



QUICK START GUIDE

ATTENTION

For Returns or Support you **MUST** contact
DefenderCameras.com/Support



ACTIVATE YOUR WARRANTY



PROTECT

Covered for the unexpected



SUPPORT

Receive videos, tips & updates for your product



VALUE

Exclusive access to special offers



Open your camera & scan this QR code,
or visit: **DefenderCameras.com/Warranty**

WHAT YOU'LL NEED

- TV or Monitor
- Hammer Drill & Appropriate Bit
- Phillips (#2) Screwdriver
- Ladder (*if required*)
- Cable Protectors (*if required*)

WHAT'S INCLUDED

4 CHANNEL MODEL: 4K1T4B4V2

- 1 x DVR with 1TB HDD
- 4 x 4K Analog HD Cameras
- 4 x 60ft BNC Cables
- 1 x Camera Power Adapter
- 1 x 4-Way Power Splitter
- 1 x HDMI Cable
- 1 x Ethernet Cable
- 1 x DVR Power Supply
- 1 x USB Mouse
- 4 x Camera Mounting Hardware
- 1 x Quick Start Guide
- 1 x Window Warning Sticker
- 1 x Drilling Template

8 CHANNEL MODEL: 4K2T8B8V2

- 1 x DVR with 1TB HDD
- 8 x 4K Analog HD Cameras
- 8 x 60ft BNC Cables
- 2 x Camera Power Adapter
- 2 x 4-Way Power Splitter
- 1 x HDMI Cable
- 1 x Ethernet Cable
- 1 x DVR Power Supply
- 1 x USB Mouse
- 8 x Camera Mounting Hardware
- 1 x Quick Start Guide
- 1 x Window Warning Sticker
- 1 x Drilling Template

FCC / IC STATEMENT



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC STATEMENT / DÉCLARATION IC:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

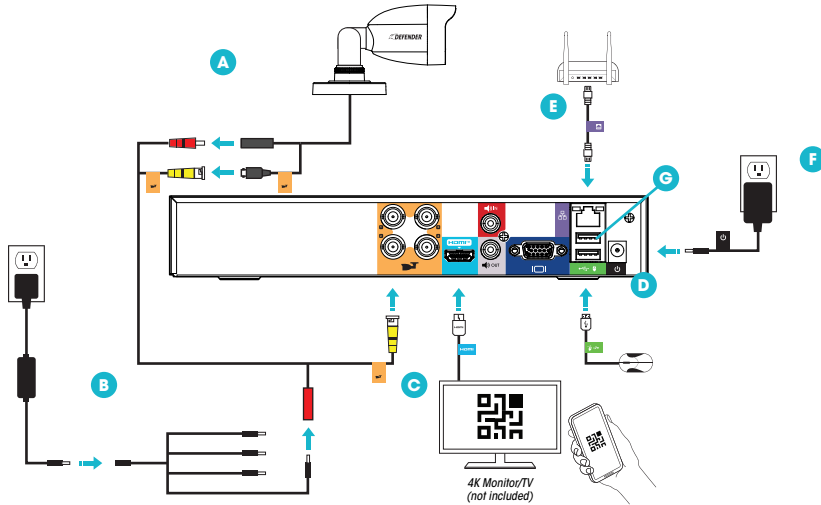
This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

DVR SETUP

PLEASE READ FIRST!

You must connect the DVR to a monitor or TV to complete the setup. We recommend verifying all accessories and completing the DVR setup before installing the cameras. For the best viewing experience, we recommend using a 4K TV or monitor to view your footage.



1. Connect the monitor, USB mouse, cameras, modem/router, and power supply to the DVR based on the color and image labels:

A Camera and BNC Cable: Connect the red and yellow BNC connectors to the camera. Attach the second yellow connector to the DVR. **Tip: When connecting the BNC connection, twist right to lock the metal connection in place.**

B Camera Power: Connect the second red power connector from the BNC cable to the 4-way splitter and power supply. Connect the 4-way power splitter and the camera power adapter to a power outlet. ***Repeat for 8 CH setup.**

C Monitor: Connect the TV or Monitor to the DVR with the HDMI cable.

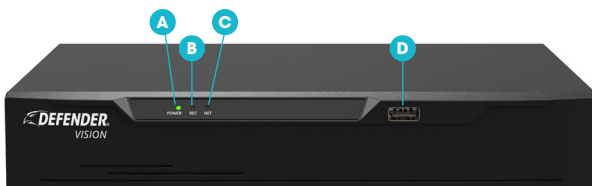
D USB Mouse: Connect the USB mouse to the DVR.

E Modem/Router: Connect the Ethernet cable to the DVR and modem/router. **(NOTE: Wired Ethernet connection required. The DVR cannot connect to the modem/router via Wi-Fi)**

F DVR Power: Connect the DVR power cable to a power outlet.

