

# GUARD | User Manual IP4MCB1



 **DEFENDER®**

# SUPPORT

For product inquiries, updates, and for help, visit [defender-usa.com/support](https://defender-usa.com/support)

## PRODUCT VIDEOS

Do you need quick walkthroughs of how to setup and use your camera? Visit: [defender-usa.com/guardsupport](https://defender-usa.com/guardsupport)

## WARRANTY

1. DEFENDER® products are guaranteed for a period of one year from the date of purchase against defects in workmanship and materials. This warranty is limited to the repair, replacement or refund of the purchase price at DEFENDER®'S option.
2. The warranty becomes void if the product shows evidence of having been misused, mishandled or tampered with contrary to the applicable instruction manual.
3. Routine cleaning, normal cosmetic, and mechanical wear and tear are not covered under the terms of this warranty.
4. The warranty expressly provided for herein is the sole warranty provided in connection with the product itself and no other warranty, expressed or implied is provided. DEFENDER® assumes no responsibilities for any other claims not specifically mentioned in this warranty.
5. The warranty does not cover shipping costs, insurance or any other incidental charges.
6. You MUST contact DEFENDER® before sending any product back for repair. You will be sent a Return Authorization Number with return instructions. When returning the product for warranty service, please pack it carefully in the original box with all supplied accessories, and enclose your original receipt or a copy, and a brief explanation of the problem (including the RA#).
7. This warranty is valid in Canada and the contiguous USA.
8. This warranty cannot be re-issued.

### Disclaimers

- Wireless cameras require a wired connection to a power outlet.
- When viewing remotely: Video quality and connectivity is dependent on network performance. An upload speed of 5Mbps is recommended for optimal video performance.
- DEFENDER® highly recommends the use of an Uninterruptible Power Supply (UPS) with surge protection for all products.
- The product requires a broadband router and broadband internet connection – not included.
- DEFENDER® does not endorse any DEFENDER® products for illegal activities.
- DEFENDER® is not responsible or liable in any way for any damage, vandalism, theft or any other action that may occur while a DEFENDER® product is in use by the purchaser.
- We reserve the right to change models, configuration or specifications without notice or liability. Product may not be exactly as shown
- Night vision range is up to 30 M (100 ft) under ideal conditions in ambient lighting. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.
- This product contains small parts. Exercise care when unpacking and assembling the product around children.

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# COMPLIANCE

## DEFENDER® FCC STATEMENT

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 connect 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.

**FCC Caution:** 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.

Non-modification Statement: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Radiation Exposure Statement:** 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.

## IC STATEMENT

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

This device may not cause interference, and

This device must accept any interference, including interference that may cause undesired operation of the device.

**RF Exposure Statement:** IC Radiation Exposure Statement. This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

ICES-003

CAN ICES (B) / NMB-3 (B)

# SAFETY

We recommend using an Uninterruptable Power Supply (UPS): Connecting to a UPS allows for continuous use during a power outage. The remaining power duration will depend on the USP used.

Use the Power Supply/Adapter provided: Do not use this product with a power supply that exceeds the specified voltage.

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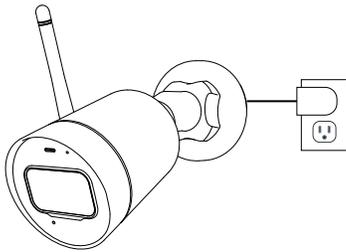
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# OVERVIEW

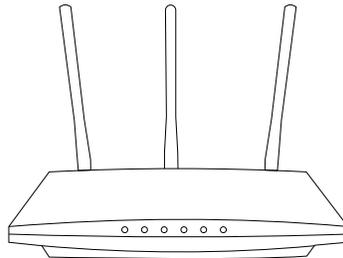
**Congratulations on purchasing your new Defender Guard Wi-Fi camera!** We hope you like it just as much as we loved building it so that you can protect what you value most.

We encourage you to reach out to our support team for assistance, help videos, and feedback on how we can improve. You can find all of this and more at [defender-usa.com/guardsupport](https://defender-usa.com/guardsupport)

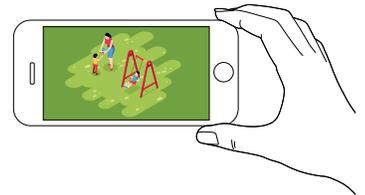
## Camera System Setup



Camera is connected to a power outlet



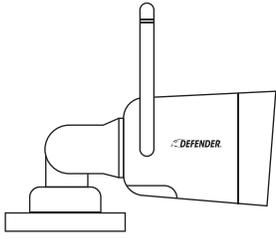
Camera connects to your 2.4 GHz network via Wi-Fi\*



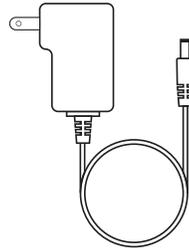
Camera feed is viewed on Mobile App via a Wi-Fi or Cellular network

**NOTE: Your Defender Guard camera can only connect over 2.4 GHz Wi-Fi and not 5 GHz connections. You can also setup a wired connection directly to your camera. See page 7 for more details.**

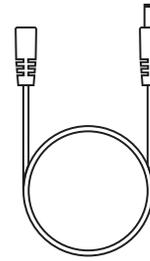
# WHAT'S INCLUDED



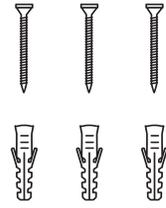
Camera with pre-installed  
16GB Micro SD Card



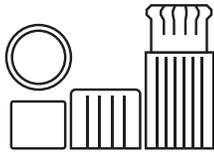
Camera Power  
Supply (10 ft)



Camera Power  
Extension (25 ft)



Camera Mounting  
Hardware



Ethernet  
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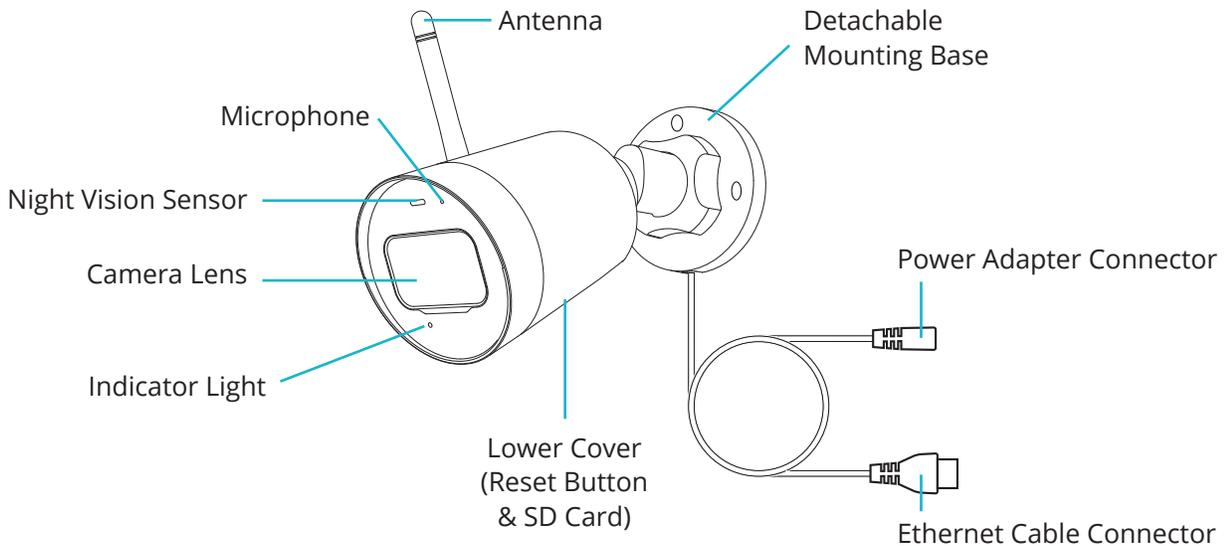
Quick Start Guide



Free Lifetime Customer  
Support & Access to the  
Defender Guard App

**IMPORTANT: The Camera Power Supply is not waterproof.**

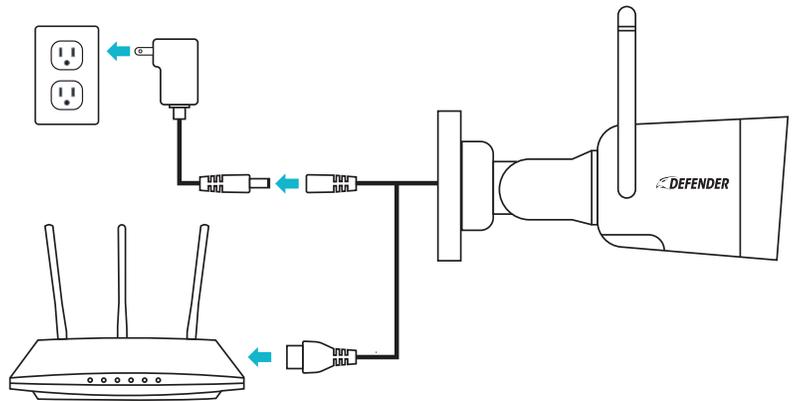
# GETTING TO KNOW YOUR CAMERA



# POWERING ON YOUR CAMERA

1. Connect the Power Adapter to the Power Connector on the Camera.
2. Connect the Power Adapter to a power outlet.
3. Connect an Ethernet cable (not included) to the Network connector on the Camera and to your modem/router.

**OPTIONAL:** Step 3 may be required for initial setup depending on your network type.

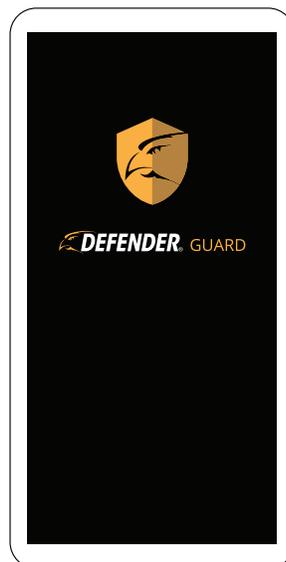


# SETTING UP YOUR CAMERA

## How do I get started with creating a Defender account?

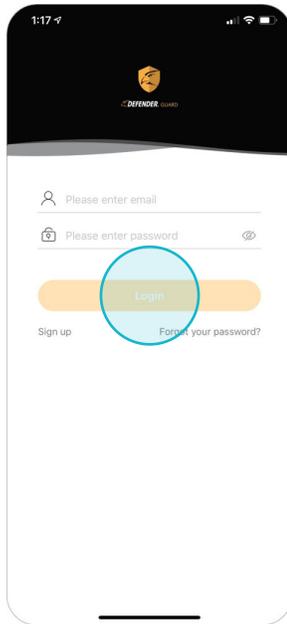
First, download the **Defender Guard** app from the Google Play Store or Apple App Store.

