Essence Security

MyShield Product Family

User Guide

July 2025

Thank you for choosing MyShield, the world's first standalone, smoke-generating security solution for intruder detection and discouragement. Please take the time to read and understand this guide to make sure you achieve the maximum performance from your MyShield. If you have any questions, please call your supplier.

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1. Overview

MyShield is a remotely triggered, smoke-generating security device which provides detection, verification and intervention functionality. MyShield can be monitored and operated either by a professional monitoring center, privately through a smartphone app, or both simultaneously.

An armed MyShield which detects an intruder will:

- Play a voice message: “Protected area – leave immediately”
- Send notification to the configured monitoring center and smartphone app

Upon receipt of a notification, the monitoring center or mobile app user can evaluate the situation by viewing real-time video recording from the MyShield HD camera and deploy smoke if deemed necessary. The proprietary smoke diffuser will fill the room with harmless but disorienting smoke within 30 seconds.

MyShield can be implemented as a standalone device or integrated into an existing security system. MyShield uses bi-directional cellular communication and is battery powered, making it independent of the local power supply and communication infrastructure.

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1.1. MyShield Main Features

- Intrusion detection using PIR (Passive Infrared) Motion Detection
- Intrusion verification through transmitted HD images
- Automated voice messages played through MyShield's internal speaker
- MyShield's smoke is disorienting, harmless, and quickly saturates a room
- Off grid battery powered
- 2-way cellular connectivity - Supports all LTE CAT-M networks worldwide (pending network availability)
- Pet detection (option) - MyShield has an optional feature allowing it to ignore motion detection of pets up to 40kg
- 3 types of tamper alerts:
  - Removal from wall mount (accelerometer detection)
  - Canister removal
  - Input trigger wire cut (upcoming feature)
- Multiple user - It is possible for multiple users to manage the same MyShield
- Multi MyShield devices - Multiple MyShield devices can be configured for a single user or multiple users.
- Multiple sites - Several MyShield devices installed at different locations can be managed by a single user or multiple users.
- Force arm - MyShield can be armed even after tamper detection
- Delayed arming - MyShield allows users to configure a delay between the arming command and system arming.
- Extendable wake time after intrusion detection - Extend the device control time (sustain the option to deploy smoke) after the intrusion detection 5-minute timeframe.
- Password policy - User passwords are subject to a policy criterion.

1.2. Intrusion cycle step by step:

1. PIR detection
2. Video recording
3. Video upload
4. Vocal warning to leave the area is played through the MyShield loudspeaker
5. Smoke deployment + prerecorded audio clip is played through the MyShield loudspeaker.
6. Image recording - smoke deployment verification
7. Image upload

2. Usage and Safety Instructions

Below are the terms of use and safety instructions for MyShield and its smoke canisters:

1. A 10x15 cm obscuration warning sticker has been included in the MyShield kit. A sign indicating the presence of a vision obstruction device should be placed on the protected premises in accordance with the following graphic and dimensions:

Height of signs and max viewing distance					
Maximum viewing distance		Minimum symbol height		Recommended letter height supplementary text signs	
m	ft.	mm	in.	mm	in.
7	23	60	2.36	5	0.20
9	30	80	3.15	7	0.28
14	46	120	4.72	10	0.39
21	69	180	7.09	15	0.59
28	92	240	9.45	20	0.79

2. In addition to the sign requirement above, the canister MSDS (material safety data sheet) and these safety instructions must be provided to the end customer and be kept at the installation site to be made available to first responders as needed.
3. The device includes a canister which is a pyrotechnic article: a smoke generator with an anti-theft function. The contents of the canister are isolated and protected from direct contact. The smoke produced during the intended use is not classified as dangerous to human health; however, it may cause skin, eye, respiratory, and throat irritation.
4. The canister should be used only with MyShield and only in accordance with its intended use.
5. The device should be installed, maintained, and activated only by authorized personnel.
6. The device should be installed at least one meter away from any flammable objects, such as but not limited to, furniture, textiles, carpets, drawings, carton objects, and any flammable substance such as chemicals, oils, and/or fuels.

NOTE: By utilizing this device, the end user agrees to follow all relevant local laws and safety regulations concerning pyrotechnic smoke devices.

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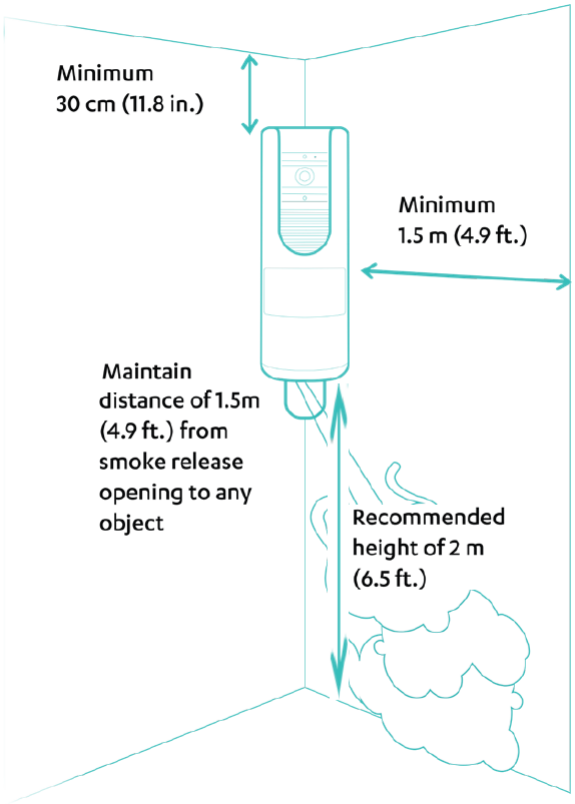
Functional and Safety Installation Distances



7. The device must not be covered or blocked at any time after installation.
8. Do not block exit and/or escape pathways at the installation site.
9. Smoke activation should be performed by a trained professional only after verifying a real trespassing event via video, photo, and/or voice, and making sure that no unrelated bystanders are in the premises.
10. The device canister should be replaced periodically to ensure its maximum effectiveness.
11. The canister should be replaced only by authorized personnel.
12. It is recommended that the device be installed in areas with windows or other accesses that allow proper ventilation after activation and smoke generation. If the property is not ventilated within a maximum of two hours of smoke generation, it is recommended to clean the area where smoke was generated. The residue which might be left as the smoke settles is easily removed with water.
13. It is recommended not to install the device in areas intended for the sale, breeding, or care of live animals, or in rooms intended for use by minors or people with respiratory disorders.
14. Do not eat, handle, market, or feed animals any food that has been exposed to the smoke or smoke residue.
15. While the device is generating smoke, do not touch or stand in front of it (at a distance of less than two meters) as it may cause burns.

16. Upon activation, the smoke generated by the device will trigger smoke detectors and fire alarms, and the customer or their representative is responsible for notifying the fire department and any other relevant first responder of the presence of the device on site, and of its activation. Essence shall not be liable for any cost or liability rising from the triggering of such a fire alarm and/or smoke alarm, or for the dispatching of first responders.
17. Once the device is activated and smoke is generated, leave the area immediately. Do not exceed 15 minutes of smoke exposure. Ventilate the area as soon as possible. Return only when the smoke is has fully dissipated.
18. After smoke generation, wait at least 30 minutes before handling the device and/or canister to allow for cooling and to avoid burns.
19. Warnings:

- Fire or projection hazard.
- Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
- NO SMOKING.
- Keep only in original packaging.
- In case of fire: Explosion Risk. Evacuate area. DO NOT fight fire when fire reaches explosives (canisters).
- Dispose of canisters and/or their contents in accordance with all local regulations.
- In case of exposure to smoke produced during the intended use, no specific measures are necessary. In case of unexpected symptoms or effects, contact a doctor.
- It is absolutely forbidden to attempt to open and/or tamper with and/or modify the MyShield device, the canister, or any part of either of these in any way.
- Canisters must be intact without any damage or impacts. Damaged canisters should not be installed or used. Dispose of damaged canisters and/or their contents in accordance with all local regulations.
- Do not remove the anti-humidity seal protecting the smoke outlet at the bottom of the canister.
- Do not block, cover, or plug the smoke outlet at the bottom of the canister
- Do not expose the device and/or the canister to high moisture, or wet environments. Do not introduce water and/or liquids to the device and/or the canister
- Always use original and certified spare parts from the original manufacturers.

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3. MyShield Installation

Setting up a new MyShield will require both physical installation and setup of the Smart Security app.

3.1. Installing the Essence Smart Security App

If the MyShield app was provided by the reseller, follow the instructions provided.

If the MyShield app was not provided by the reseller:

1. Search for Essence Smart Security on Google Play or App Store.
2. Install the app and follow the onscreen instructions to create a user.

