

## Online Manual

### 1. How to Start Ray@Home

#### 1) How to Download Ray@Home App

Android App: Search "Ray@Home" and download the APP from Google's Play Store.

iOS App: Search "Ray@Home" and download the APP from App Store.

#### 2) Information on Supported Devices

Devices with Android 4.0 or above are able to run Ray@Home.

Devices with iOS 11 or above are able to run Ray@Home.

#### 3) How to Sign up and Log in

Open Ray@Home app and then click 'Sign-Up' at the bottom of the log-in screen to complete the sign-up process before running Ray@Home.

The sign-up can be done via e-mail, Facebook and/or KaKao Talk accounts.

After properly completing the log-in process, the main screen will appear, to register the Hub.

#### 4) How to Set up a Home Router

Check the Wi-Fi name and password of the router to be connected to the network of Ray@Home.

A wired or wireless router is needed to access the Internet. However, the router should be purchased separately.

Ray@Home is able to work only when connected to a 2.4 GHz Wi-Fi network.

Wired Router

Wireless Router

### 2. How to Register Devices

#### 1) How to Register and Remove Sensors (Common Matters)

How to Register Sensors

1. Click [Main Screen>Sensor Icon] on the app.

※ Ray@Home sensors are able to be registered only after completely registering the hub for the app.

[Sensor Registration Screen]

2. Press the registration button on the back of the Smart Hub one time. With the sound of 'Beep', the status LED blinks in blue. (=Sensor Registration Mode)

Registration/Reset Button

[Smart Hub Registration/Reset Button]

[Smart Hub LED Status]

3. Put batteries in each of the sensors of Ray@Home to power them on.

※ When registering Ray@Home sensors, proper procedures must be always followed by first changing to Smart Hub's Sensor Registration Mode and then putting batteries in Ray@Home sensors. (Otherwise, errors in the sensor registration may occur.)

4. The sound of 'pee-ri-ri-ri' coming from Smart Hub within around 10 seconds indicates that the registration has been completed.

5. If the sensor fails to be registered within five minutes, the registration mode is closed and returns to the initial operation mode.

(When successfully registering one sensor, the hub's sensor registration mode is automatically extended for another five minutes.)

6. When pressing the registration button on the back one time again while still in the registration mode, the hub's sensor registration is completed with the sound of 'pee-ri-ri'. And, the status LED is switched on again in blue.

[Smart Hub Registration/Reset Button]

[Smart Hub LED Status]

7. Registered sensors can be managed by using Ray@Home app.

※ 32 sensors can be registered for one hub. (As for the siren light, up to three can be registered.)

※ The maximum number of Hubs that can be registered for one user account is "four"

[List of Registered Sensors]

#### How to Delete Registered Sensors

1. Click [Main Screen>Sensor Icon] on the app.

[List of Registered Sensors]

2. Press the sensor that is to be deleted. [Detailed View] screen will show up.

[Sensor Deletion (1)]

3. Press [Trash Can Image] button on the upper side of the screen.

※ The hub must stay connected to the network.

4. When completing the deletion of the sensor, the sound of 'pee-ri-ri-ri' comes out of the hub within one minute.

[Sensor Deletion (2)]

5. After deleting the sensor, the registration/reset button on the back side of the hub must be pressed to exit "Sensor Registration Mode".

Registration/Reset Button

[Smart Hub Registration/Reset button]

[Smart Hub LED Status]

## 2) SOS Button

1. Click [Main Screen>Sensor Icon] on the app.

※ Ray@Home sensors are able to be registered only after completely registering the hub for the app.

[Sensor Registration Screen]

2. Press the registration button on the back of Smart Hub one time. With the sound of 'Beep', the status LED blinks in blue. (=Sensor Registration Mode)

[Smart Hub Registration/Reset Button]

[Smart Hub LED Status]

3. Loosen the screws set on the back of the SOS Button and take out the paper (interleaving paper) in-between the batteries to power it on.

※ In case of the SOS Button, the instrument batteries are included.

※ When registering Ray@Home sensors, proper procedures must always be followed by first changing to Smart Hub's Sensor Registration Mode and then putting batteries in Ray@Home sensors for normal sensor registrations. (Otherwise, errors in the sensor registration may occur.)

[Outside of the SOS Button]

[Inside of the SOS Button]

4. The sound of 'pee-ri-ri-ri' coming from Smart Hub within around 10 seconds indicates that the registration has been completed.

5. If the sensor fails to be registered within five minutes, the registration mode is closed and returns to the initial operation mode.

(When successfully registering one sensor, the hub's sensor registration mode is automatically extended for another five minutes.)

6. When pressing the registration button on the back one time again while still in the registration mode, the hub's sensor registration is completed with the sound of 'pee-ri-ri'. And, the status LED is switched on again in blue.

[Smart Hub Registration/Reset Button]

[Smart Hub LED Status]

7. Registered sensors can be managed by using Ray@Home app.

※ Up to 32 sensors can be registered for one hub. (As for the siren light, up to three can be registered.)

※ The maximum number of Hubs that can be registered for one user account is "four."

[List of Registered Sensors]

### 3. Recommended Installation Places

After installing the devices in recommended places, check if they are properly operating through "4- 3) Tests before Using Ray@Home." The communication range between the sensors and the hub varies depending on structural features of the installation places, the Internet environment, etc.

※ Check if communications are accessible before deciding on installation places.

#### 1) General Matters to Keep in Mind When Installing the Products

1. They are able to be installed only indoors. (However, Ray@CAM, having IP56 rating, can be installed both indoors and outdoors.)
2. They should be installed at least two meters away from home appliances, OA devices, industrial devices, wired % wireless communication devices, office devices, etc., that create a lot of strong electric fields and strong magnetic field noises.
3. It is not recommended to install them in places with high humidity and severe temperature differences
4. They should be installed in places without shielding materials that block radio signals around.
5. Installing them in places where other items may easily come into contact with the products should be avoided.

#### 6. Environmental Conditions

Category/ Details

Usage Environment Temperature /-10 ~ 50°C

Usage Environment Humidity / 30~90% RH

Preservation Environment Temperature / -20~60°C

Preservation Environment Humidity / 30~90% RH

#### 2) SOS Button

1. Press the SOS button for more than three seconds to notify the hub-sharing users of an "emergency situation." When pressing the SOS button, "the siren lights will go off and a pop-up message of [SOS Occurrence] will show up on the app".

[SOS Occurrence > User's App Screen]

2. It is recommended to install the device in places such as bedrooms, kitchens, living rooms and others where the SOS button is needed.

※ The SOS button must be located in places where the button is not randomly and arbitrarily pressed by external factors and where the button can be immediately pressed upon facing an emergency situation.

3. It is advised to install the device in places where it is able to communicate with the hub after conducting [Tests before Using the SOS Button].

#### 4. What to Keep in Mind when Using Ray@Home

##### 1) Matters to Keep in Mind when Using Ray@Home

Do not disassemble the hub at your own discretion even if it malfunctions.

Do not install the device in places that intensely shake or are around magnets.

Do not install the device in places with high humidity and direct sunlight.

The device is set to the domestic rated voltage.

Sometimes, there might some cracks on video images when watching them under the user's smart phone Wi-Fi and LTE environment.

In that case, the problem can be addressed by deactivating the mobile data connection and then activating it again from the smartphone setting.

##### **FCC COMPLIANCE STATEMENT:**

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.

##### **INFORMATION TO USER:**

This equipment has been tested and found to comply with the limits of 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, user 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:

1. Reorient / Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio / TV technician for help.

**CAUTION:** The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.