Scan the QR code to go directly to the Store pages, for your convenience. Then, proceed to download the app using your Google Play Store or Apple AppStore credentials. Follow the steps on the next page for steps within the app.

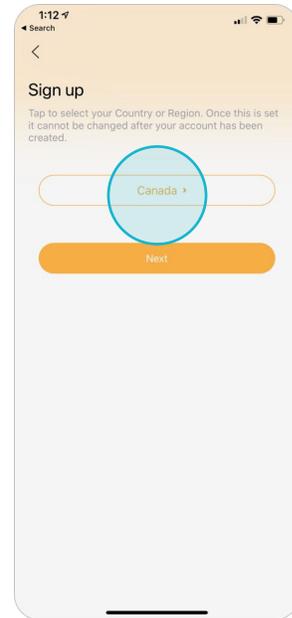


## Account Setup

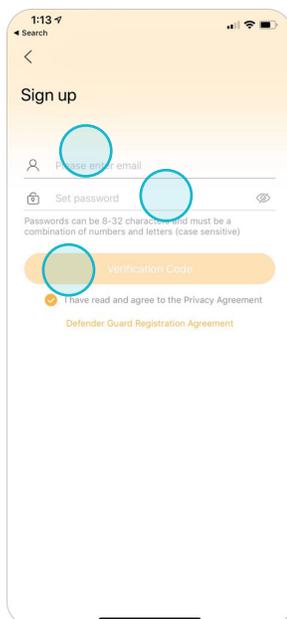
1. Tap Sign Up to begin creating an account.



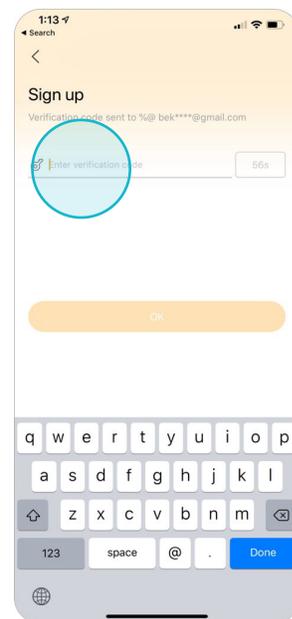
2. Select your country, then tap next.



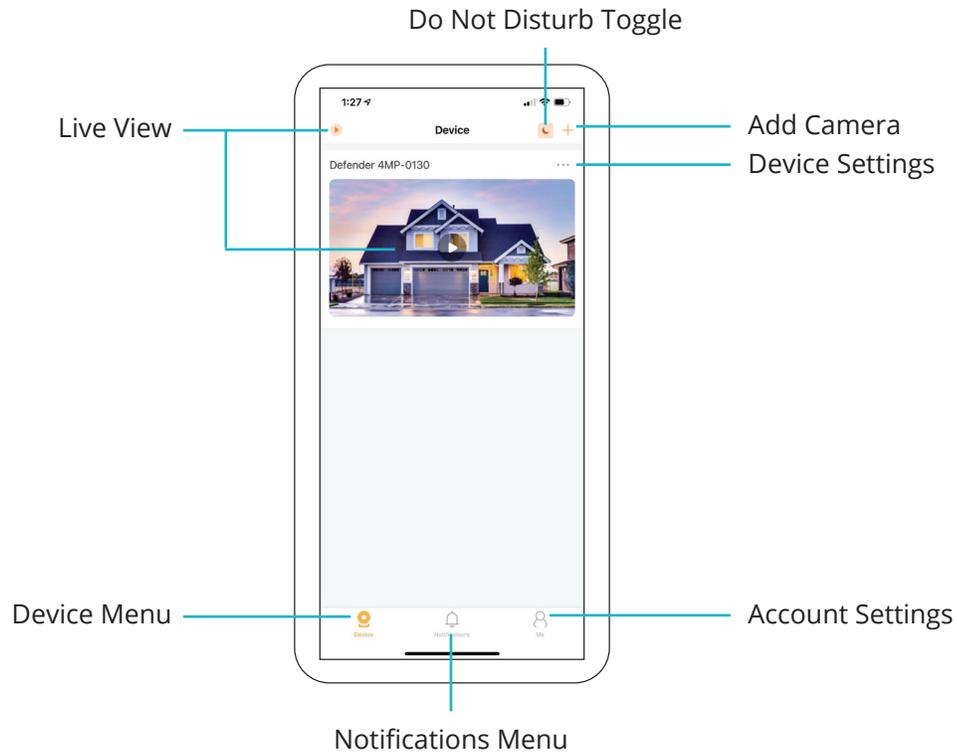
3. Enter an email you'd like to use for your account. Then enter a password. Ensure to agree to the Terms and Conditions at the bottom of the screen.



4. You will receive a verification code within 15 mins at the email you used in Step 3. Enter it now. Tap Get Again after a minute if no code is received.



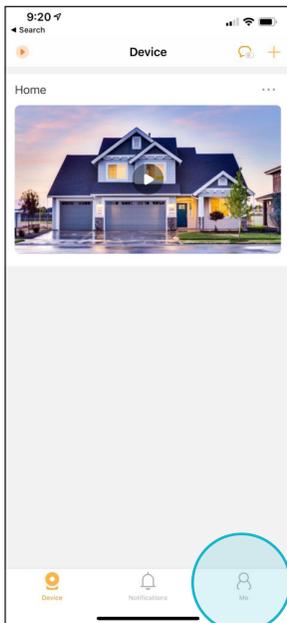
## Getting to know the home screen



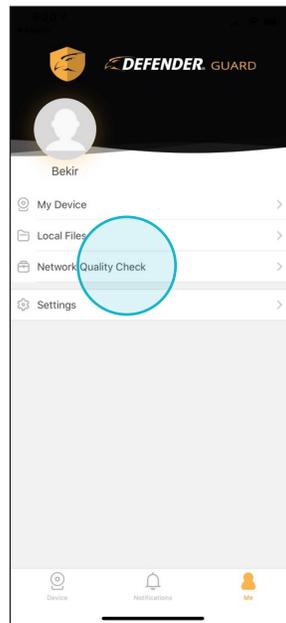
## How do I setup my camera using a Wi-Fi network?

Once your camera is powered on and the app is downloaded on your device with an active account, it is recommended you first perform a Network Quality Check at the location where you intend to mount your camera:

1. Tap Me to access Account Settings.



2. Tap Network Quality Check.



3. Tap Start Wi-Fi Range Test.



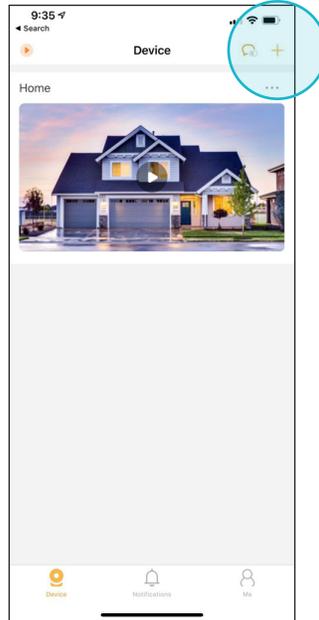
## Ensure your phone is connected to a 2.4 GHz Wi-Fi network before proceeding!

Now, follow these steps to connect your camera to the Wi-Fi network:

4. After powering on your device, wait 60 seconds for the LED to flash green.



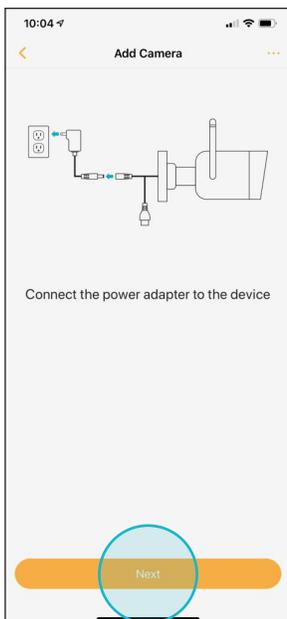
5. Tap the + icon to add a new camera.



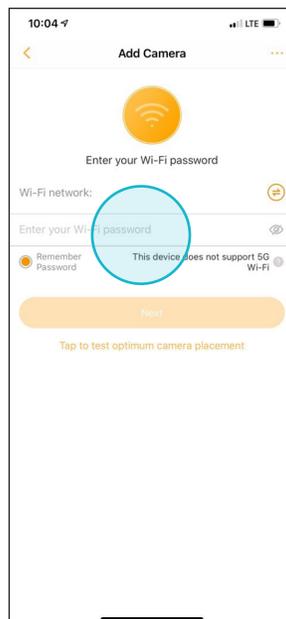
6. Scan the QR code on the bottom of the camera.



7. Tap Next.



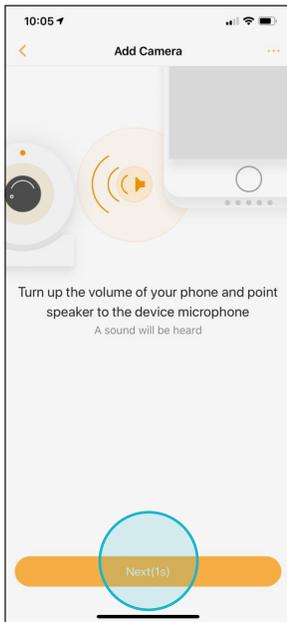
8. Now enter the Wi-Fi password for the network you are connected to.



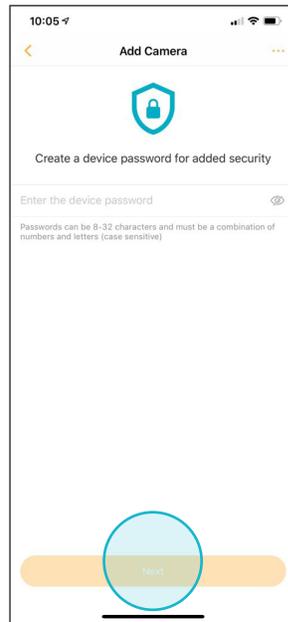
9. Confirm that the LED Indicator is flashing green. Then tap Next.