3.2. Installing MyShield

For further information on installing the MyShield device, and working with the mobile app, see the *MyShield Installation Guide*.

4. Using the Smart Security App

MyShield can always be operated using the MyShield app. In addition to the app, the device can be managed by a monitoring center. This section will explain the MyShield functions for the app End-User.

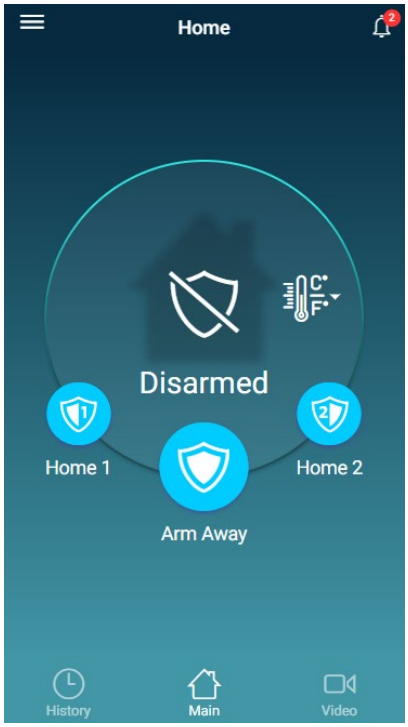
4.1. Arming and Disarming

MyShield detects intrusions only while armed. Use the icons on the home screen of the MyShield app to arm or disarm:

Tap on to Arm MyShield (tap on either the Home 1 or Home 2 icons).

Tap on to Disarm MyShield.

The **Home** screen will display the current status of the device(s).



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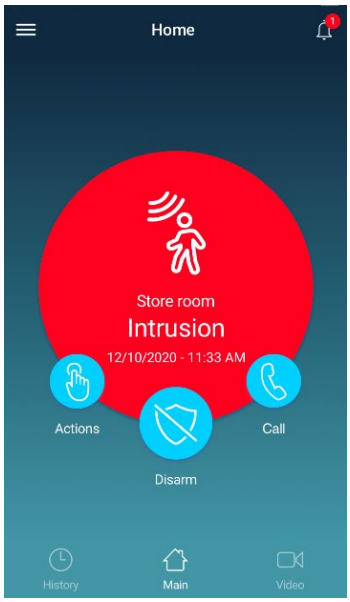
4.2. Responding to an Intrusion Notification

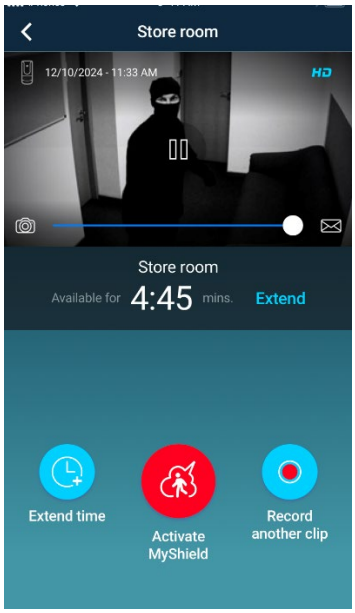
When MyShield detects an intrusion, a notification will be sent to the assigned MyShield app users. The app will provide a recorded real-time video clip from MyShield and allow deployment of smoke as desired.

To respond to an intrusion notification:

1. Tap the intrusion notification. The intrusion verification screen will appear.



2. Tap **Actions** to select the reporting device from the pop-up menu to receive real-time video from MyShield.



3. After viewing the video, the following actions will be available:
   - Tap **Activate MyShield** to deploy smoke.
     After deploying smoke, take the actions detailed in section 4.3 below.
   - Tap **Record another clip** to view an additional video.
   - Tap **Extend time** to extend the MyShield control time (sustain the option to deploy smoke).
   - To dismiss the intrusion alert without deploying smoke, tap **Actions** on the Intrusion Verification screen and select **Dismiss** from the pop-up menu.

4.3. Action after Smoke Deployment

WARNING! **The canister will be hot after deploying smoke. Do not touch it for at least 30 minutes after deployment.**

Follow the instructions in the *Usage and Safety Instructions* section above.

After deploying smoke, the canister and batteries must be replaced. Please follow the detailed instructions in section: **5** *Replacing the canister* → **5.1** *Smoke has been deployed*

4.4. Responding to Tamper Alerts

If MyShield detects a tamper event, it will send a tamper alert notification to the configured smartphone app users and monitoring station. There are 3 types of tamper alert:

- Unmount from wall—sent if MyShield detects it was removed from the wall mount
- Canister—sent if MyShield detects removal of the canister
- Wired input cut— if MyShield detects disconnection from the wired input.

Tamper alerts can be responded to in the same manner as intrusion notifications, by viewing real-time video and deploying smoke if desired: see sections.

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4.5. Unmounting after a Tamper Event

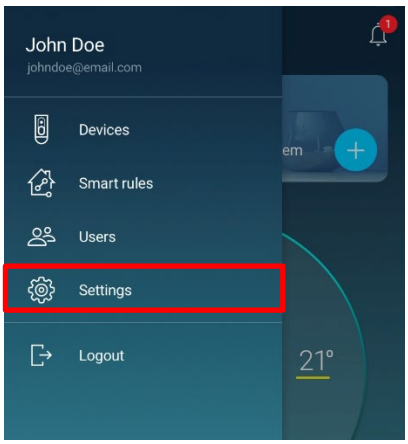
If MyShield is removed from its mount a tamper event will be detected and the device will be blocked from deploying smoke for 30 seconds. During this period, tapping on **Activate MyShield** in the MyShield app in order to deploy smoke will result in a "Deploy is blocked for 30 seconds due to a tamper event" message.

During the 30-second period, the user can record an additional video clip, extend the MyShield control time (sustain the option to deploy smoke), and select a different device.

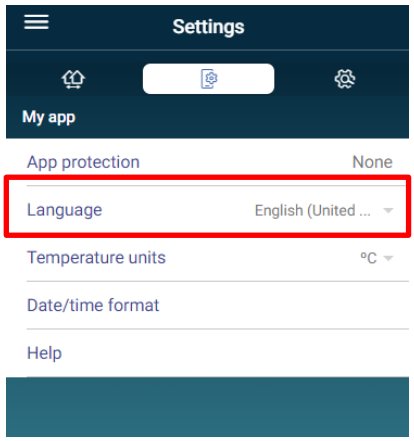
To resume smoke deployment, tap **Activate MyShield** again after 30 seconds have elapsed.

4.6. Setting the Language of the App

4. Open the App menu.
5. Tap **Settings**.



6. Tap **Language** and select the desired language from the drop-down menu.



NOTE: The Smart Security app language settings will only change the language of the app and not change the language of voice announcements from MyShield.

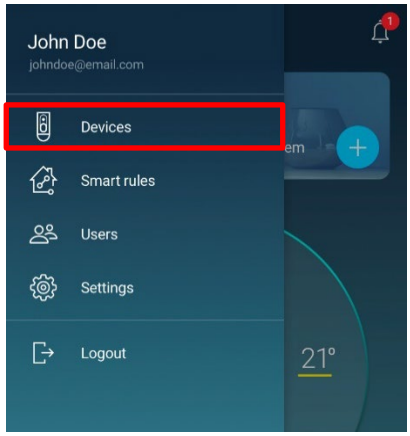
4.7. Changing Voice Announcement Settings for MyShield

By default, MyShield is set to make the following voice announcements:

Condition	Announcement	Repetition
Motion detected while MyShield is armed	"Protected area – leave immediately"	Three times with two second intervals between announcements
Deploying smoke	"Deploying smoke – clear the area"	Three times with two second intervals between announcements

It is possible to change which voice announcements MyShield plays and the volume:

1. In the App menu, tap **Devices**.



2. Select a MyShield.

The relevant MyShield's status and settings screen will open.