G USB Port

2. Follow the Activation and Setup Wizard on the monitor/TV to set up the DVR.



A Power LED: Indicates the DVR is ON.

B Record LED: Data is being read or written to HDD.

C Network LED: DVR is connected to a network.

D USB Port

DVR ACTIVATION

DEFENDER VISION

DEFENDER VISION

DEFENDER VISION

DEFENDER VISION

ADMIN PASSWORD

- Select your language.
- Create a new password – **PLEASE REMEMBER YOUR PASSWORD! Defender cannot access the DVR remotely to reset your password!**
- Confirm the password.

DEFENDER VISION

DEFENDER VISION

DEFENDER VISION

DEFENDER VISION

UNLOCK PATTERN

Draw an unlock pattern to access your system in place of a password. If you do not wish to create a pattern, skip this step.

- Click & drag to draw a pattern – you must connect at least 4 dots.
- **Re-enter** the unlock pattern to confirm.
- Click **“OK”**.

DEFENDER VISION

DEFENDER VISION

DEFENDER VISION

DEFENDER VISION

PASSWORD RECOVERY

- Enter your email address and click **“OK”**.

Please Note: We do not recommend skipping this step.

DEFENDER VISION

DEFENDER VISION

DEFENDER VISION

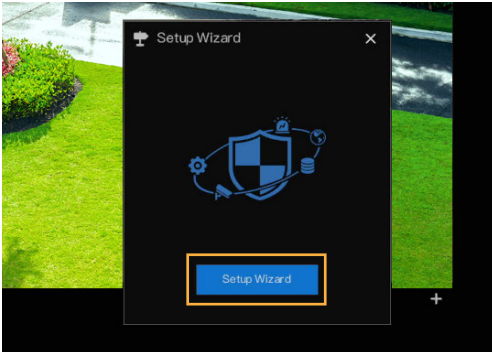
DEFENDER VISION

SECURITY QUESTIONS

Security questions are used to reset your password if you forget your password.

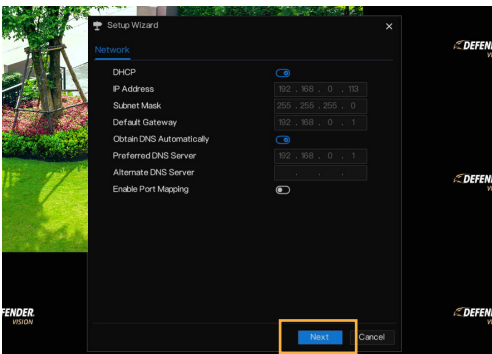
- Select 3 security questions and enter your answers.
- **REMEMBER YOUR ANSWERS! We recommend writing your questions and answers down and keeping them in a safe place for future reference.**

DVR SETUP WIZARD



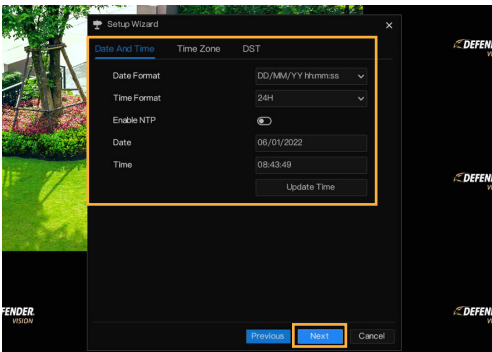
SETUP WIZARD

- Click **“Setup Wizard”** to start your DVR setup.



NETWORK

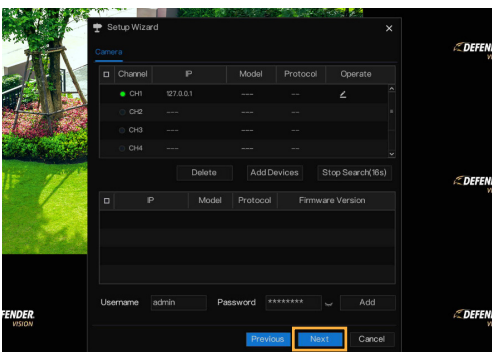
- If you have a static IP address, make all necessary changes otherwise, no change is required.
- Click **“Next”**.



DATE AND TIME

- Select your Date and Time format.
- When NTP (Network Time Protocol) is enabled, your DVR system will automatically synchronize your date and time to your selected time zone. To manually enter your date and time, make sure Enable NTP is deselected.
- Select your Time Zone.
- Schedule your DST (Day Light Savings). This is optional.
- Click **“Next”**.