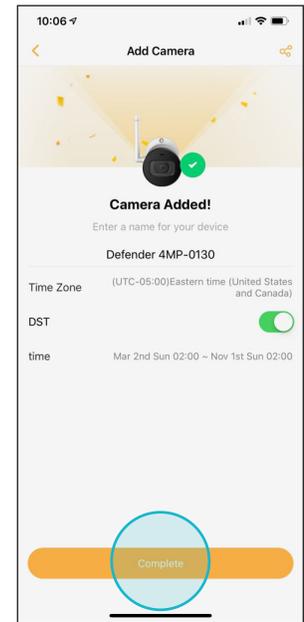
10. Turn up the volume on your device and it will communicate securely with your camera.



11. Enter a password to protect your camera.



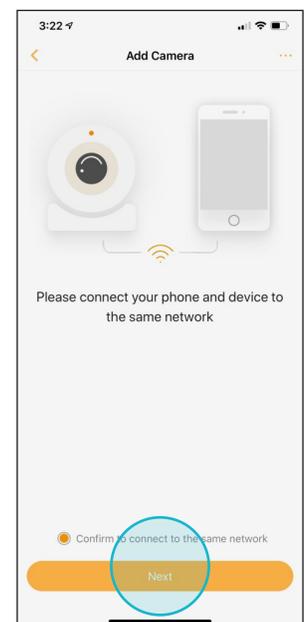
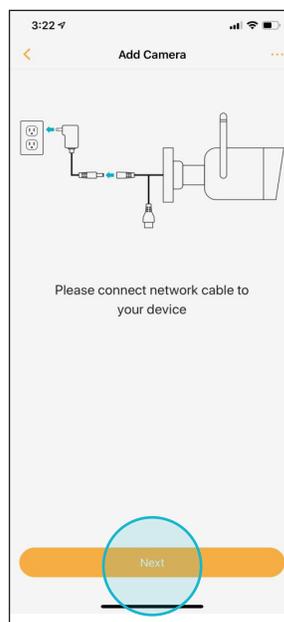
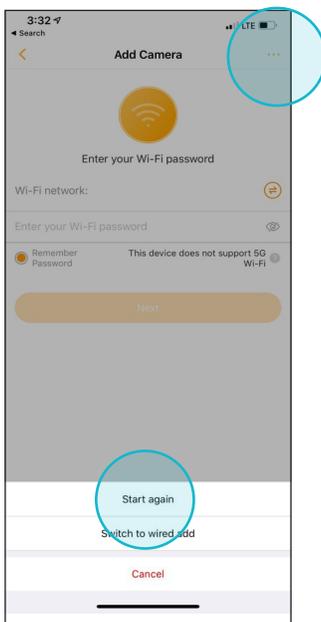
12. If you like, you change the default camera name to your own choosing. Ensure time settings are correct.



## How do I setup my camera using a wired connection?

These steps should be followed when your Wi-Fi network is not stable enough for a Wi-Fi connection or you intend to use this camera via a wired connection. Your device will still need to be connected to your network's Wi-Fi for this process to work.

1. On the Wi-Fi screen, tap the Menu button at the top right and then tap Switch to wired add.
2. Connect an ethernet cable from your router directly to your camera. The ethernet cable should always be connected from this step onwards.
3. Make sure your device is connected to your network's Wi-Fi, and then proceed as in Steps 11-12 in Wi-Fi camera setup.



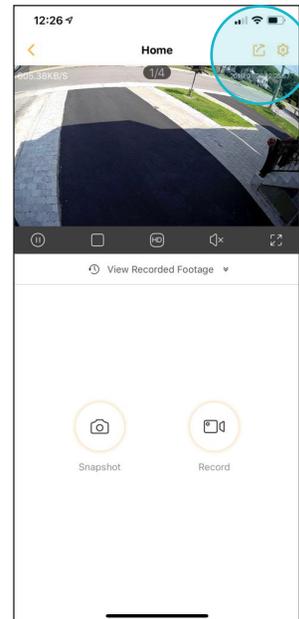
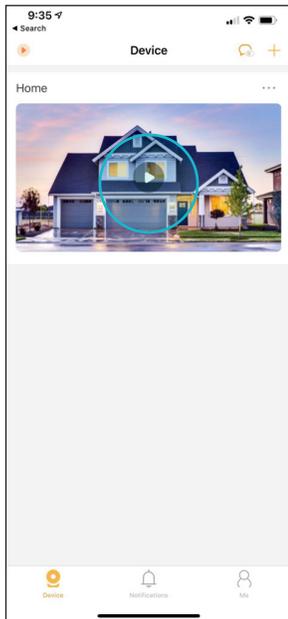
## How do I manage multiple cameras and accounts?

Depending on your network speed, it is recommended you do not pair more than 6 cameras to 1 user account or share 1 camera with more than 6 user accounts.

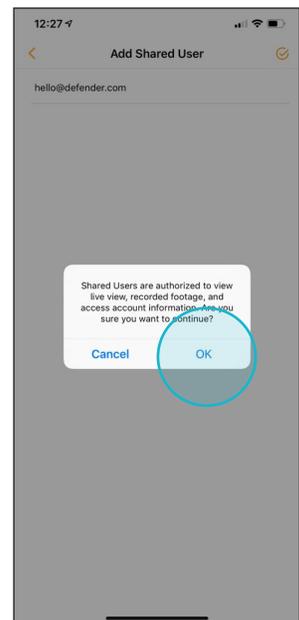
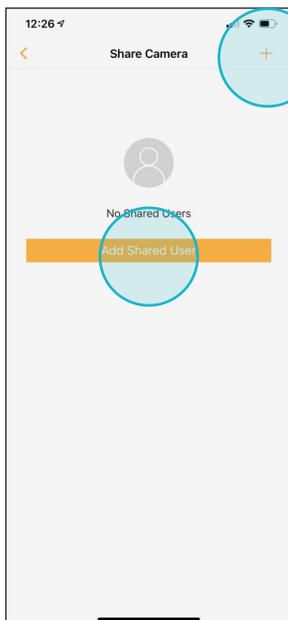
To add a new camera, follow the steps in [How do I setup my camera using a Wi-Fi network?](#) and [How do I manage multiple cameras and accounts?](#)

### Follow these steps to share a camera among multiple user accounts:

1. On the Device Main Menu, tap the Play icon on any you'd like to share.
2. On the Live View screen, tap the Share icon. Then tap Share Device.



3. Tap either + or Add Shared User buttons to add another user account to your camera. The other user account must be created beforehand.
4. Confirm you would like to share your camera with the other user. Once shared, you may also delete user access.



## How do I install and mount my camera?

Before mounting your camera, it is strongly advised that you test your intended location with the Network Quality Check tool. See Steps 1-3 in [How do I install and mount my camera?](#)

### You'll need the following before installation:

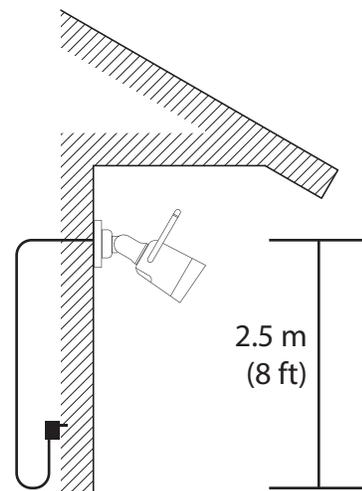
- A 2.4 GHz high speed Wi-Fi Internet connection
- Drill with a Philips driver bit set and 1' drill bit, OR a standard Philips #2 screwdriver
- Ladder (if required)
- A sufficiently long ethernet cable from your router to camera (for wired connection setups)

1. Note that certain exterior finishes, thicker walls and ceilings, and other materials/obstacles can reduce range significantly.

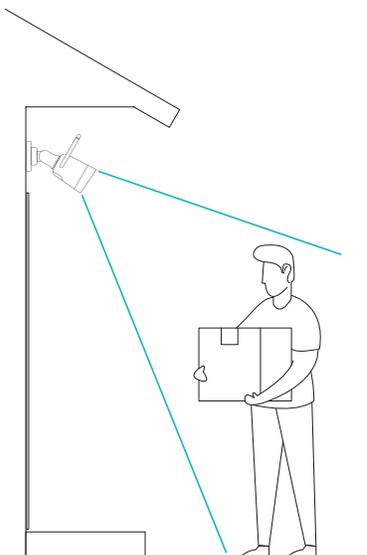
Watch for:

- Brick
- Concrete
- Stone
- Ceramic
- Glass and mirrors
- Metal framing, structure, sheathing
- Tanks holding liquid (e.g., aquariums)

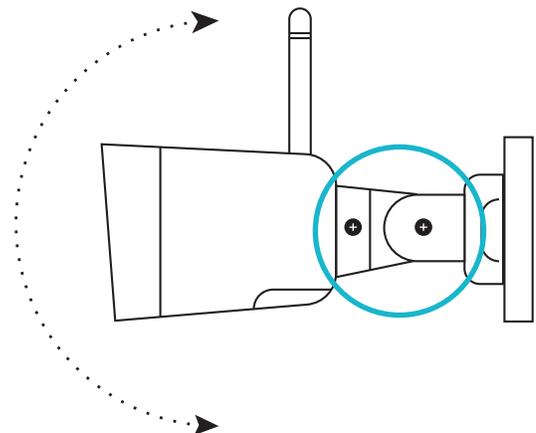
2. Position your camera at least 7 ft. off the ground so that you can see faces, etc. Ensure there is a nearby power outlet.



3. Your camera has a 123-degree viewing angle. Position the camera so that the space you'd like to monitor is within this field of view.