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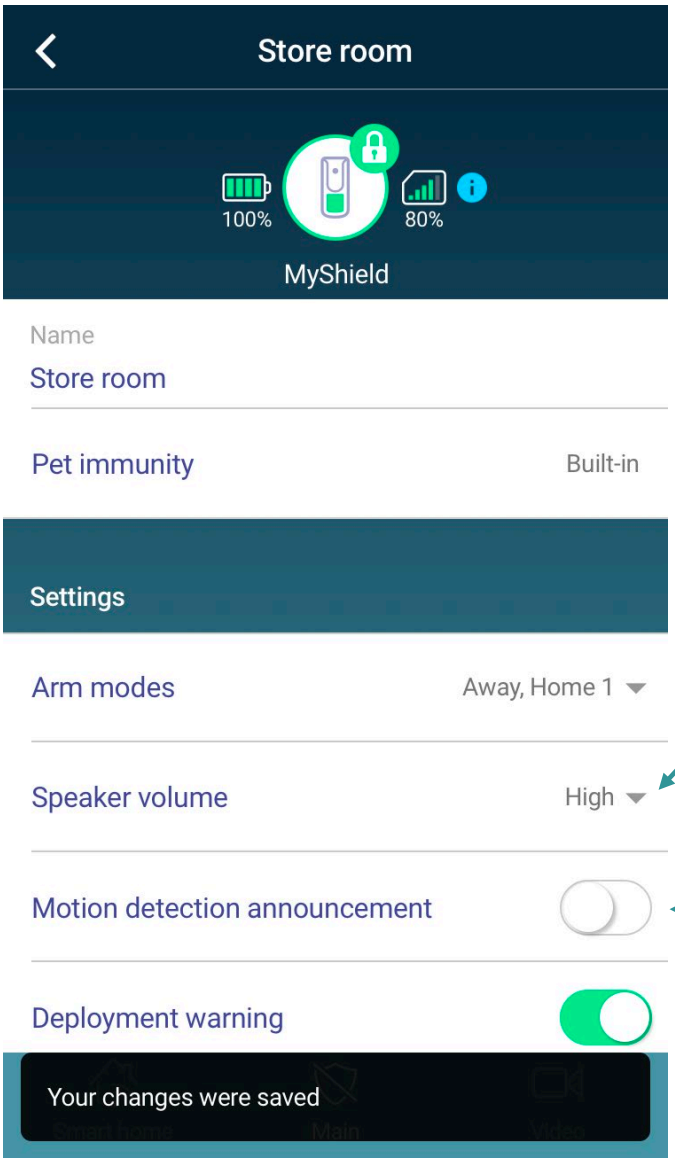


Tap to open the volume menu, where it is possible to set the desired volume for voice announcements.

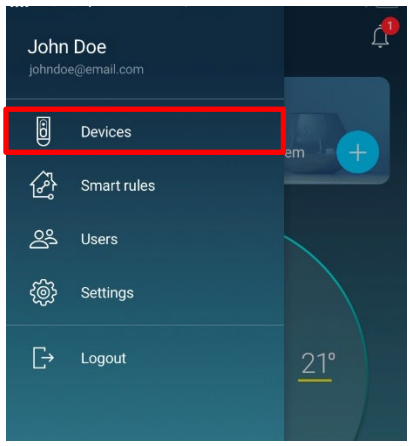
Tap to toggle between playing and not playing an announcement when the MyShield detects motion.

Tap to toggle between playing and not playing an announcement when deploying smoke.

4.8. Viewing the Status of a MyShield Device

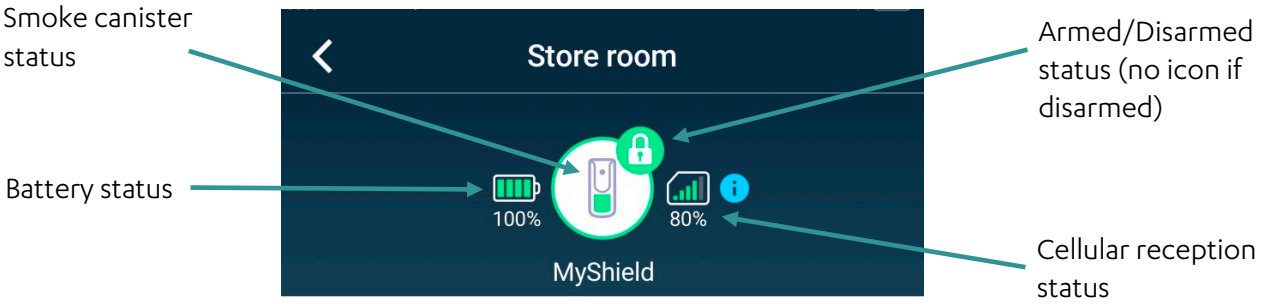
It is possible to view the status of a MyShield's battery, smoke canister, and cellular network connection

1. Open the App menu.
2. Tap **Devices**.



3. Select a MyShield.

The MyShield's status and settings screen will open. Icons for the status of the battery, smoke canister, and cellular reception, will be displayed.



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Element	Icon/ Status	Indicating	Required Action	
Batteries		100%	☐	
		75%	☐	
		50%	☐	Replace batteries
		25%	☐	Replace batteries
		Technical problem with battery	☐	Replace batteries
Smoke canister		Full	☐	
		Empty	☐	Replace canister + batteries
		Simulation Canister Installed		
Cellular reception		100%	☐	
		80%	☐	
		60%	☐	
		40%	☐	
		20%	☐	Consider changing the device's installation location
		0%	☐	Change the device's installation location!!
Armed status		Disarmed		
		Armed Away		
		Armed 1		
		Armed 2		

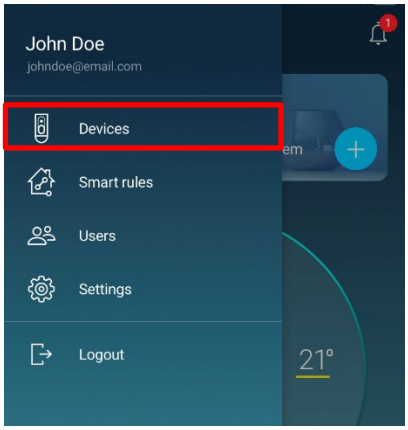
MyShield will send a low battery warning message if battery the voltage falls below 7.9V. In this state, the device will be fully operational for a minimum of 30 days. Schedule a technician to replace the device's batteries.

4.8.1 Viewing the Cellular Reception Levels of a MyShield Device

MyShield can provide RF (radio frequency) reception level details:

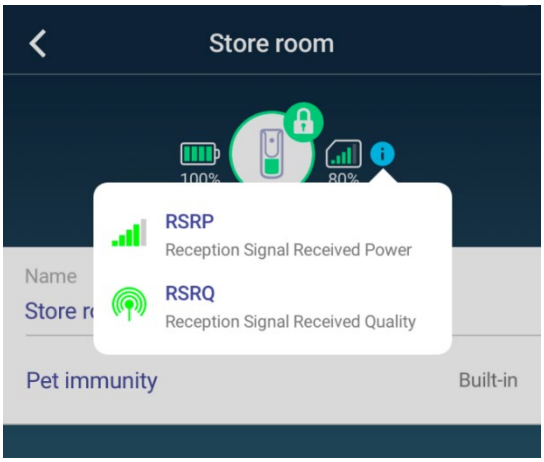
To view the reception level indicators:

1. Open the App menu.
2. Tap **Devices**.



3. Select a MyShield.
4. Tap .

The selected MyShield's RF reception level indicators will be displayed:



Received power (RSRP) indicator	Received signal quality (RSRQ) indicator	Reception Level Indicated
		Excellent
		Very good
		Good
		Adequate
		Weak

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4.8.2 Device Information

MyShield sends information periodically and per event. The information is sent to the cloud and includes the following information:

- MyShield device identification, including a unique security key
- Battery voltage level
- Tamper event status
- Temperature
- RSSI level (cellular reception level)
- Periodic BIT result (built in test)

4.9. Adding Multiple Users

A premises can have multiple installations of MyShield devices, which can be monitored and controlled by multiple users in tandem.

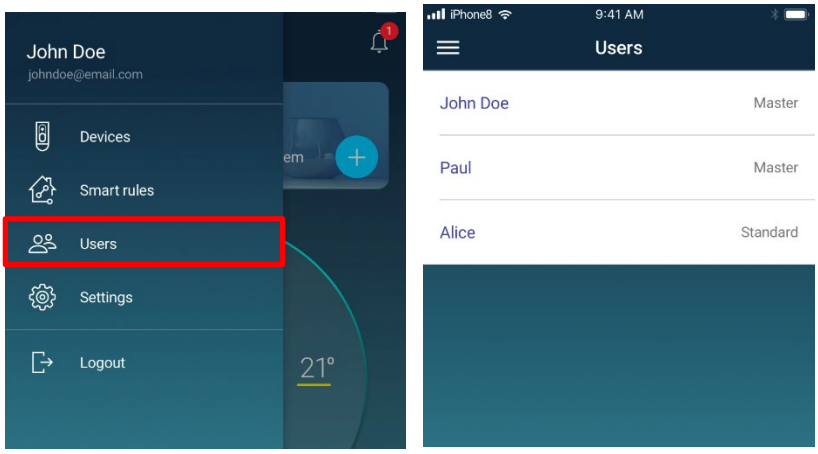
When a user performs any action via the mobile app, the action is also reflected in the applications of any additional configured users.

Each user can be assigned one of two roles – master user or standard user.

