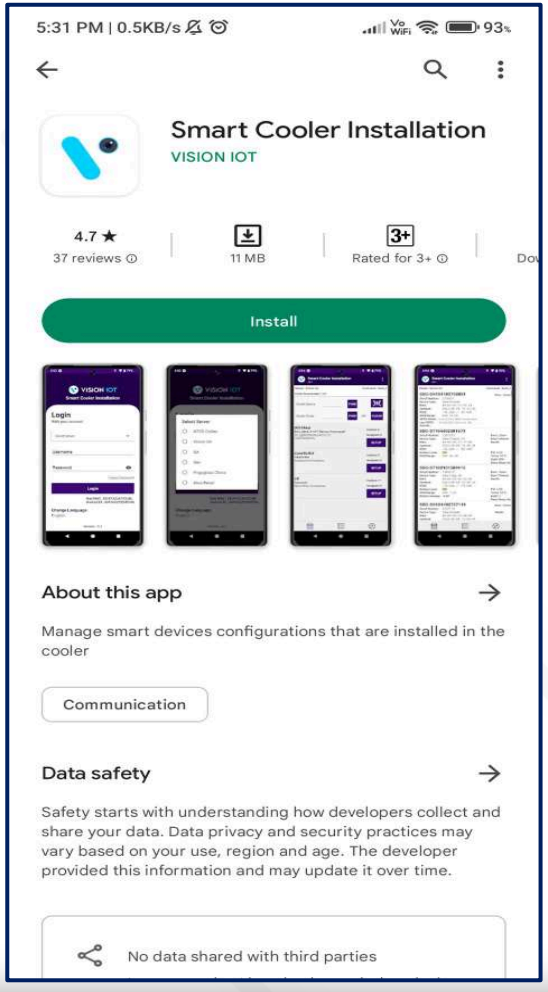
Application Installation

Search the VISION IOT SmartCooler application in the Google Play store and Install it.





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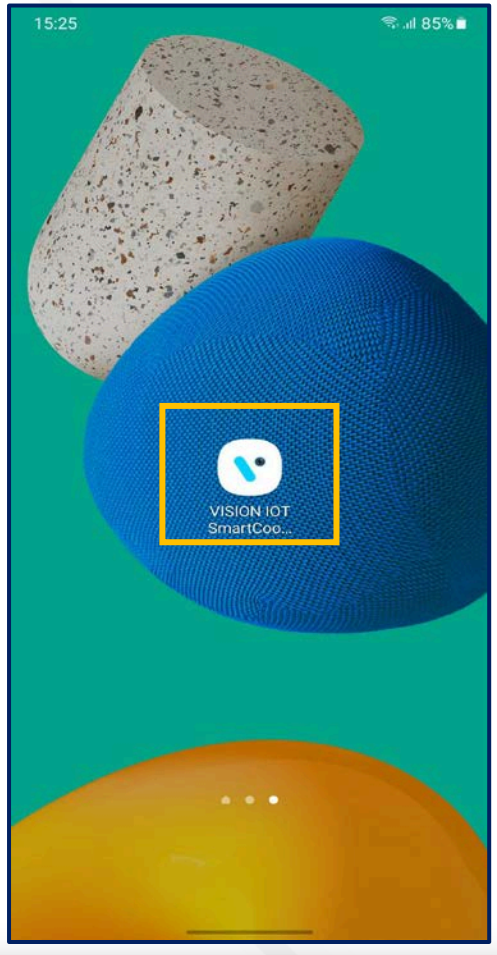
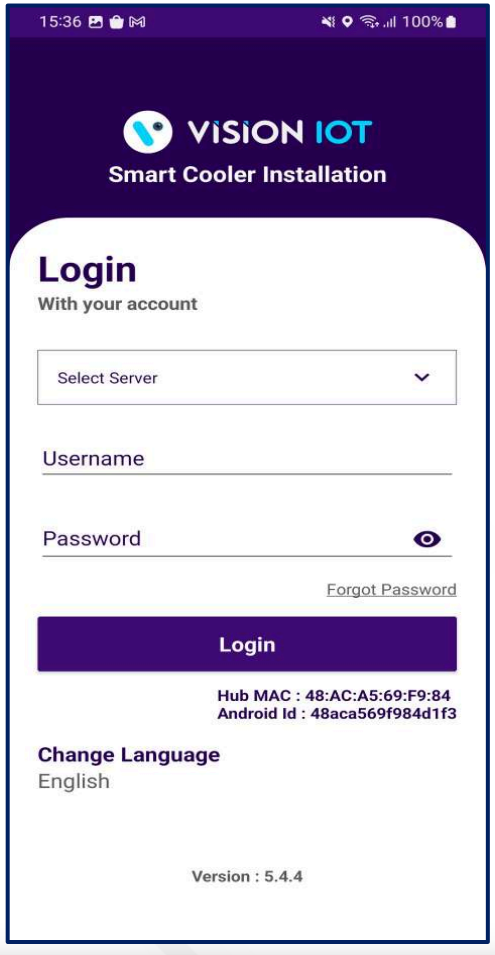
Smart Vision Association

The Vision IOT Installation application is compatible only with Smartphones having Android v7.0 and above.