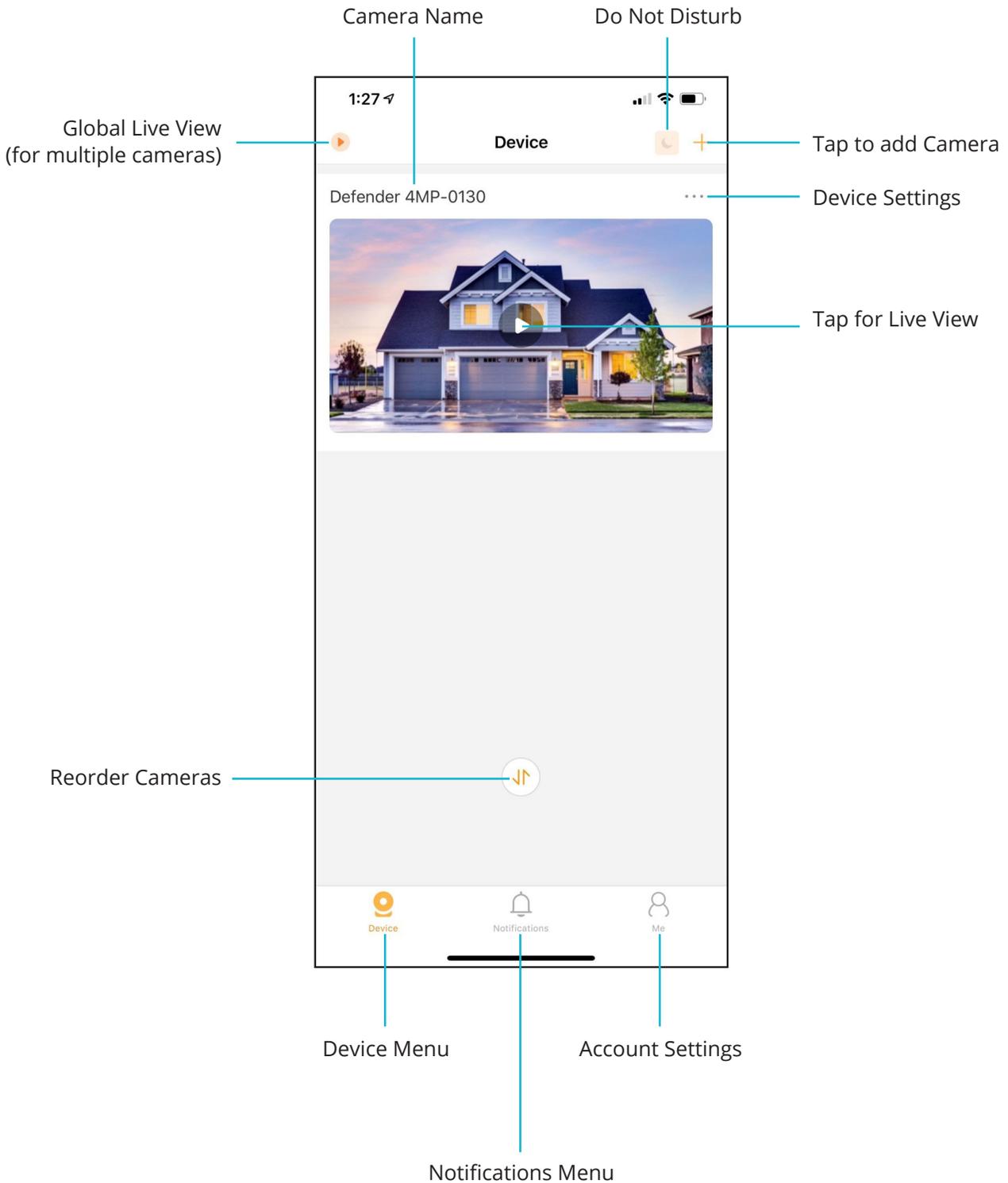


4. Use the screw-tightened adjustment to both rotate and lower/raise your camera.

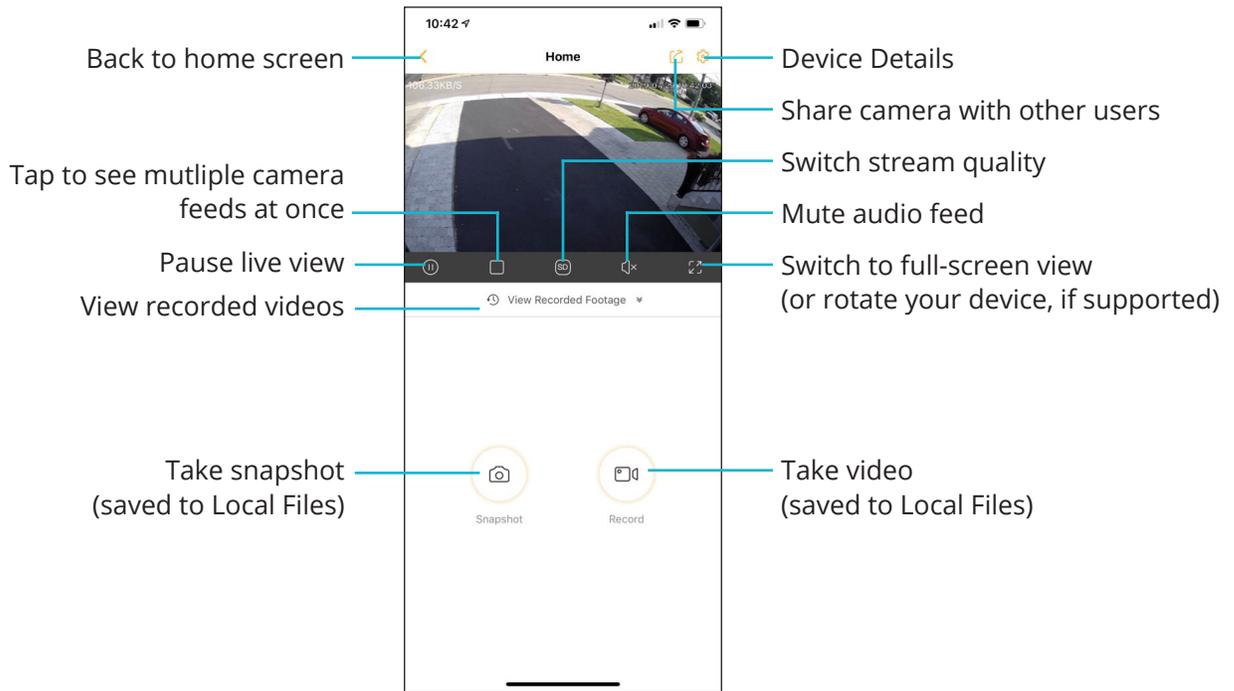


# USING THE APP

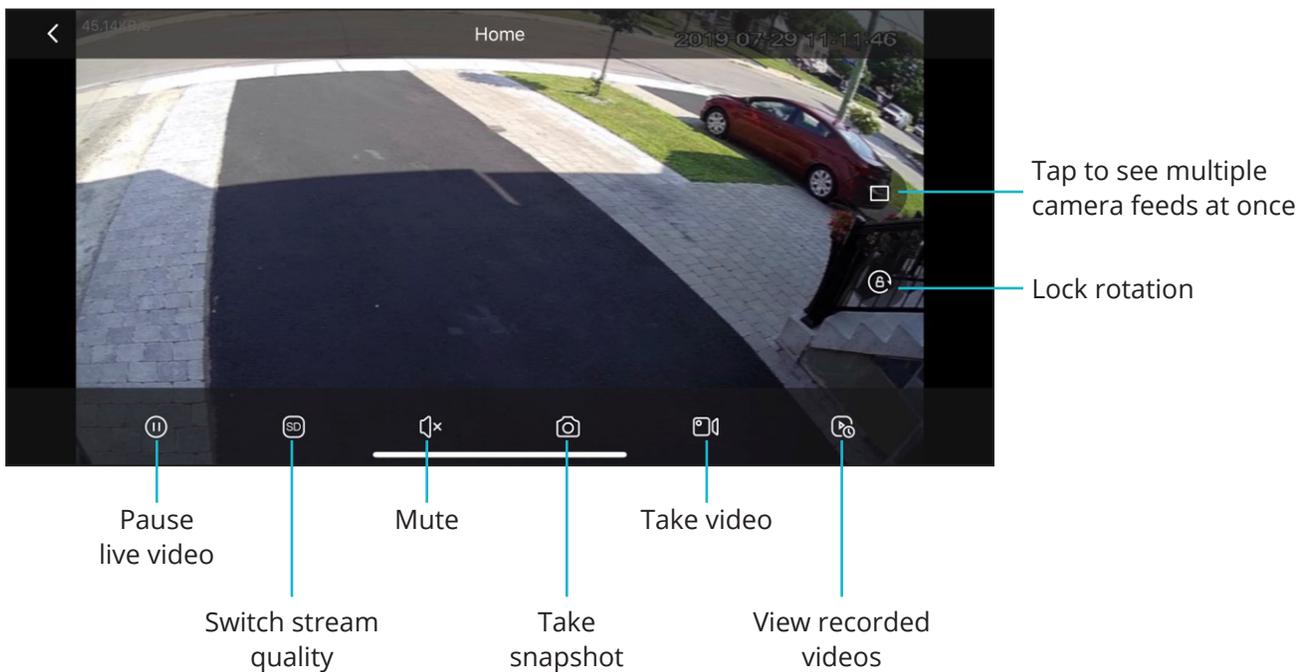
How do I navigate the home screen?