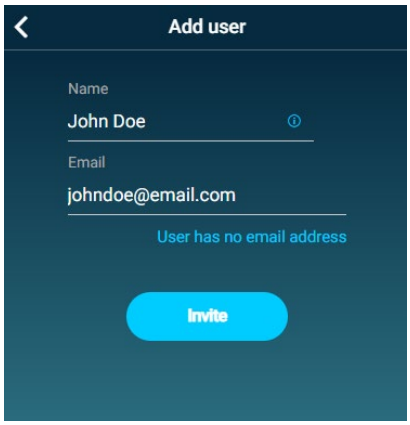
A user can add, remove, and edit other users and devices. This permission level is usually reserved for Master users.

To add a user:

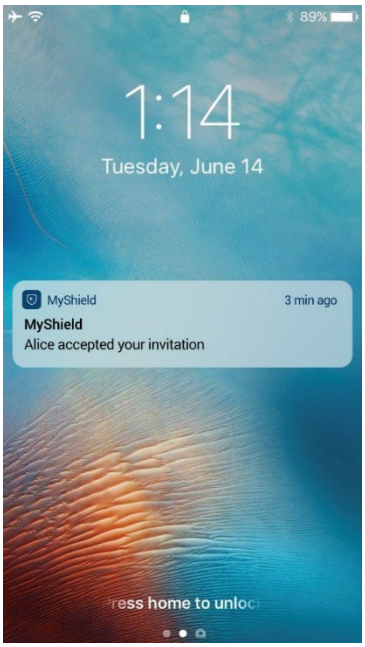
1. Open the App menu.
2. Tap **Users** to display the list of configured users.



3. Tap
4. Enter a name and email address of the new user and tap Invite.
   An invitation email is sent to the user. Until the user accepts the invitation, "Invitation pending" will be displayed on the screen.



5. After the invited user accepts the invitation, a notification message will be sent to the inviting user, and the newly added user will appear in the list of configured users.



6. The procedure can be repeated to add additional users.

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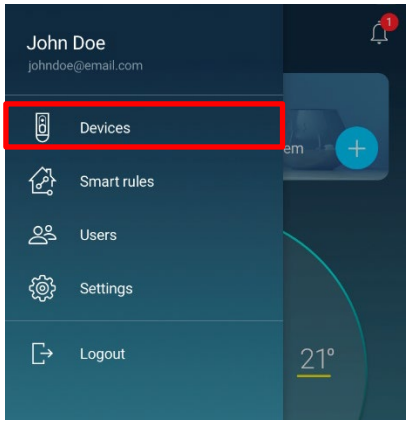
4.10. Adding MyShield Devices

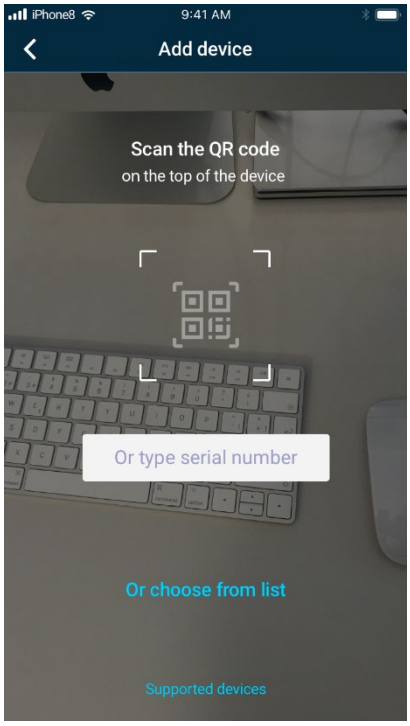
This section describes how to add the first MyShield device or multiple devices to a single user or to multiple users.

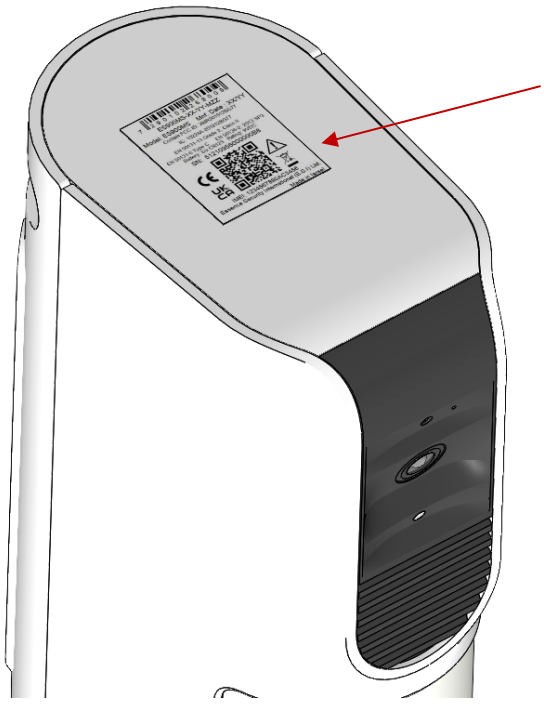
To add multiple MyShield devices:

1. Open the App menu.
2. Tap **Devices**.

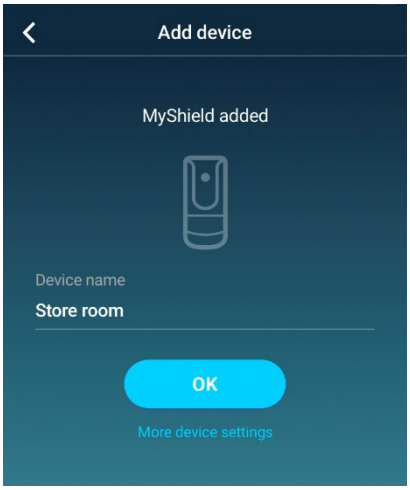


3. Allow the MyShield app to access the device's camera.
4. Scan the QR code located on the top of the MyShield. Alternatively, it is possible to manually enter the serial number, which can also be found on the same sticker with the QR code.





5. Enter a name for the new MyShield and tap OK to add the device.



6. Repeat the procedure to add additional MyShield devices.

4.11. Multiple Places

A Place or a Home is where a single or a group of multiple MyShields are installed.

A user can have more than one place. Multi Places provides users the functionality to add, view and manage several MyShield devices installed at different places.

The Places are independent. An event occurring in one Place does not affect other Places. A MyShield device can be added only to one specific place, once added to that place it cannot be added to any other place. A place can have several devices associated with it.

A user can have few Places, each with few devices. A MyShield that will trigger an alert, will alert on its specific place.

An end user assigned to two or more Places can switch between the Places and manage each one of them separately.

An end user with appropriate permission can add, edit, or remove Places.

Each home has a configurable name. Each user can set a different name for the same home.

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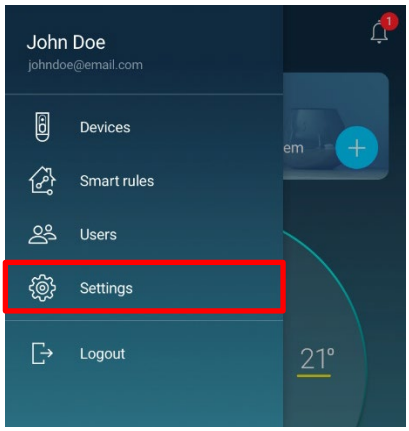
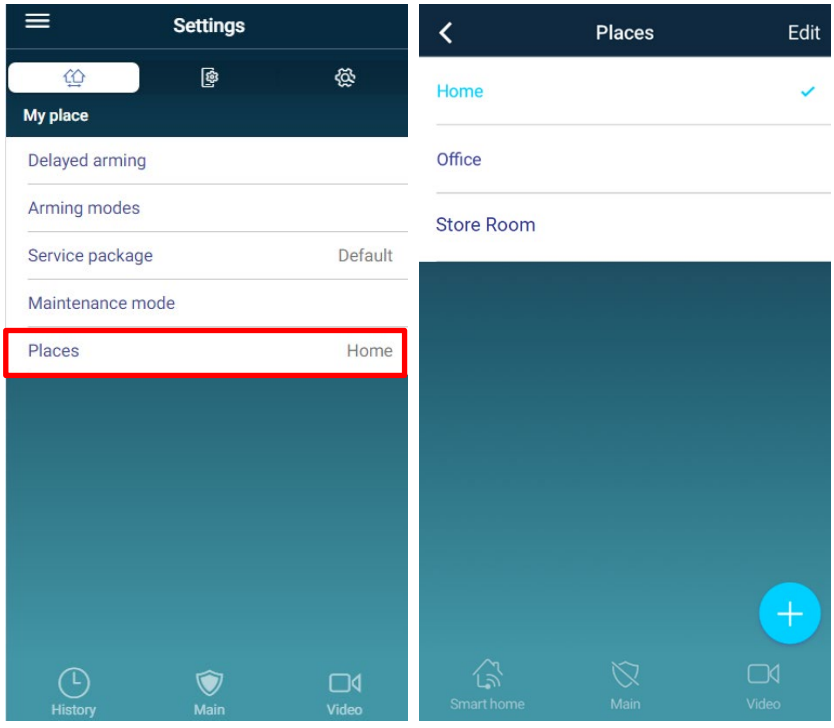
4.11.1 Adding a Place

To add a Place:

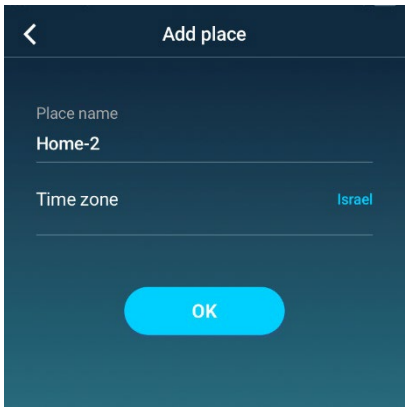
1. Open the App menu.
2. Tap **Settings**.