1. Open VISION IOT SmartCooler application.

2. Log in using the credentials provided by your administrator – after successful login, the user will be redirected to the Outlet list view screen.

Note: Please ensure Bluetooth on the device is ON. The application will communicate with the device using Bluetooth.

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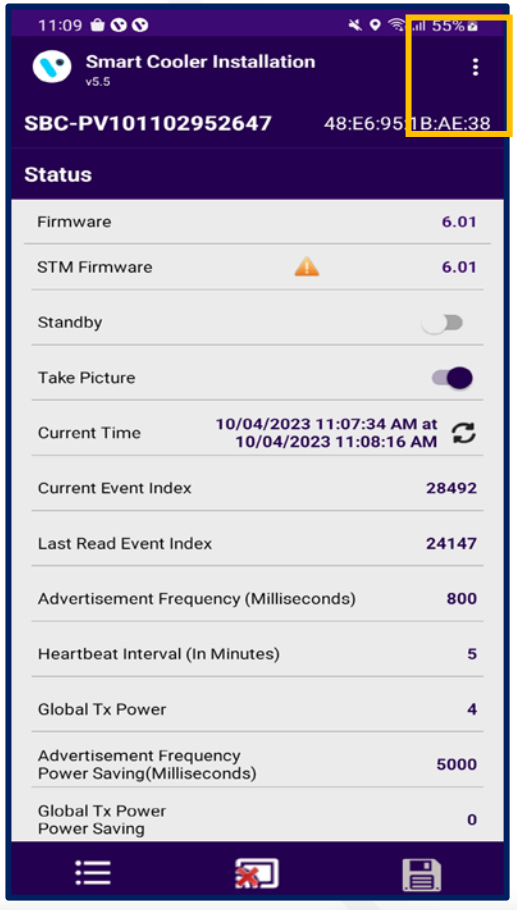
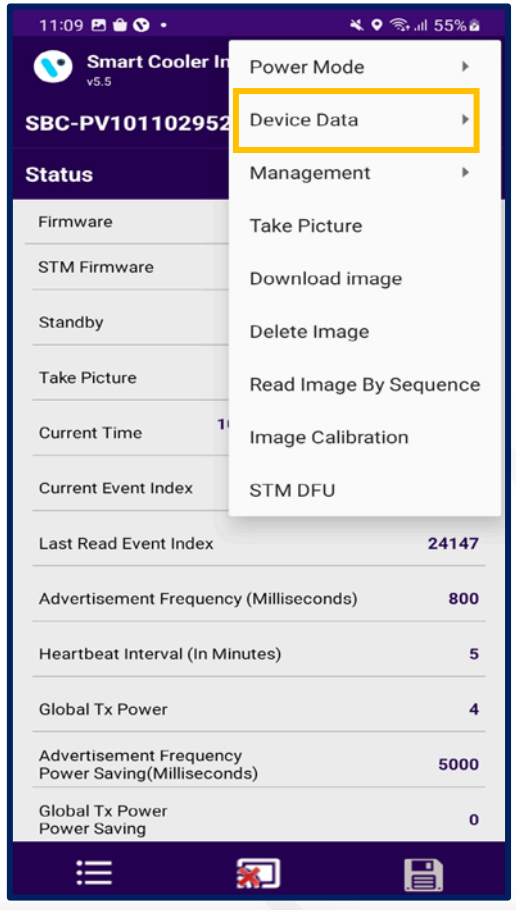
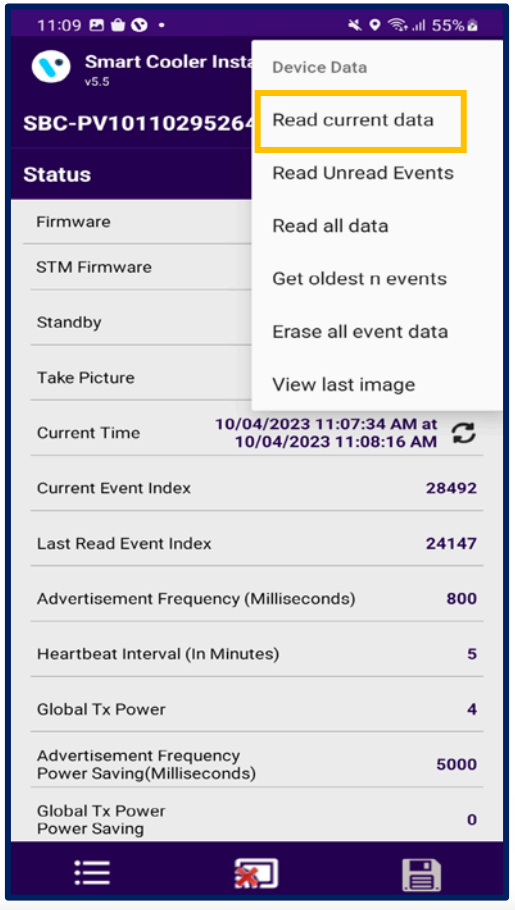
Device Sensor (Door, Light, Motion, Temperature)