## How do I use Live View to stream live video?

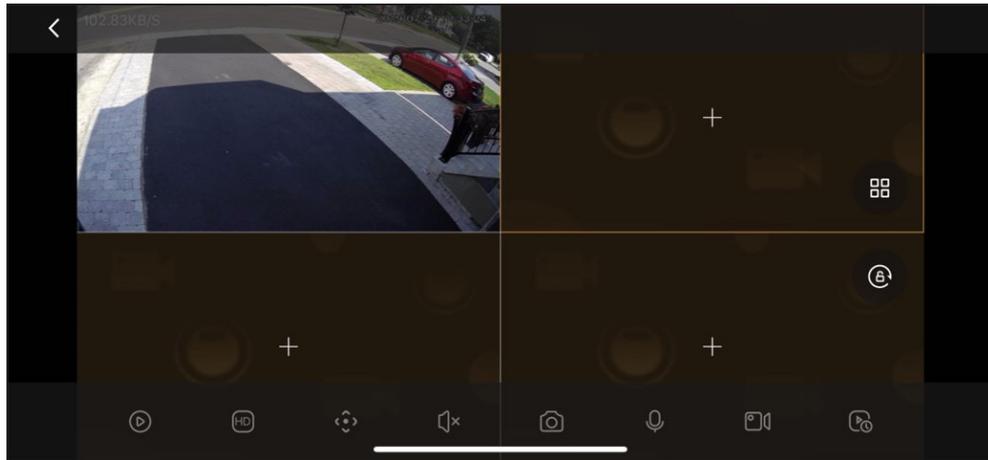


If you rotate your device (if supported), you can enter a full-screen view of your live feed:

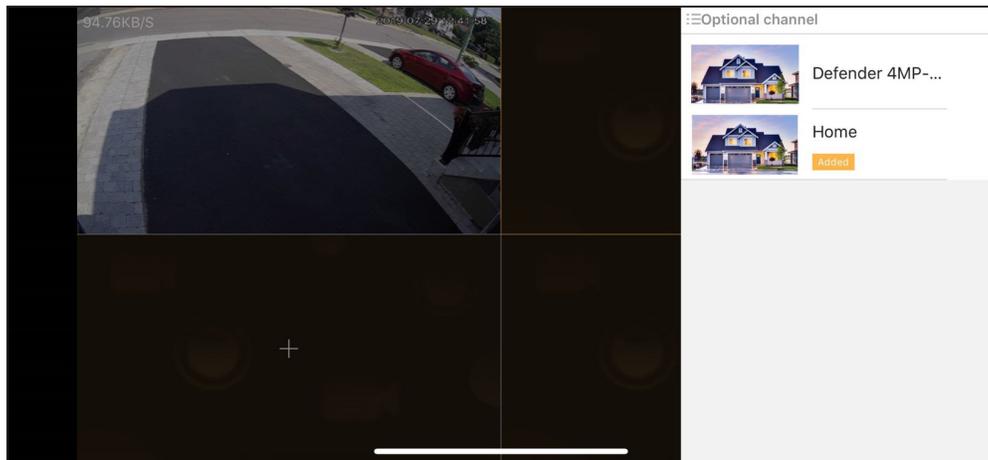


In either full screen landscape or regular portrait live view mode, tapping on  to enter the multiple camera feed mode will always start with the active camera feed. To add additional cameras to your screen:

1. Tap on the empty feed you'd like to assign to a particular camera.



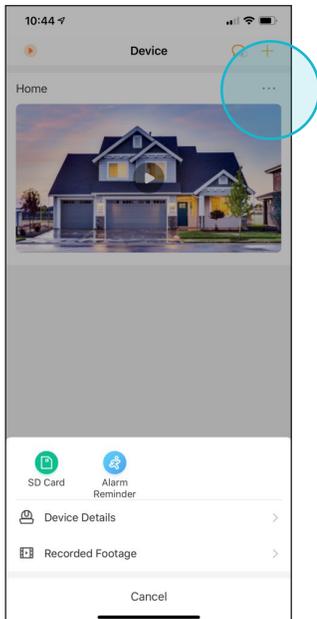
2. Tap again and then select the camera you'd to add to the screen.



## How do I setup motion notifications?

Motion notifications will be pushed to your device as motion is detected. If you tap on a notification within 60 seconds, you will see a recording of all activity up until the motion is detected. After 60 seconds, your camera will finish recording, and you can access the full recording with all motion (depending on the type, magnitude, and length of motion, it may take longer than 60 seconds).

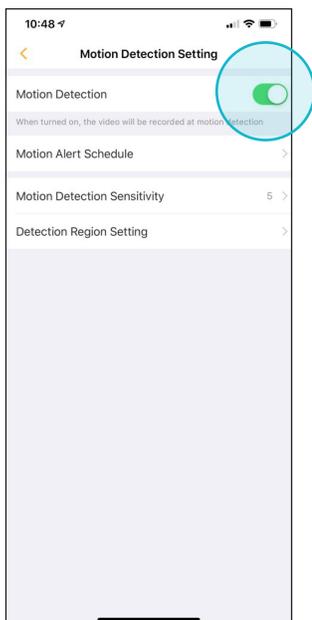
1. On the Device Main Menu, tap ... to access device settings.



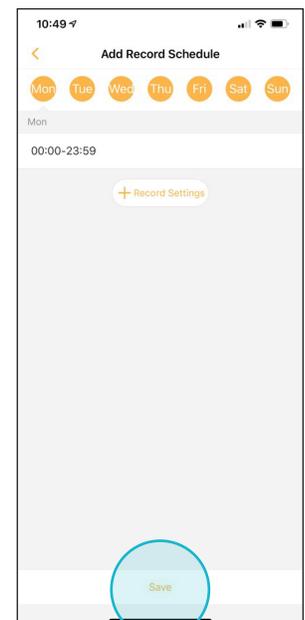
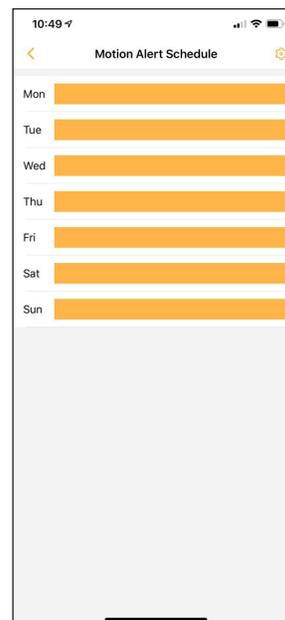
2. Then tap Motion Detection Setting.



3. Turn on Motion Detection. To set a schedule of when you'd like to receive notifications, continue to step 4.



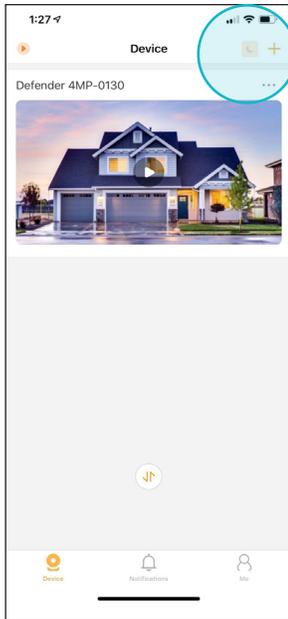
4. Tap Motion Alert Schedule, then tap on a day you'd like to set a specific time period. Then tap Save and repeat.



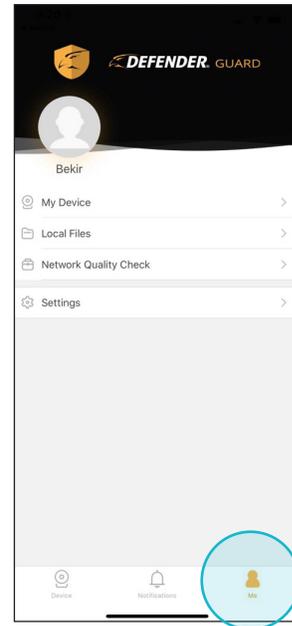
## How do I manage my notifications?

To disable all notifications from all cameras, you'll need to activate Do Not Disturb (DND) mode from the app home screen, or through Me if you'd like to set a notification schedule. When DND is disabled, your notifications will be pushed to your device according to the Notification Window you set.

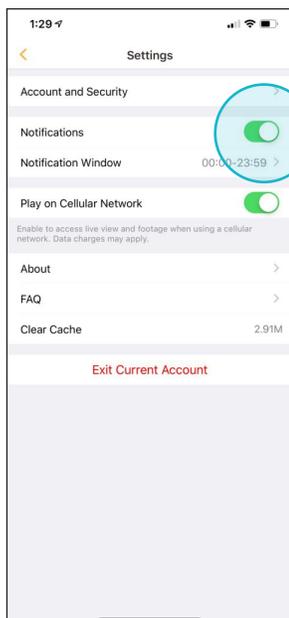
1. On the Device main menu, tap  to activate Do not Disturb mode. You will see a prompt when DND is active.



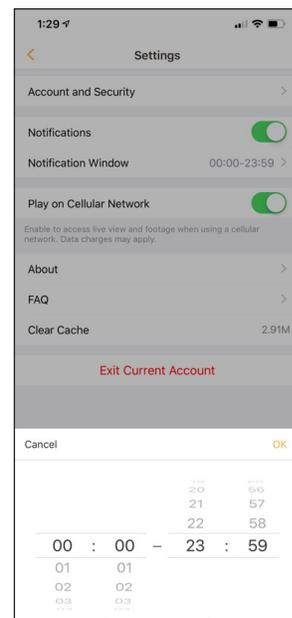
2. Then tap Motion Detection Setting.



3. Turn ON Notifications using the slider. If activated, you can set a notification schedule.



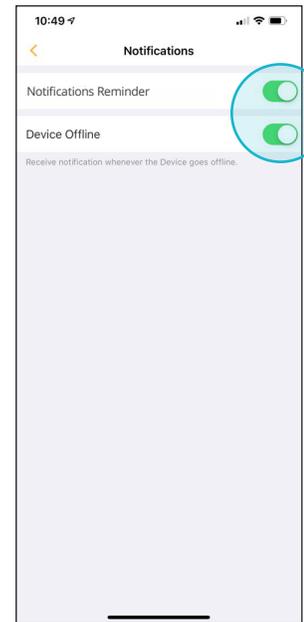
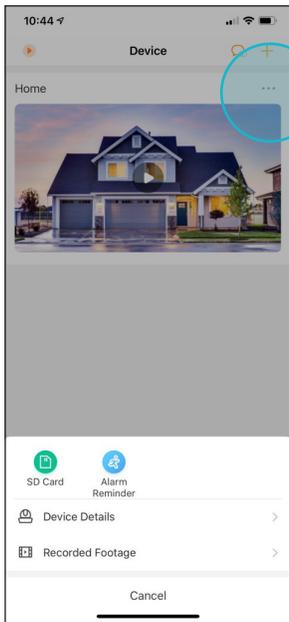
4. Tap Notification Window, and then set a window when you'd like to receive notifications.



## How do I disable notifications?

To disable notifications on specific cameras and not all paired cameras, follow these steps:

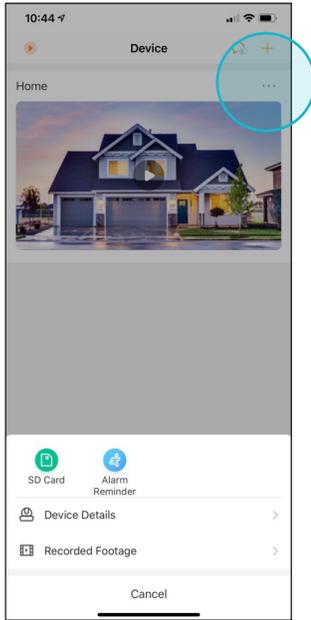
1. On the Device Main Menu, tap ... to access device settings.
2. Tap Notifications.
3. Turn ON Notifications to receive notification alerts. You can also turn on Device Offline to be notified when your camera is offline.