3. Tap **Places** to display a list of configured Places.



4. Tap to display the **Add place** screen.

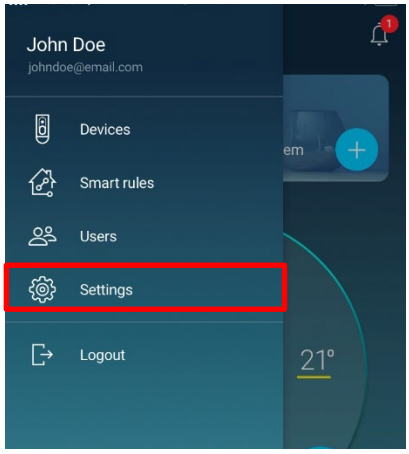


5. In the **Place name** field, enter the desired name f the Place.
6. In the **Time zone** field, set the time zone for this Place.
7. Tap **OK**.

4.11.2 Removing a Place

To remove a Place:

1. Open the App menu.
2. Tap **Settings**.



3. Tap **Places** on the Settings screen to display a list of configured Places.

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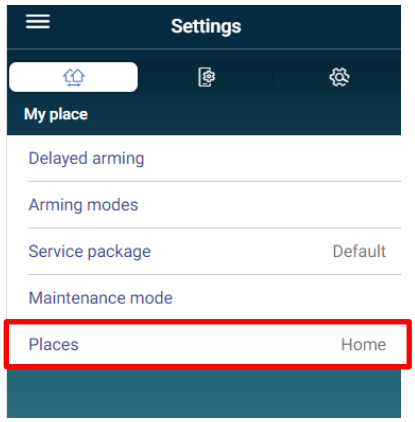
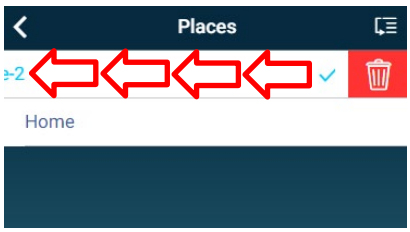


4. It is possible to remove a Place in either of the following ways:
   - Select the Place to be removed and tap **Remove**.

   - Slide left on the Place and tap the trash can icon.

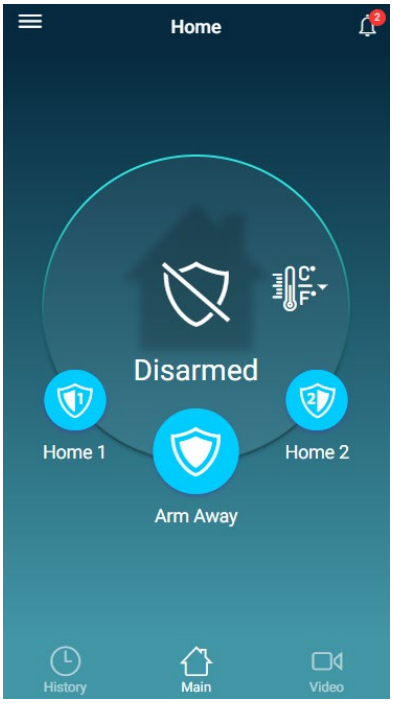


4.12. Force MyShield to Arm

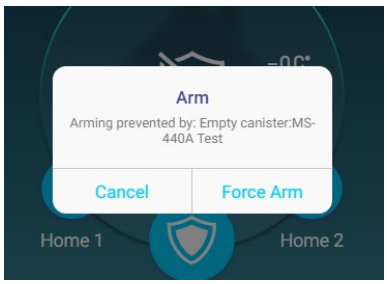
It is possible to force MyShield to arm even in the case of an error. Even if a MyShield has an issue it still be part of the Home arming. For example, a MyShield with an empty canister will prompt with the "Force Arm" pop up alert, and the system can still be armed. The MyShield will still alert on intrusion and will record video but deploying smoke would not be possible.

To force MyShield to arm:

1. Open the **Home** screen.



2. Tap .
   If tampering or another error status is detected, a message such as the following will be displayed:



3. Tap Force Arm.
   The **Home** screen will display the armed status of the device.

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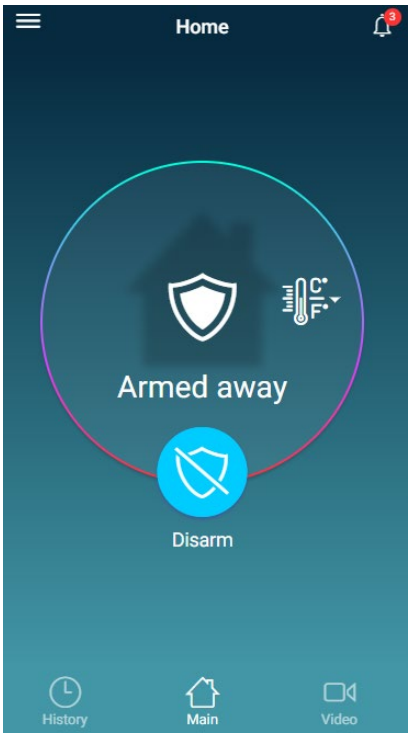
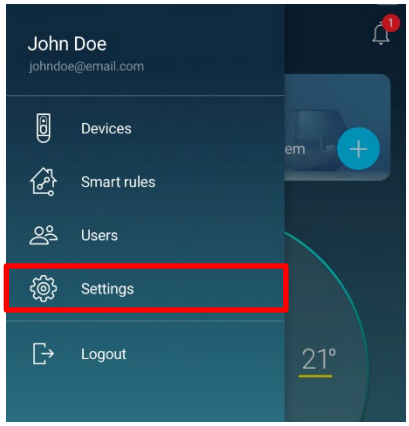


4.13. Delaying Arming MyShield

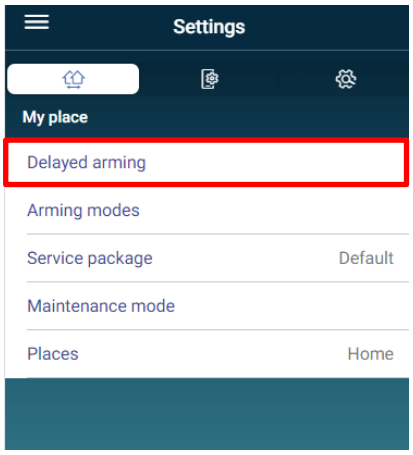
It is possible to delay MyShield arming to allow time to exit the building before the system become armed. The number of seconds that MyShield will wait before arming (after receiving an Arm command) can be configured (per place).

To define an arming delay for a MyShield:

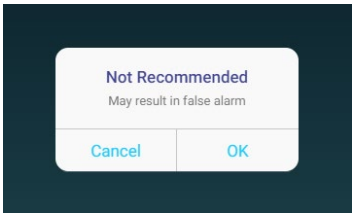
1. Open the App menu.
2. Tap **Settings**.



3. Tap **Delayed arming** to configure the required time delay (in seconds).



NOTE: It is recommended to configure a value other than **None** for the **Delayed arming** feature. Setting the delay to **None** causes the following message to display and may result in false alarms.



4.14. Extending MyShield Control Time

It is possible to extend the MyShield control time (sustain the option to deploy smoke) during intrusion. By default, MyShield will become inactive (power saving mode) after five minutes of an intrusion detection. The user can maintain MyShield in the Arm state (awake). Further detected movement will re-trigger an alarm.