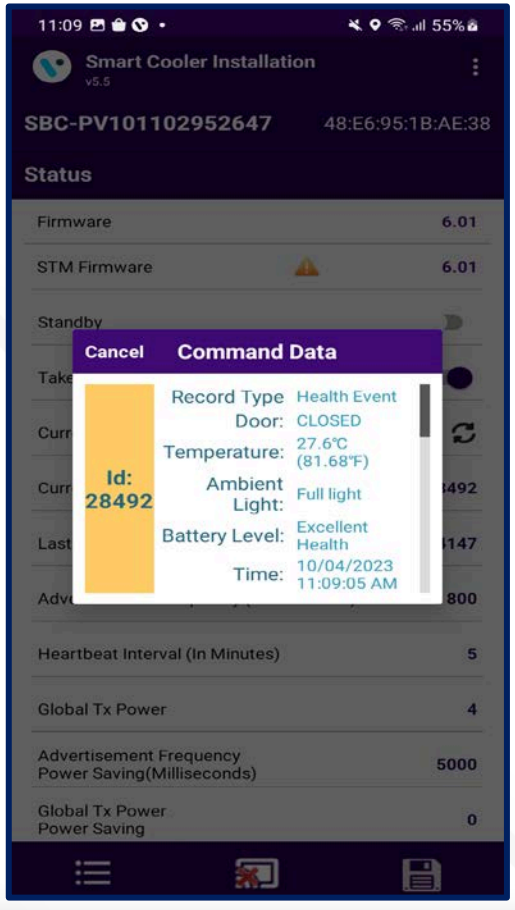
After connection, go to the hamburger menu > Tap on “Device data”> then Tap “Read current data”.

Users can see real-time sensor data, Door status, current temperature, and current light condition with current date and time.









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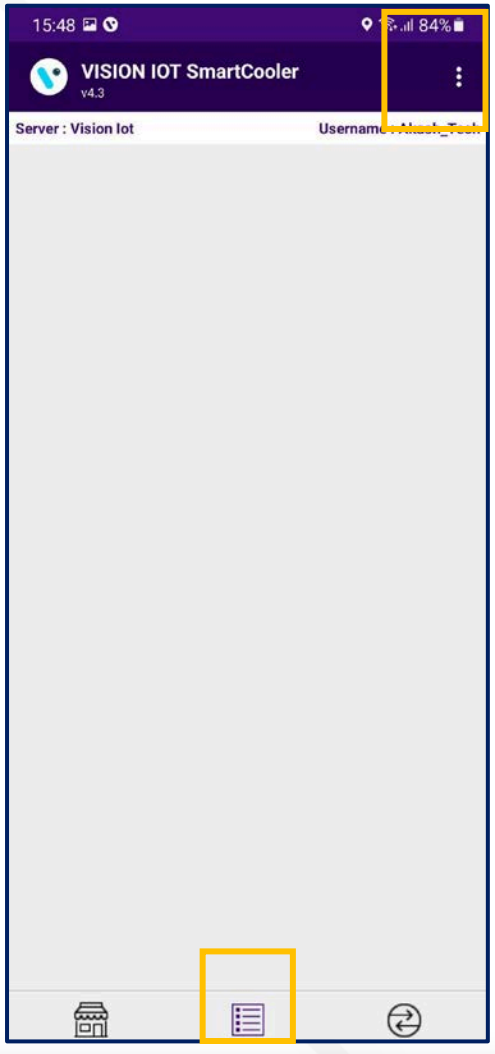
Verify Smart Vision Door Sensor



1. After the Association Process of the Smart Vision and magnet, the door open and close must be validated to make sure that the magnet is placed properly. Follow the steps mentioned below to verify.