## How do I setup a motion region?

A motion region allows you to specify active regions for motion detection. Use this function to prevent motion notifications from passing cars, trees/plants, and very high traffic regions in the camera's field of view.

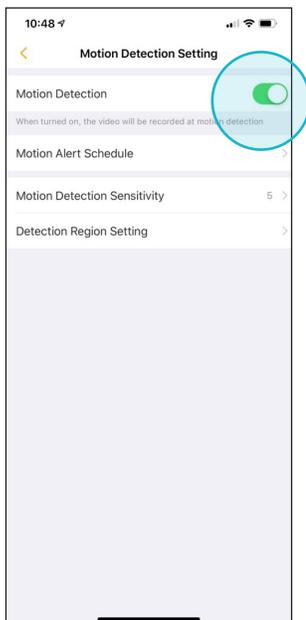
1. On the Device Main Menu, tap ... to access device settings.



2. Then tap Motion Detection Setting.

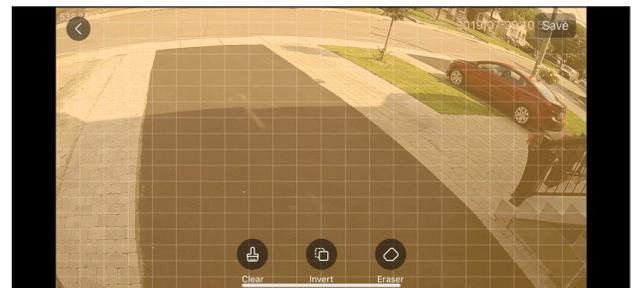


3. Ensure Motion Detection is active. Then, tap Detection Region Setting.



4. By default, the entire orange selection is active. Tap Clear, then by either dragging or tapping individual squares, specify your region.

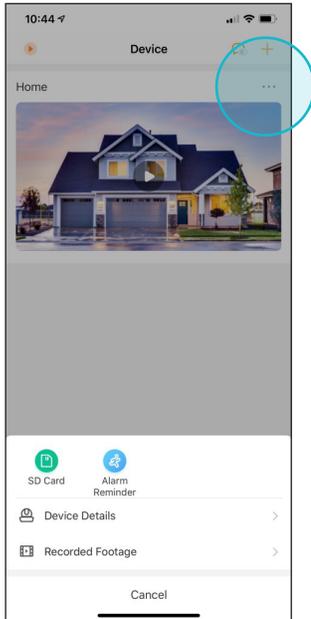
Then tap Save.



## How do I setup continuous recording?

With continuous recording, your Defender Guard camera will store an uninterrupted video record to your SD card. This option will consume more storage space on your SD card and will overwrite older video footage once storage is full.

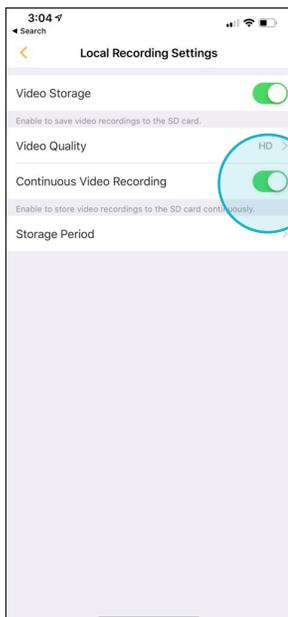
1. On the Device Main Menu, tap ... to access device settings.



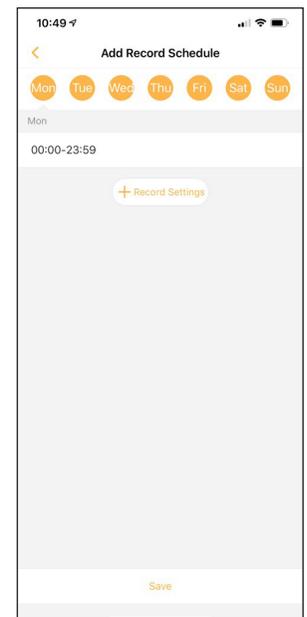
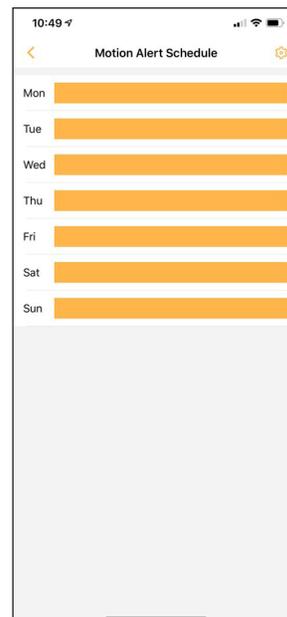
2. Tap Local Recording Settings.



3. Ensure Video Storage is On for recordings to be saved to the SD card. Then turn On Continuous Video Recording.



4. Tap Storage Period to set a schedule for when continuous recordings should be made. Tap on a day to add daily recording time periods.

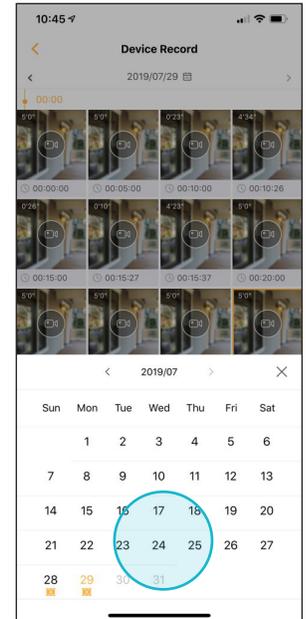
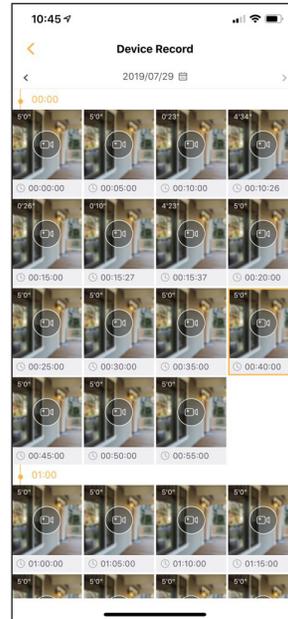
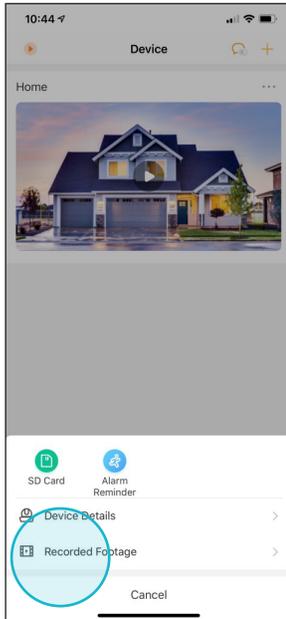


## How do I view and share recordings?

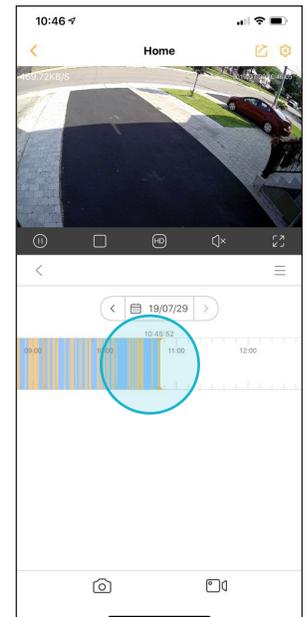
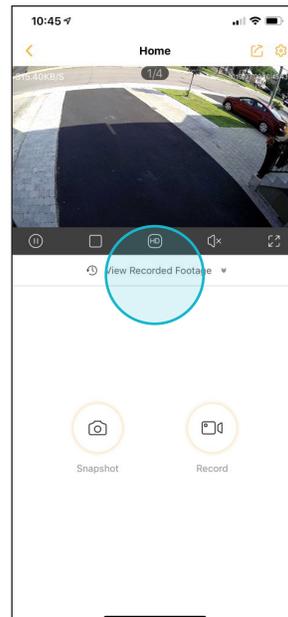
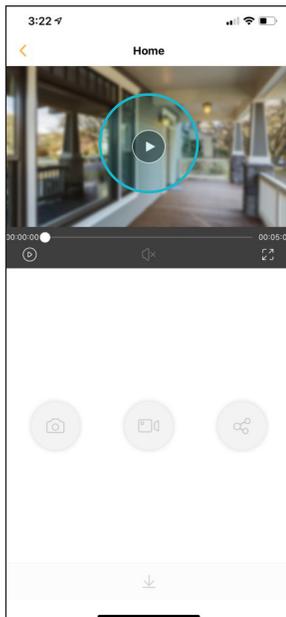
Recordings are saved to your camera's SD card. You can stream recordings to view them, but you will need to take snapshots or videos of the recordings to share them or save them to your device.

### To view your recordings:

1. On the Device Main Menu, tap **...** to access device settings. Then tap Recorded Footage.
2. Tap on any of the recording events to view them. Scroll for events during a day, or tap on the date for other days.

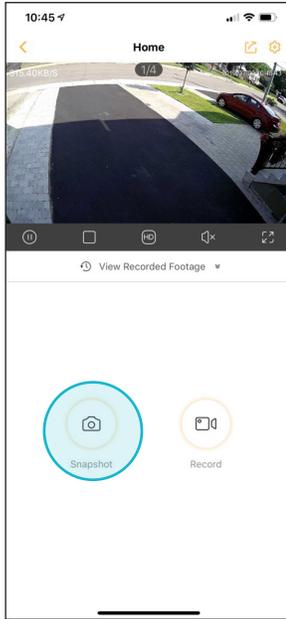


3. Once in a recording, tap play to begin streaming. You can rotate your device to enter full screen (if supported).
4. Alternatively, from the Live View screen, tap View Recorded Footage to see a timeline of all recorded events. Drag the timeline reel to scroll events.