To extend the MyShield control time:

1. While an intrusion is in progress, MyShield can respond to commands from a user (for example, to upload video files) for a period of five minutes. The mobile app displays a counter displaying a countdown of the remaining time:

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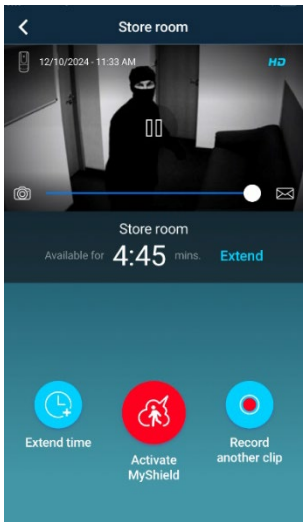


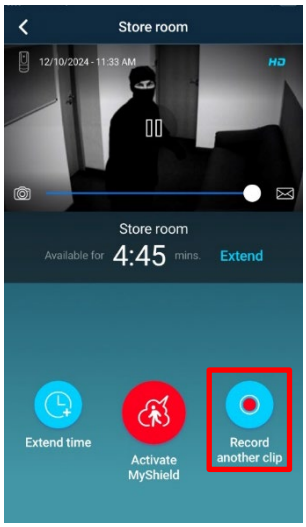
2. Tap Extend to instruct MyShield to continue recording for an additional five minutes.
3. It is possible to keep repeating this procedure - adding an additional five minutes multiple times.

If the control time expires, the "Time to manage expired" message will be displayed, and the user will not be able to instruct MyShield to deploy smoke until a new intrusion is detected.

4.15. Record an Additional Video

Tap Record another clip to instruct MyShield to begin recording a new videoclip.

Recorded clips can be viewed later from the History and Media Gallery screens.



4.16. Password Complexity Policy

The Smart Security app requires a password be defined. This password will be required when:

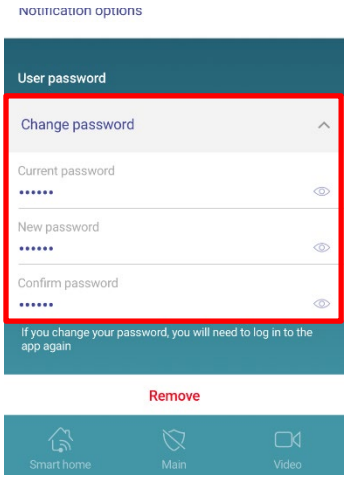
- Signing in as a new user
- Being invited to use the app
- Changing the password
- Pressing "forgot password"
- The password has expired and needs to be changed

When creating or changing a password, users must enter a strong password that meets the following requirements:

- At least one uppercase letter (English A to Z)
- At least one lowercase letter (English a to z)
- At least one numeral (0 to 9)
- At least one special character:

  !@#$%^&*()_+-;:',"<.>/?\|
- Minimum 6 characters
- Maximum 20 characters

If an invalid password is entered, the app will prompt that the new password does not meet the complexity or history requirements."



4.17. Accessing the MyShield User Guide

The MyShield app has built in access to the MyShield User Guide:

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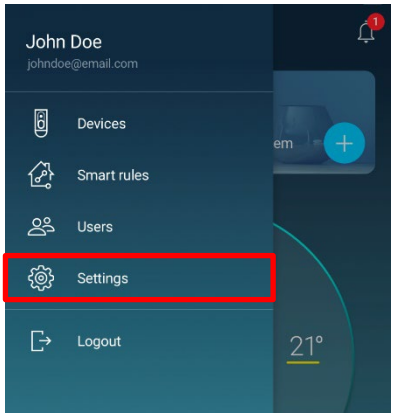
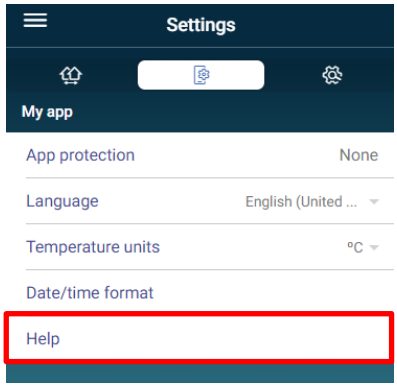
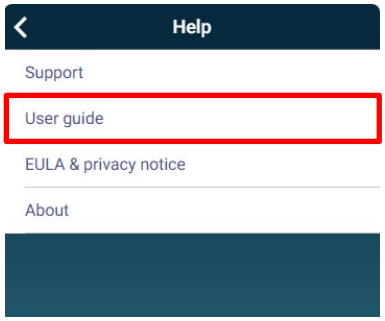
1. Open the App menu.
2. Tap **Settings**.



3. Tap **Help**.



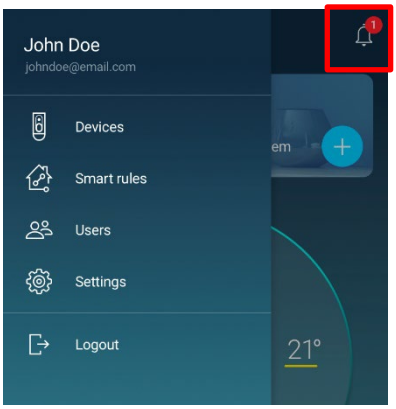
4. Tap **User guide** to display the MyShield User Guide.



4.18. Viewing Notifications

The Smart Security app provides the following types of notification:

- Activity
- System
- MyShield status



To view notifications:

1. Tap the bell icon on the top right side of the app. The Info center screen will appear.
2. To archive a notification, swipe left.
3. To delete a notification, swipe right.

NOTE: Some notifications cannot be archived or deleted and will not respond to swiping.

4.19. Logout

The current user can disconnect from the app by pressing the **Logout** button.

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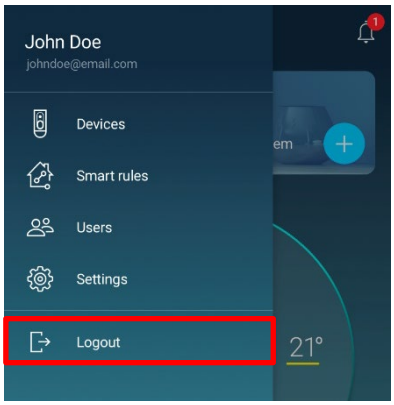

4.20. Smart Security App Troubleshooting

Question	Answer
Smoke is not deployed	In the app, check whether the canister is empty as indicated by the canister status icon: If the canister is empty, replace it.
App does not receive video	Check if the LED is pulsing red every 5 seconds, which indicates that MyShield is disconnected from the server. If it is, check the following: 1. Verify that the SIM card is inserted properly. 2. If the SIM card is inserted properly and the problem persists, contact your cellular service provider. **NOTE:** SIM card replacement should be performed only when the MyShield device is disconnected from all power sources (remove batteries/disconnect external power supply).

5. Replacing the Canister

WARNING! **The canister should only be replaced by authorized personal. The canister will be hot after deploying smoke. Do not touch or replace the canister for at least 30 minutes after deploying smoke.**

There are two scenarios under which the MyShield canister will need to be replaced; either smoke has been deployed or regular maintenance (the canister expiration date has been reached). Proceed according to the relevant section below.

5.1. Smoke has been Deployed

Triggering the canister will fully deplete the MyShield batteries. Both the canister and batteries must be replaced if smoke has been deployed.

To replace the batteries and canister:

1. Wait at least 30 minutes after smoke deployment. Allow the canister time to cool down in order to avoid any risk be being burned.
2. Ventilate the area.
3. Slide MyShield's bottom panel forward until it clicks.

4. Remove the bottom panel.
5. Remove the old canister:
    a. Pull down the canister handle.

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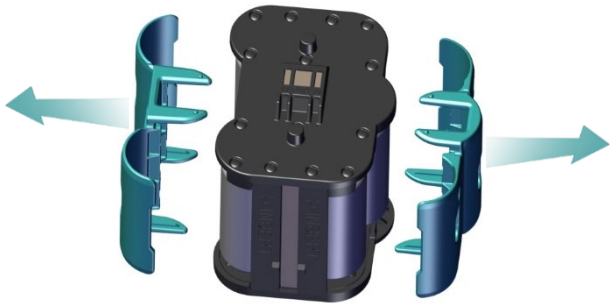
b. Turn the canister handle counterclockwise until it clicks.

c. Pull the depleted canister out of MyShield.