2. Tap on the Configuration Tab and scan for any devices in proximity.

3. The application lists all the SmartVision available in the proximity.

4. Check the Door flag for the device matching our Smart Vision serial number,

   Door Status: Close, If the Door is Closed.
   Door Status: Open, If the Door is Open.

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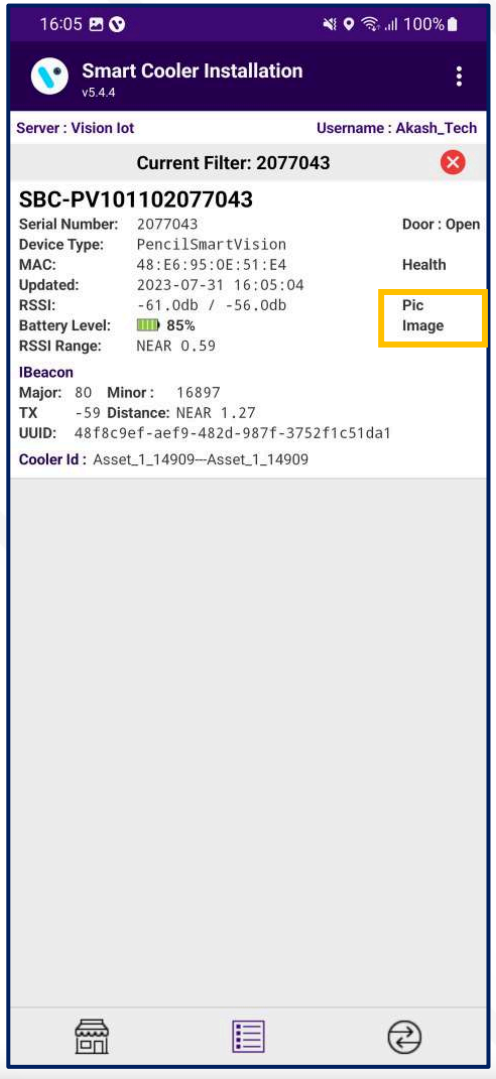
Verify Smart Vision Image on Door Open / Close

1. After the physical installing of the Smart Vision and magnet, the door open and close must be validated to make sure that the magnet is placed properly.

2. Take picture in the device using Door open/close event, once image data are available in the device then “Pic image” flag showing in the advertisement as below image.

   - If only showing “Pic” flag in the advertainment that means no image data are available in the device.