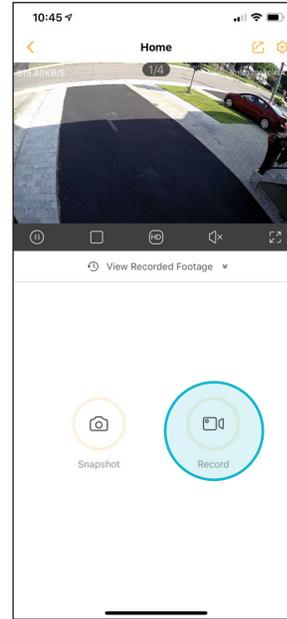


**To save parts of your recordings or live stream via snapshots or video, follow these steps:**

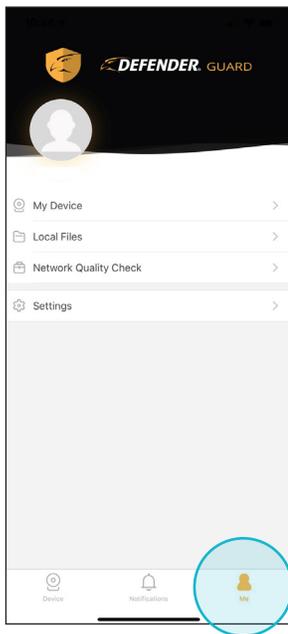
1. While viewing a recording, tap either the snapshot  or video  buttons to save photos/videos to your device. Tap  again to stop recording.



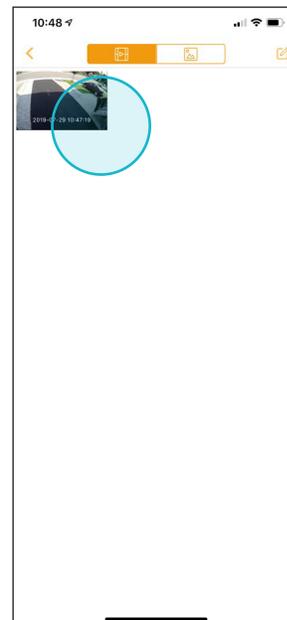
2. If you are in Live View, you can tap the same buttons. Tap  again to stop recording.



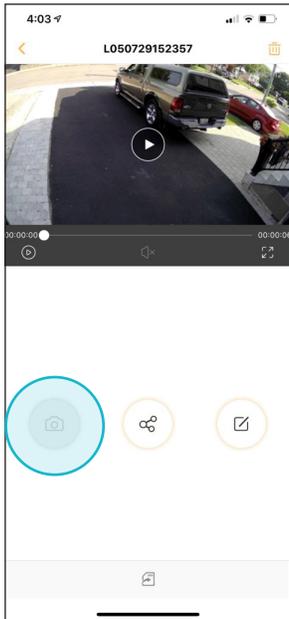
3. These recordings/pictures are stored in Local Files. Go to Me, then tap Local Files.



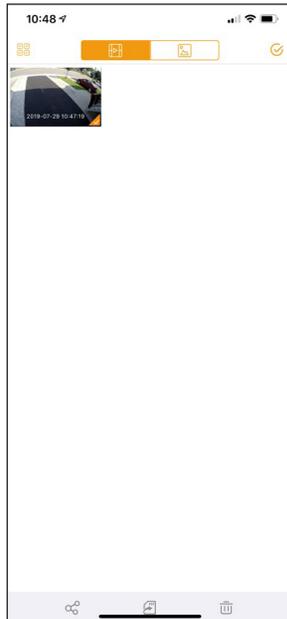
4. Toggle between photos and videos using   Tap on an event to view the recording or picture.



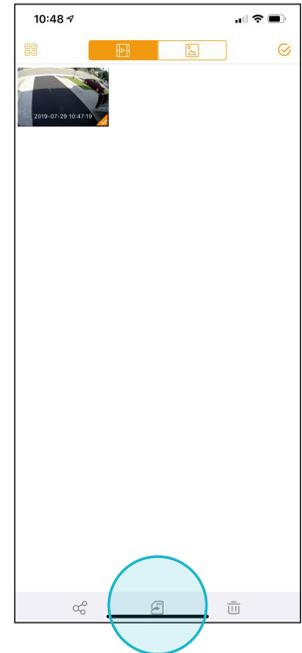
5. Share , rename , delete , or save  items to your phone from this screen.



6. If you would like share, delete, or save multiple items at once, tap  and then select all items.



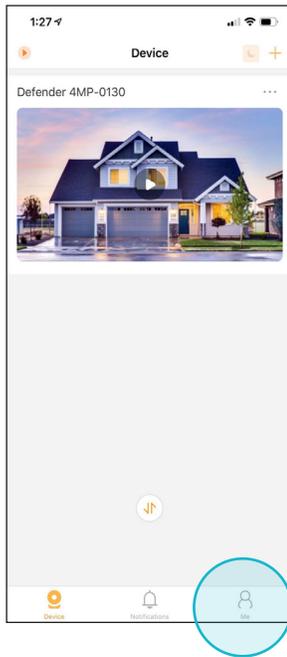
7. Using the options at the bottom of the screen, you can delete, share, or save all selected items.



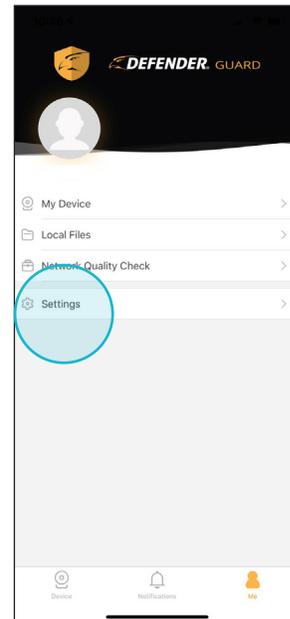
# SETTINGS AND TROUBLESHOOTING

How do I change my account password or delete my account?

1. On the Device main menu, tap Me.



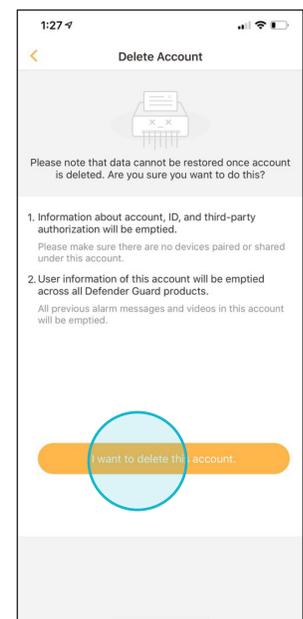
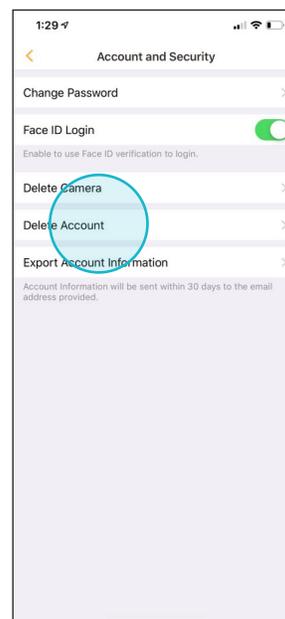
2. Tap Settings.



3. Tap Account and Security, then Change Password.



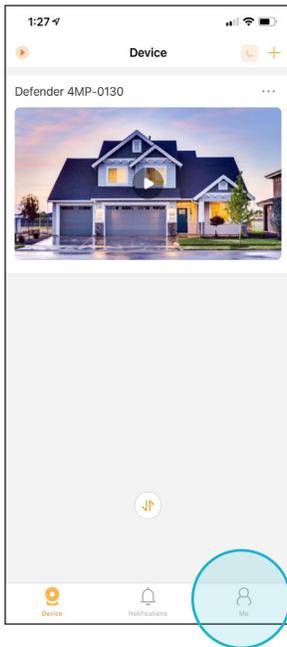
4. If you wish to delete your account permanently, tap Delete Account and confirm by tapping "I want to delete this account."



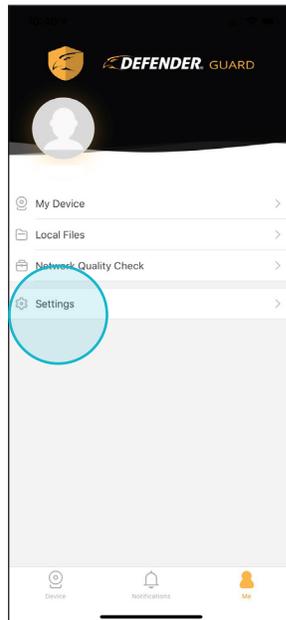
## How I log out of my current account?

You cannot log into the same account from multiple devices, for security reasons. If you would like to share your camera across multiple devices, you will need to share the device. Logging into your account from different devices will automatically log you out of inactive sessions.

1. On the Device main menu, tap Me



2. Tap Settings.



3. Tap Exit Current Account of your current account.



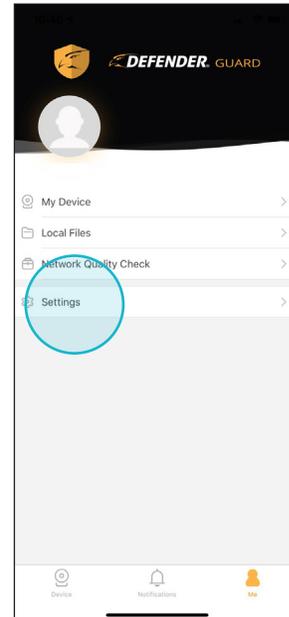
## How do I use FaceID, TouchID, or biometrics to log in?

Biometric login is available whenever you'd like to log in after the app has been inactive for a long time or the app has been force quit and reopened.

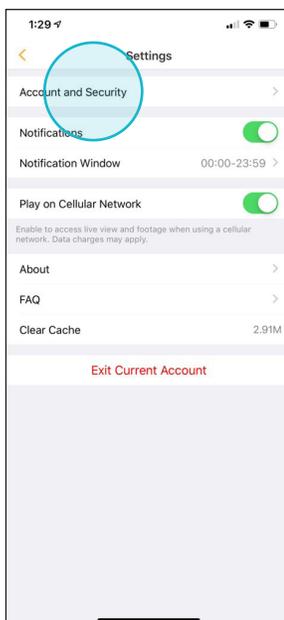
1. On the Device main menu, tap Me



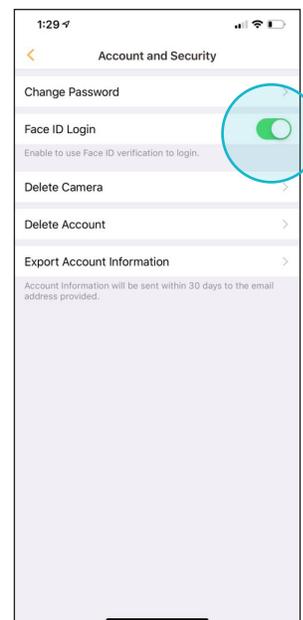
2. Tap Settings.