6. Verify that the MyShield has recognized that the canister has been ejected
    a. MyShield will blink the LED (red) for 5 seconds.
    b. It is important to not extract the batteries prior to seeing the LED blink.
7. Replace the depleted batteries:

a. Remove the battery retainer clips



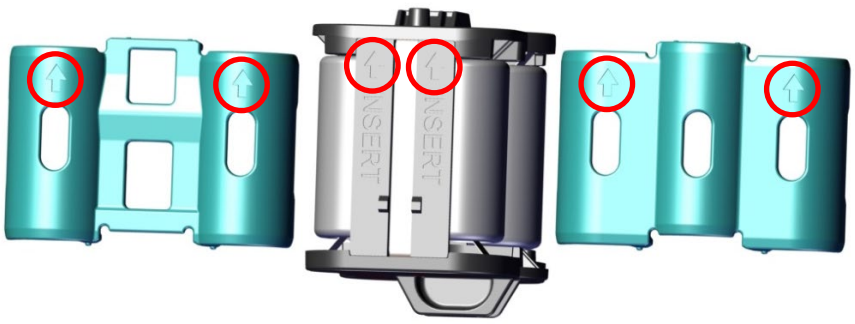
b. Remove the old batteries.

c. Insert new batteries, observing the correct polarity.

WARNING! **A new battery may explode if incorrectly installed. Use only the same or equivalent battery type** and pay attention to battery polarity.

d. Reinstall the battery retainers. Note that:

I. The arrows on the battery retainers and the battery holder should point the same direction.



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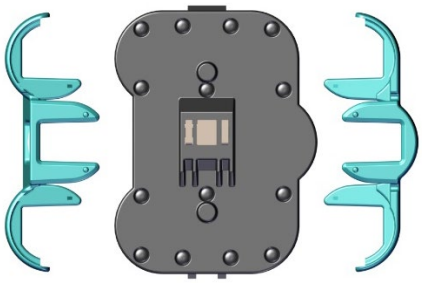
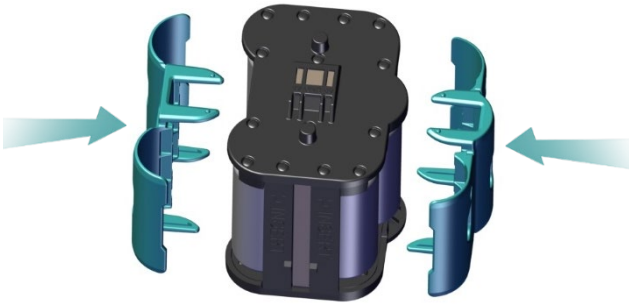
II. One retainer is concave, and one is convex.



III. Align each retainer and install it on the corresponding side of the battery holder.

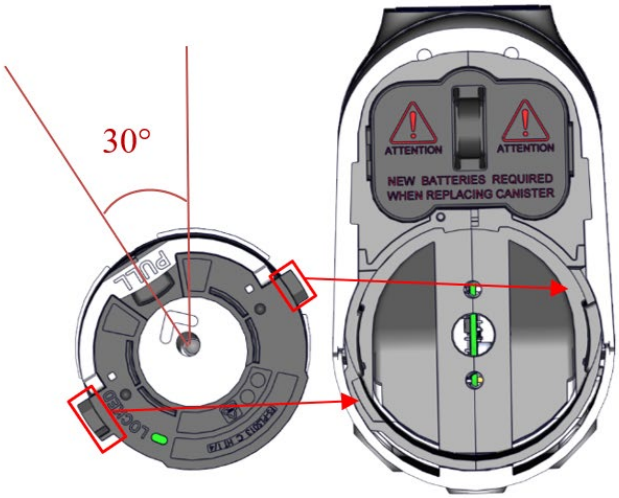


e. Slide the battery holder into the battery compartment until it clicks.

8. Install a new canister:
    a. Fold out the handle on the live smoke canister.

b. Align the canister and slide it into MyShield until it stops.
Pay attention to the canister orientation:

- The arrow (under the pull tab) should face the front of the device. The canister additionally has a sticker indicating Front.
- Note the two asymmetrical canister wings and their corresponding slots on the MyShield.
- Note that the canister should be inserted at a 30° counterclockwise rotation.



c. Rotate the canister clockwise 30°until it clicks.

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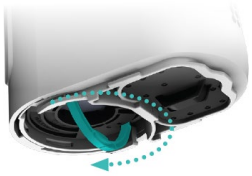
d. Turn the canister handle clockwise until it clicks.



e. Push the canister handle up until it clicks.

9. Position the bottom cover over the bottom of MyShield.
10. Slide the bottom panel toward the back of MyShield until it clicks.

After inserting new batteries, the MyShield device will reset itself and automatically begin to verify the quality of its cellular network connection - as described in the *MyShield Installation Guide*.

5.2. The canister has reached its expiration date

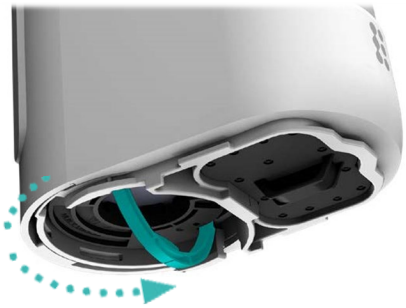
The batteries are still in good condition and were not depleted during smoke deployment.

To replace the canister:

1. Slide the MyShield bottom panel forward until it clicks.

2. Remove the bottom panel.
3. Remove the old smoke canister
    a. Pull down the canister handle.

    b. Turn the canister handle counterclockwise until it clicks.



    c. Pull the canister out of MyShield.

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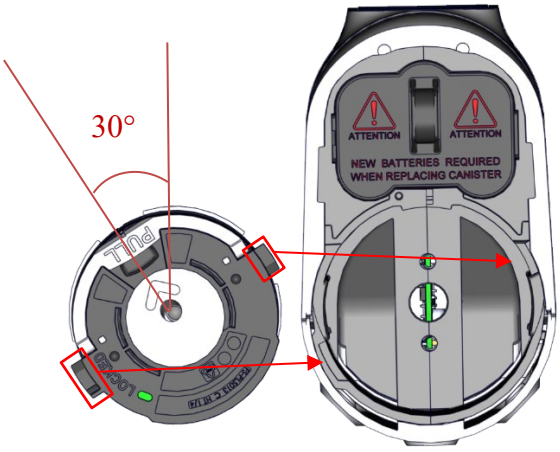
4. Install a new:

   a. Fold out the handle on the live smoke canister.

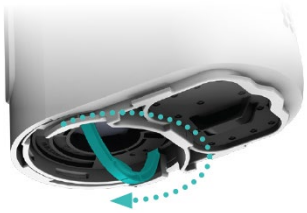
   b. Align the canister and slide it into MyShield until it stops.
   Pay attention to the canister orientation:

   - The yellow "FRONT" labels on the canister should be pointing towards the front of the device (same direction as the camera).
   - The arrow (under the pull tab) should face the front of the device (same direction as the camera).
   - Note the two asymmetrical canister wings and their corresponding slots on the MyShield.
   - Note that the canister should be inserted at a 30° counterclockwise rotation.



   c. Rotate the canister clockwise 30°until it clicks.

d. Turn the canister handle clockwise until it clicks.



e. Push the canister handle up until it clicks.

5. Replace the MyShield bottom panel.
6. Slide the bottom panel toward the back of the MyShield until it clicks.

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6. Replacing the Batteries

There are two scenarios under which the MyShield will require the batteries be replaced:

- Smoke deployment will fully deplete the batteries. In this scenario both the canister and batteries must be replaced.
  Please follow the detailed instructions in section: **5** *Replacing the canister* → **5.1** *Smoke has been deployed*

> WARNING! **The canister will be hot after deploying smoke. Do not touch or replace the canister for at least 30 minutes after deploying smoke.**

- The MyShield app has provided notification that batteries are running low.
  Please follow the detailed instructions below.

To replace the batteries:

1. Slide the MyShield's bottom forward panel until it clicks.

2. Remove the bottom panel.
3. Remove the canister:
   f. Pull down the canister handle.

g. Turn the canister handle counterclockwise until it clicks.

h. Pull the canister out of the MyShield.

4. Verify that the MyShield has recognized that the canister has been ejected
    a. MyShield will blink the LED red for 5 seconds.
    b. It is important to not extract the batteries prior to seeing the LED blink.
5. Replacing the old batteries
    a. While pressing the red release button, pull out the multi-cell battery holder.