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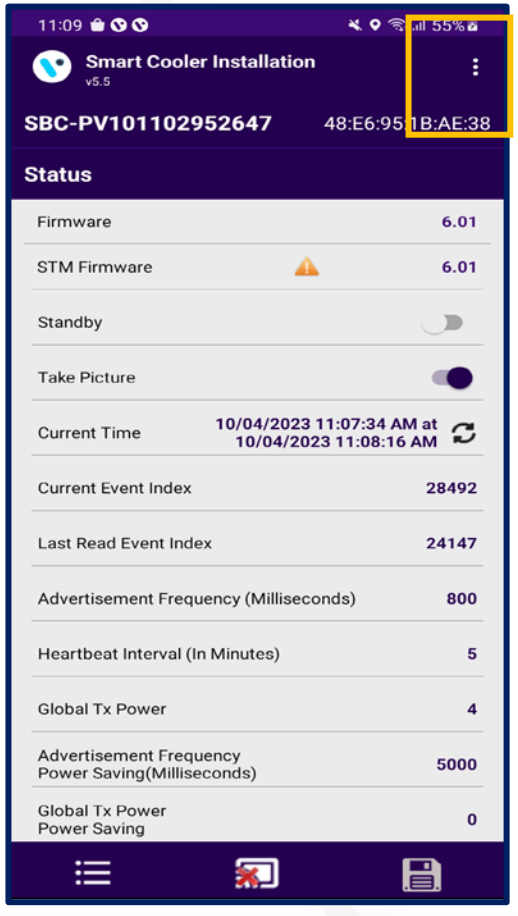
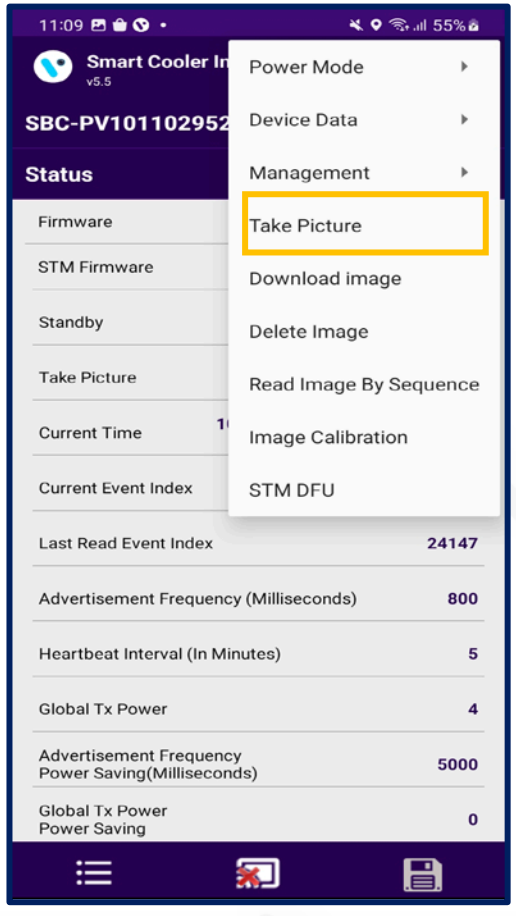
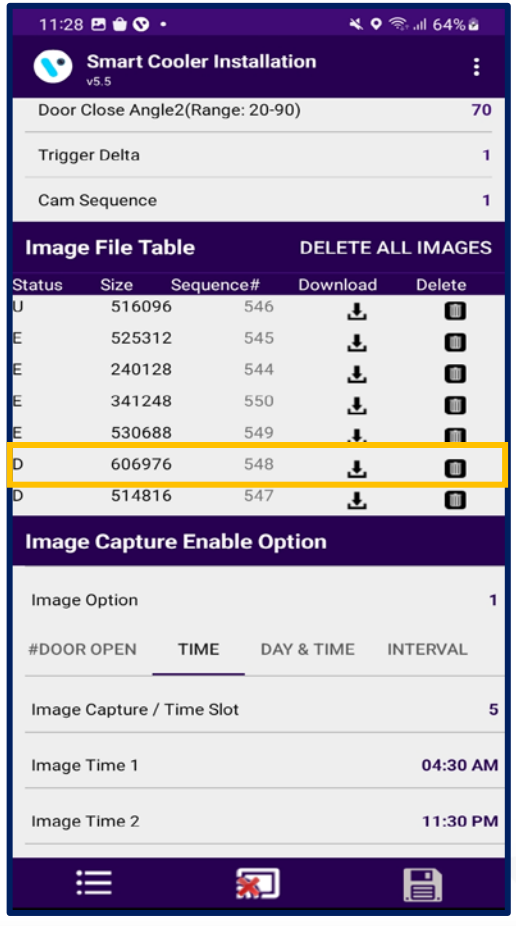
Verify SmartVision Image by Take Picture App Command

Tap on the hamburger menu > Tap on “Take Picture”. The device will disconnect after successful image capture. Connect the device and check the Image File table as shown below snaps for the latest image.







Various Image Status in Image Table:

D – Latest Image
U – Uploaded Image
E – Deleted Image

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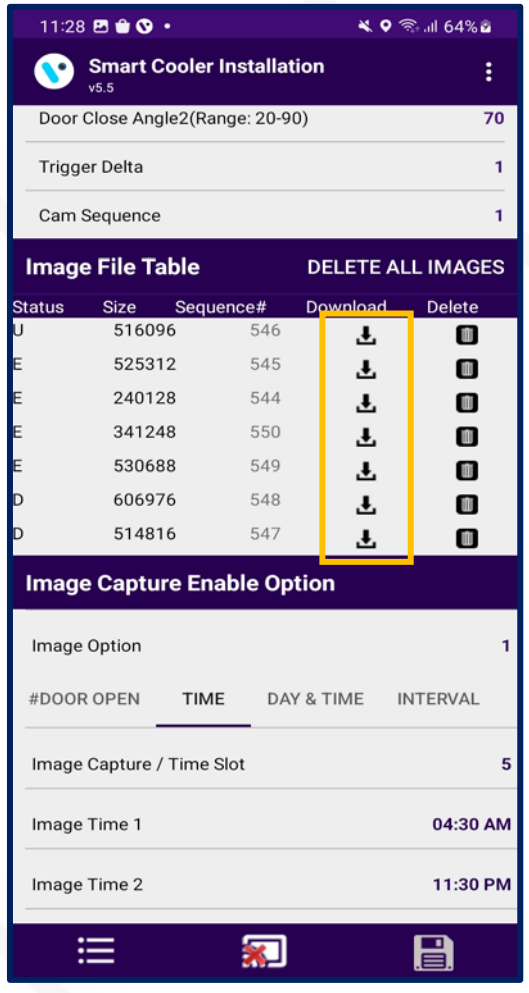
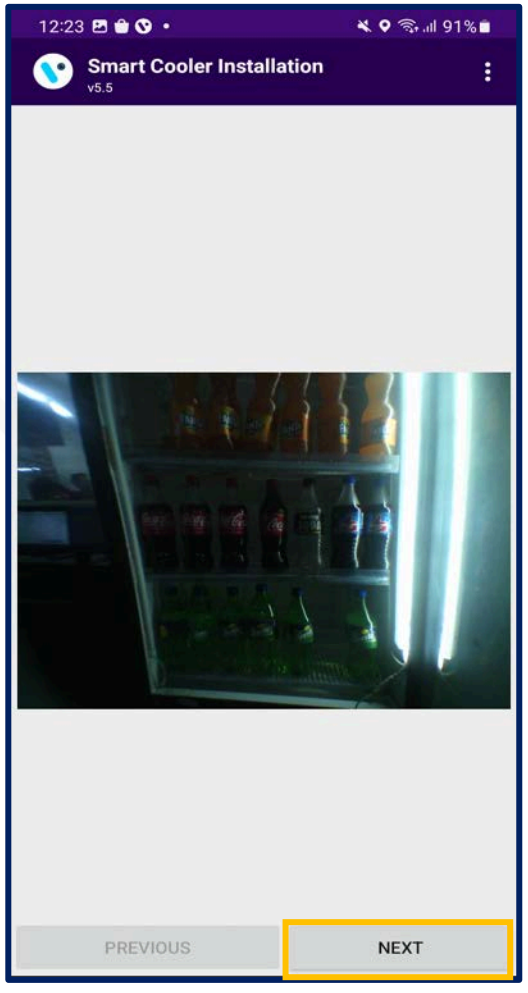
Read Captured Image in Image table

Tap on the Download symbol shown in the Image file.





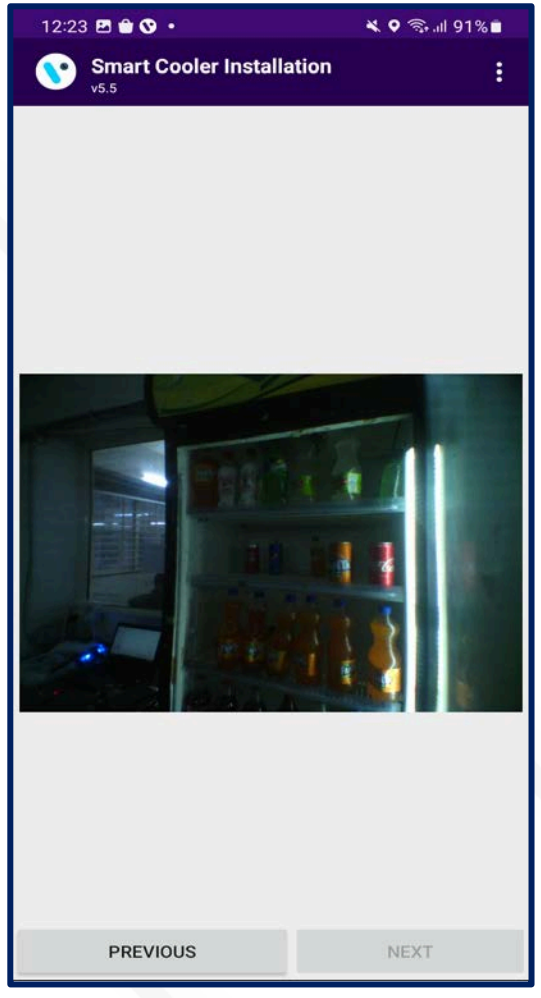


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Image Capture Mode - Logic

Image capture mode	Input Value		Logic / Remarks
#Door Open	Door Open Count	Value for "door open : 1 to 255"	Image will capture as per door open count during Door open event
Time	Image Capture / Time Slot	Value "1 to 255"	Image will capture on door open as per set time slot When Image capture time due device will set next day's time
	Image Time 1	Time 1 "HH:MM"	
	Image Time 2	Time 2 "HH:MM"	
	Image Time 3	Time 3 "HH:MM"	
Day & Time	Image Capture / Time Slot	Value "1 to 255"	Image will capture on Door Open as per set day and time When Image capture time due device will set next week's date & time
	Image Time 1	Set day and time 1	
	Image Time 2	Set day and time 2	
	Image Time 3	Set day and time 3	
Interval	Image Capture Interval	Time in (Sec) : 300 to 604800	Image will capture on Door Open as per set Interval
	Image capture Count	Value "2 to 255"	