3. Tap Account and Security.



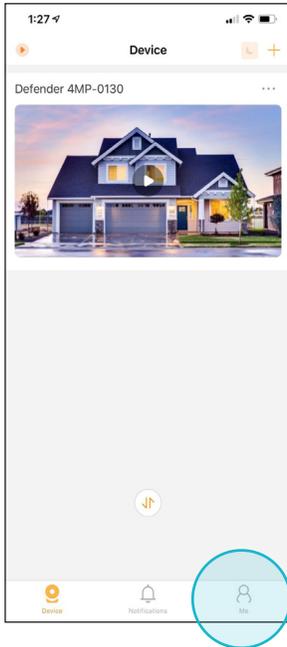
4. Tap to turn ON FaceID/Biometric/TouchID login.



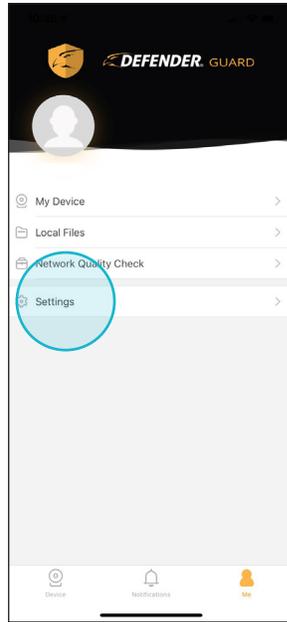
## How do I enable streaming over cellular connection?

**NOTE:** Streaming over cellular connection will consume large amounts of data from your data plan due to the nature of streaming.

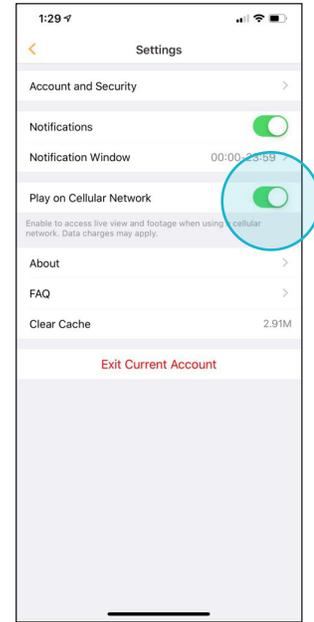
1. On the Device main menu, tap Me



2. Tap Settings.



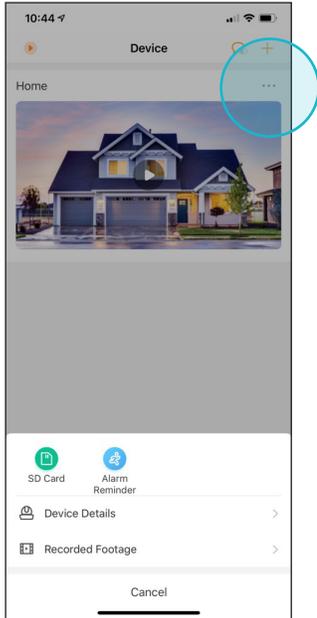
3. Tap Exit Current Account of your current account.



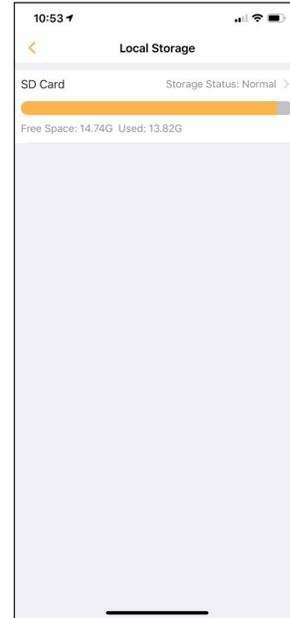
## How do I format my SD card?

Formatting your SD card may be necessary at times when you would like to free up space, you receive an error indicating the SD card may be corrupted, or when swapping SD cards and you'd like to ensure personal data is not stored on the card.

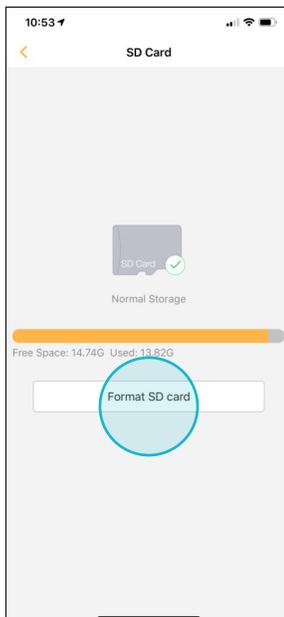
1. On the Device Main Menu, tap ... to access device settings. Then tap SD Card.



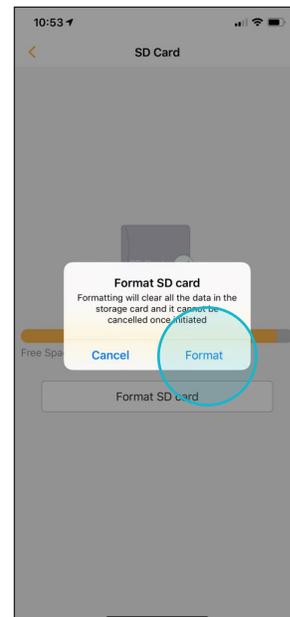
2. Tap on the SD card. You can check storage level from this page.



3. Tap Format SD Card.



4. Confirm Format SD card by tapping Format.



## How do I swap/remove my SD card or reset my camera?

Occasionally, you will need to reset your camera to fix issues with connectivity, consistent crashing, or if pairing freezes/does not work. Resetting your camera will not delete files on the SD card, but it will format your camera and its settings to factory default.

1. Unscrew the Philips screws on the lower cover to access the SD card and reset button.
2. Remove the lower cover. If you'd like, push down on the SD card to eject it. Then carefully remove it, or swap it. Push the card back in until a click is heard.



3. To reset the camera, press and hold the reset button for 15 seconds.
4. Ensure that the LED is flashing green before attempting to add your camera again.



LED Colour	Flashing?	Meaning
	No	Initializing, please wait.
	Yes	Camera not connected or internal error. If this persists, reset again.
	No	Camera is connected and online
	Yes	Camera is ready to connect; use app to begin pairing.

# TECHNICAL SPECIFICATIONS

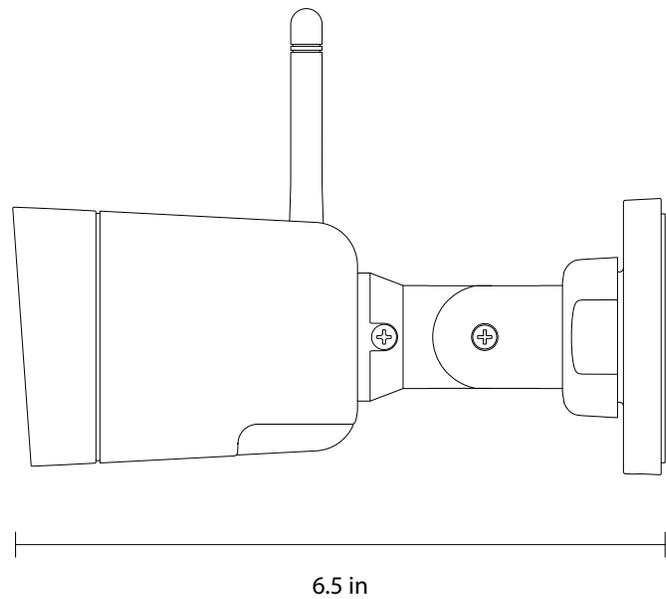
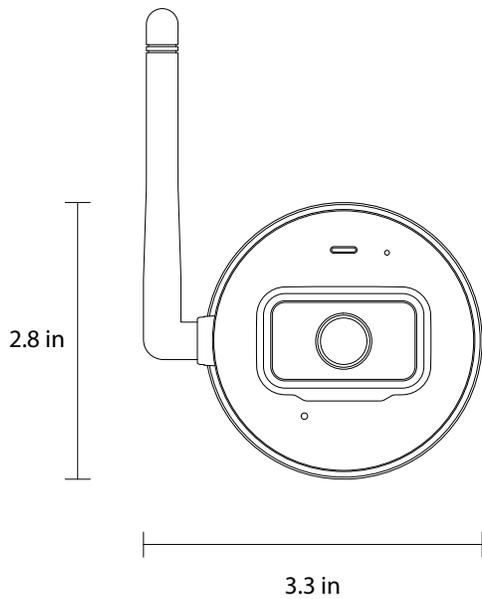


IMAGE SENSOR ..... 4.0MP, 1/3" CMOS  
 HOUSING ..... Plastic and metal  
 EFFECTIVE PIXELS ..... 2560\*1440  
 WI-FI..... IEEE802.11 b/g/n (2.4 GHz)  
 RANGE ..... 150ft Open Field  
 VIDEO FRAME RATE ..... Up to 4MP @ 30fps  
 LENS ..... 2.8mm  
 SYNCHRONIZATION ..... Internal  
 MIN. ILLUMINATION ..... 1 LUX  
 VIDEO OUTPUT ..... H.265  
 IR CUT FILTER ..... Yes (Auto)  
 IR LED QUANTITY ..... 1

FIELD OF VIEW (FOV)..... 123o Diagonal  
 NIGHT VISION RANGE..... Up to 30M (100ft)  
 POWER SUPPLY ..... DC 12V, 1.0A  
 MICROPHONE..... Yes  
 SD CARD ..... 16GB Included  
 SD CARD RECORDING..... Up to 128GB Compatible  
 POWER CONSUMPTION ..... Max 4.8W  
 WORKING TEMPERATURE ..... -30°C ~ +50°C  
 WORKING HUMIDITY ..... <95%  
 INGRESS PROTECTION ..... IP67  
 DIMENSIONS (LxWxH) ..... 6.5 x 3.3 x 2.8 Inches  
 WEIGHT ..... 0.57 lb (260 g)

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