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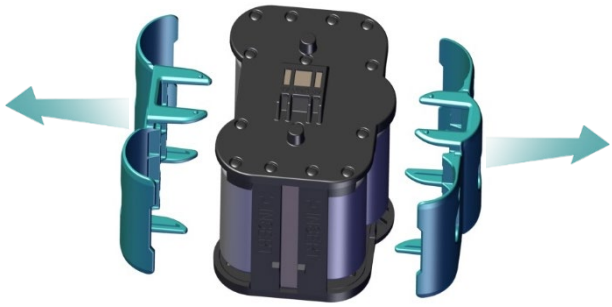
b. Remove the battery retainer clips



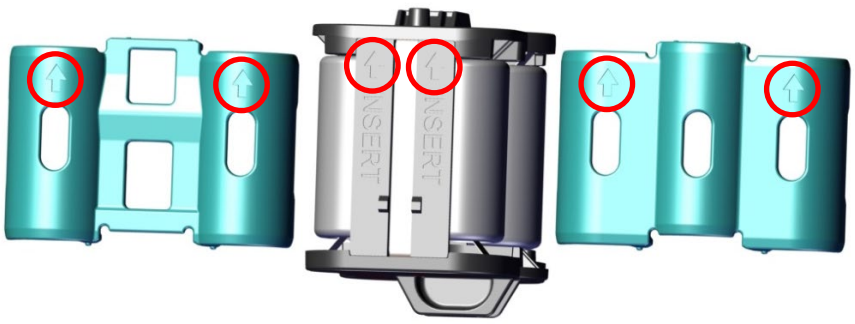
c. Remove the old batteries.

d. Insert new batteries, observing the correct polarity.

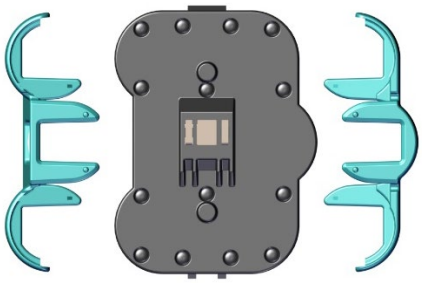
WARNING! **A new battery may explode if incorrectly installed. Use only the same or equivalent battery type** and pay attention to battery polarity.

e. Reinstall the battery retainers. Note that:

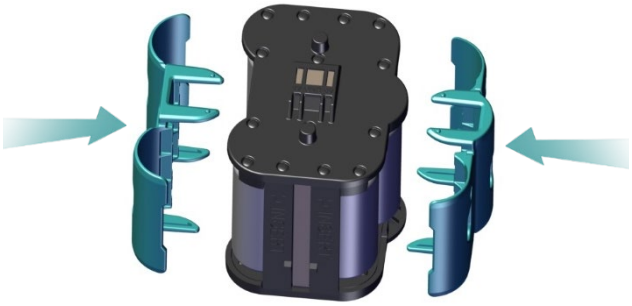
IV. The arrows on the battery retainers and the battery holder should point the same direction.



V. One retainer is concave, and one is convex.



VI. Align each retainer and install it on the corresponding side of the battery holder.



f. Slide the battery holder into the battery compartment until it clicks.

6. Reinstall the canister

   a. Fold out the handle on the live smoke canister.

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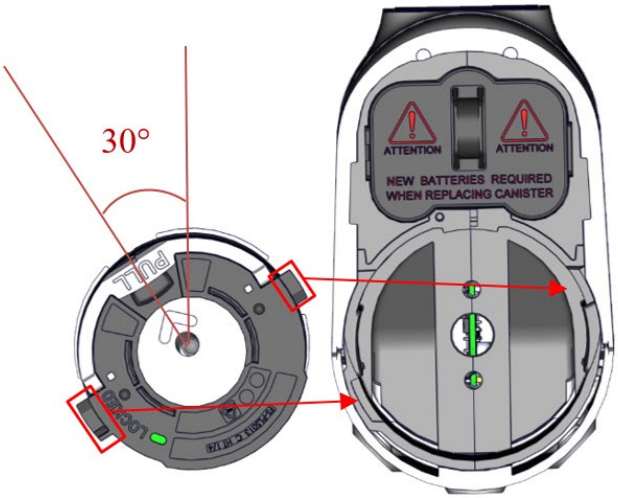
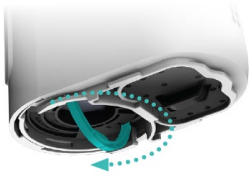
b. Align the canister and slide it into MyShield until it stops.
Pay attention to the canister orientation:

- The arrow (under the pull tab) should face the front of the device. The canister additionally has a sticker indicating Front.
- Note the two asymmetrical canister wings and their corresponding slots on the MyShield.
- Note that the canister should be inserted at a 30° counterclockwise rotation.



c. Rotate the canister clockwise 30°until it clicks.

d. Turn the canister handle clockwise until it clicks.



e. Push the canister handle up until it clicks.

7. Replace the MyShield bottom panel.
8. Slide the bottom panel toward the back of MyShield until it clicks.

After inserting the batteries, the MyShield will reset itself and automatically begin to check the quality of its cellular network connection, as described in the *MyShield Installation Guide*.

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7. Connecting the Optional Wiring Kit

The MyShield product line can be fitted with an optional wired input kit. This will expand functionality to include:

- Option 1: Connect MyShield to an external 12V DC power source (third party system or any 12V power source)
- Option 2: Connect MyShield to a dry contact switch

This topic is covered in detail in the *MyShield Installation Guide*.

8. Specifications

Category	Details	
Part numbers	MyShield	ES900MS
	Simulation canister for demo purposes	ES900CANS-GN-M01
	Simulation canister for installation	ES900CANS-GN-M02
	Smoke canister	ESPL06219
Communications	Protocol	• LTE CAT-M cellular network • MQTT
	Operation mode	Pass-through
Security	Tamper alarm	• Removal from the wall • Canister removal • Wired-input cable cut
Power	Batteries	Six CR123A 3V batteries Operating voltage 9VDC Standby current 55uA
	Battery life	Up to two years Batteries must be replaced after smoke deployment
	External power	12vDC 1.5A
Motion sensor	PIR PIR with pet immune lens	FOV 155° up to 12 m (39 ft.) FOV 146° up to 10 m (33 ft.)
Audio	Microphone Speaker	MEMS-type, digital 40mm, 4 Ohm, 3W
Video	Camera	HD CMOS
	Effective range	• Daylight: 12 m (39.4 ft.) • Darkness: 6 m (19.7 ft.)
	Color night recording	With white LED
	Resolution	1280 x 720 pixels
	Video angle (H x V)	140° x 79°
	Video compression	H.264 encoding

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Category	Details	
	Trigger mechanism	PIR detection
Dimensions	Size (H x W x D)	208 mm x 132 mm x 78 mm 8.2 in. x 5.2 in. x 3.1 in.
	Weight	~1 kg (~2.2 lbs.) including batteries and full canister
Environment	Storage ambient temperature range	-20°C to 70°C (-4°F to 158°F)
	Operating ambient temperature range	-10°C to 55°C (14°F to 131°F)
	Operating humidity	Up to 95% non-condensing at 50°C (122°F)
	Water and dust resistant	IP21 compliant
Canister	Smoke duration	~30 seconds
	Saturable volume	70 m3
	Size (D x H)	63 mm (2.5 in.) x 115 mm (4.5 in.)
	Weight	400 g (0.88 lbs.)
	Storage ambient temperature range:	-20°C to 75°C (-4°F to 167°F)
	EC category	P1
	Transport class	1.4S
	Life span	Five years
Certifications, Approvals and Tests	Alter Technology TÜV NORD S.A.U. ● EN 50131-1:2006 + A3:2020 ● EN 50131-13:2020 Grade 2 (tested) ● EN 50131-6:2017 + A1:2021 – Type C ● EN 50130-4:2011 + A1:2014 ● EN 50130-5 Environmental Class II ● EN 50131-10: 2014 ● EN 50136-2:2013 + A1:2023 SP3	Other certifications ● EN 62368-1 ● EN 61000-6-3 ● EN 301 489-1 ● EN 301 489-3 ● EN 901-908-CAT-M ● EC category: P1 (canister) ● UN 0432 class code 1.4S (canister)

Appendix A LED Indications

The MyShield LED displays the following operational information:

LED Behavior	Meaning
1 red pulse (2 seconds long)	• Failed self-test • Motion detected • Tamper detected
1 green pulse (2 seconds long)	Passed self-test
Green and orange pulses alternating as follows: • ½ second green pulse (approximately) • ½ second interval (approximately) • ½ second orange pulse (approximately) • 10 second interval • ½ second green pulse (approximately) • And so on	Starting cellular network registration
Pulsing red every 10 seconds	Failed cellular network registration
Pulsing red every 5 seconds	Successful cellular network registration, awaiting MQTT connection

Appendix B Canister Safety Data Sheet (SDS)

The Safety Data Sheet (SDS) for the MyShield smoke canister can be accessed online:
https://4543881.fs1.hubspotusercontent-na1.net/hubfs/4543881/PDF%20WEBSITE/MyShield/english/myshield_panzera_safety_datasheet.pdf

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1. *You may only use the product for legitimate security purposes (and not, for example, for any obscene, lewd or improper purpose)*

   AND

2. *You must post a clear sign of the use of surveillance camera that is sufficiently conspicuous to be observed by any person who may be captured by the camera.*

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