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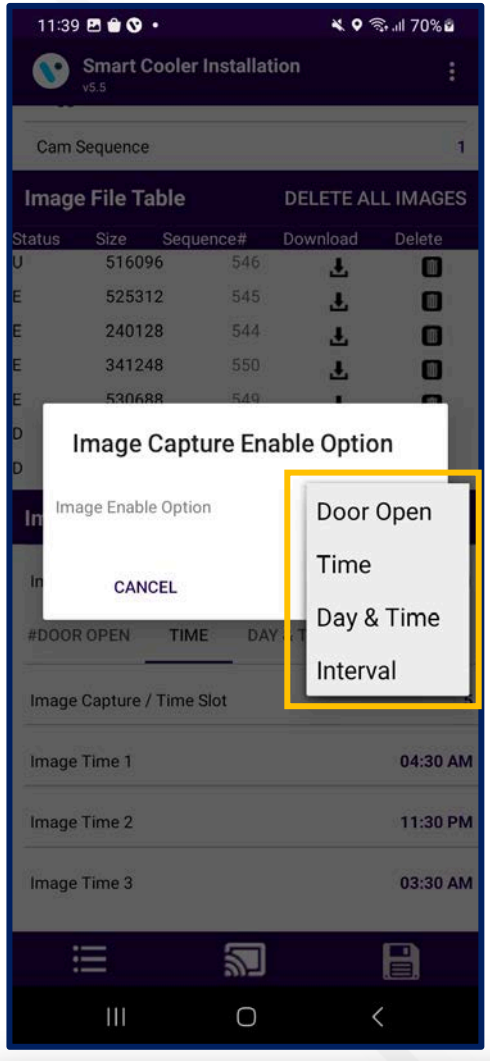
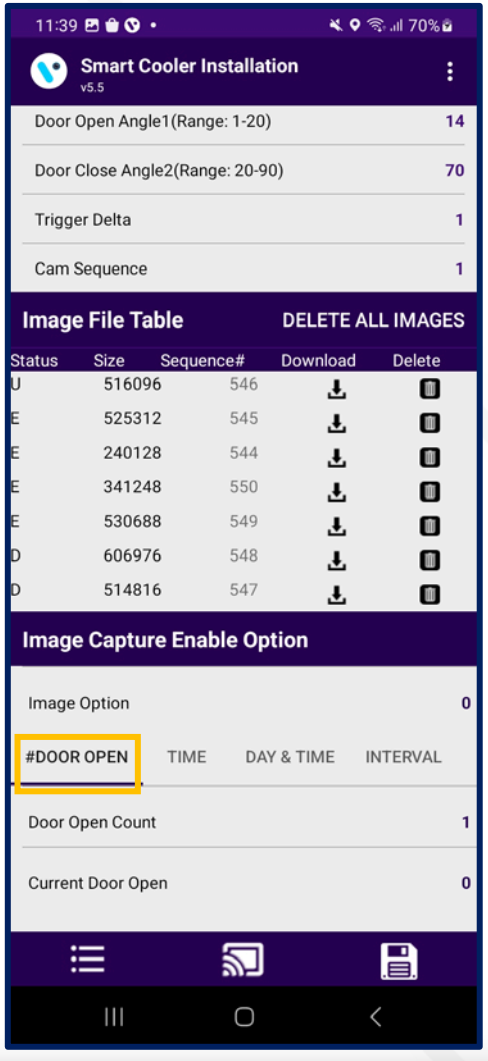
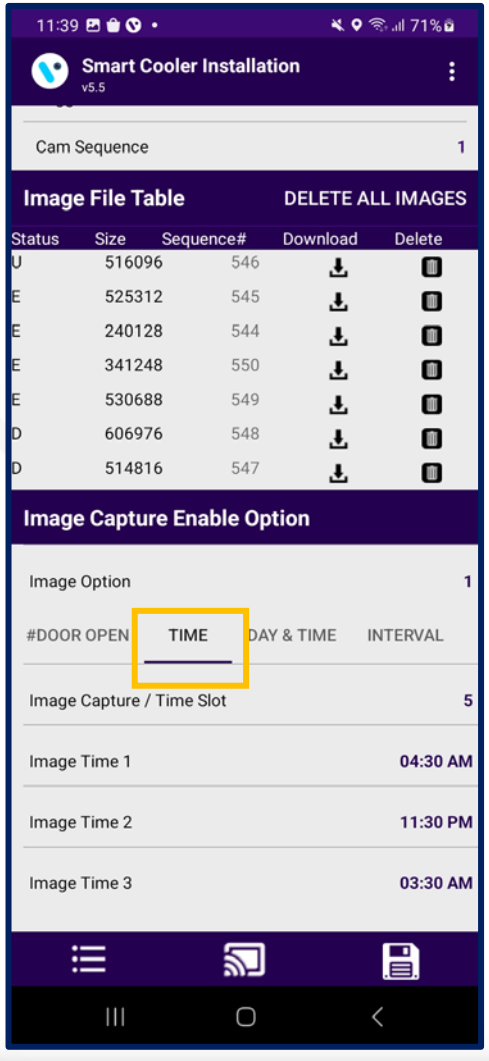
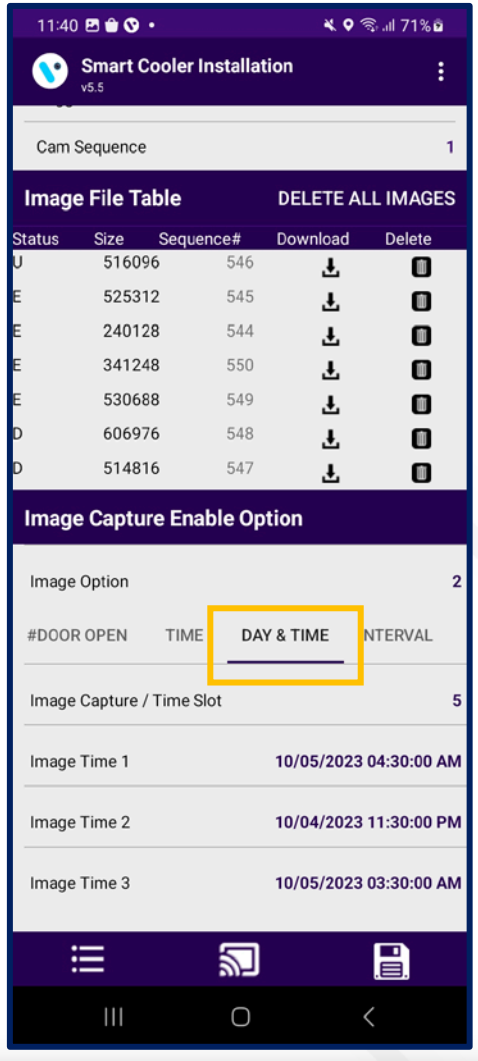
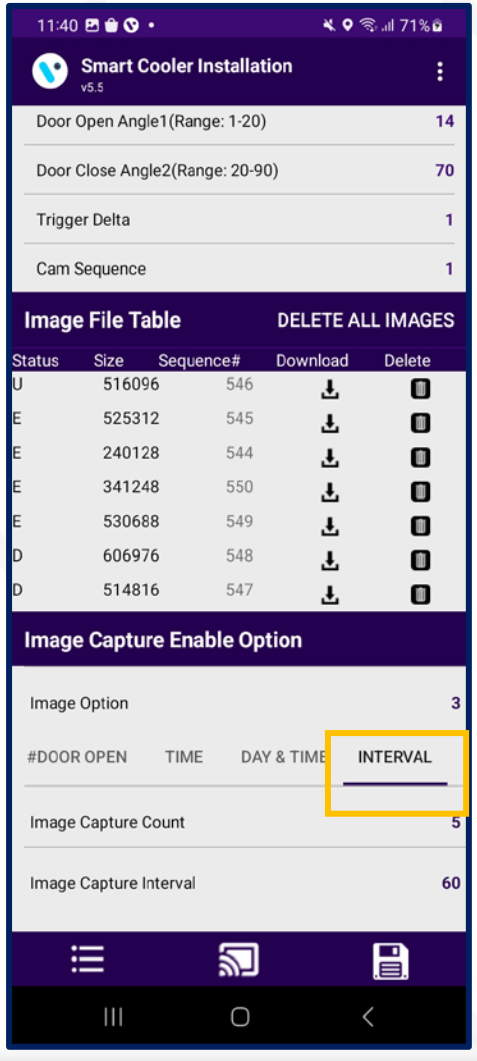
Image Capture Mode:











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- **FCC Regulatory Compliance**
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two 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.
- changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 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.

- **RF Exposure Compliance**
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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Thank You!