Please Note: We recommend making no change to the NTP Server or Sync Time Frequency



CAMERA

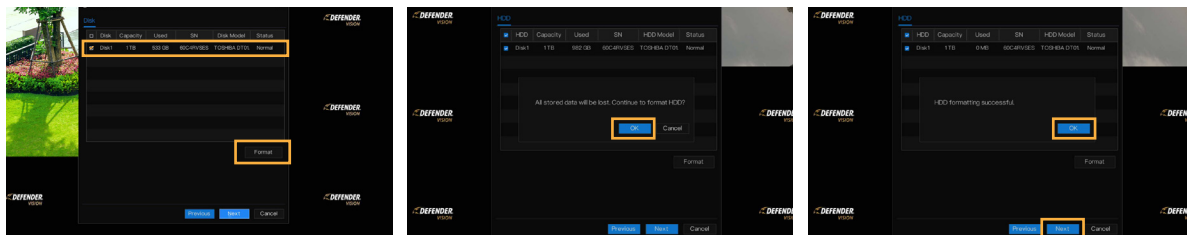
- Displays the type of camera that can be connected to the DVR.
- No changes are necessary on this screen.
- Click **“Next”**.

DISK

Formatting your Hard Drive helps to enhance the performance of your DVR. We recommend formatting your disk now.

Please Note: When formatting your DVR after the Startup Wizard, all recorded footage will be deleted.

- To format your Hard Drive, Select your Disk > Click **“Format”**
- Click **“OK”** to **“All stored data will be lost. Continue to format HDD?”**
- Wait for the hard drive to finalize formatting. This may take a few moments. Do not navigate away from the screen.
- Click **“OK”**.
- Click **“Next”**.



SETTING UP REMOTE VIEWING

SETUP WIZARD – MOBILE ACCESS

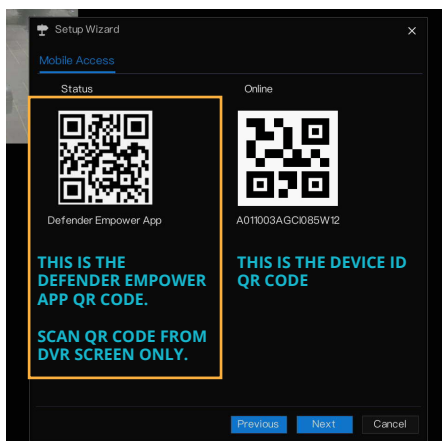
In this section, you will connect the DVR to the Defender Empower App to gain mobile App access for remote viewing. In order to use the Defender Empower App, the DVR must be connected to the Internet via an Ethernet cable.

- Open your camera and scan the **DEFENDER EMPOWER APP** QR Code on your DVR Screen to download the App for remote access viewing. If you are unable to scan the QR code search **Defender Empower** in the App Store or the Google Play Store.

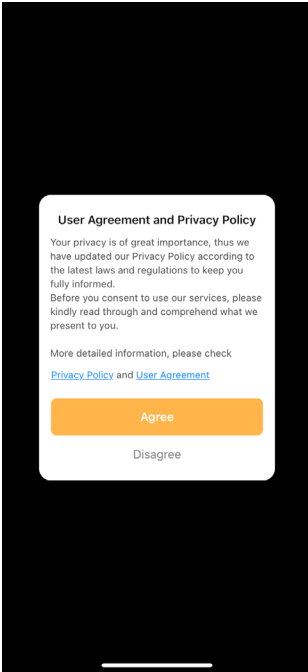
Please Note: STAY ON THIS SCREEN. The Device ID QR Code can only be scanned within the Defender Empower App. Continue to the next section “Account Setup” and follow the steps to create an account. You will be instructed to scan the Device ID QR code in the upcoming steps.



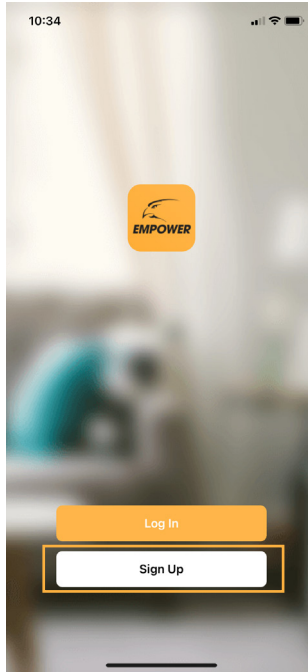
- An email account is required for verification.



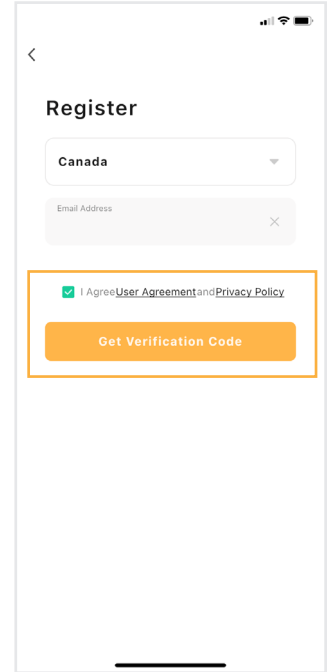
ACCOUNT SETUP



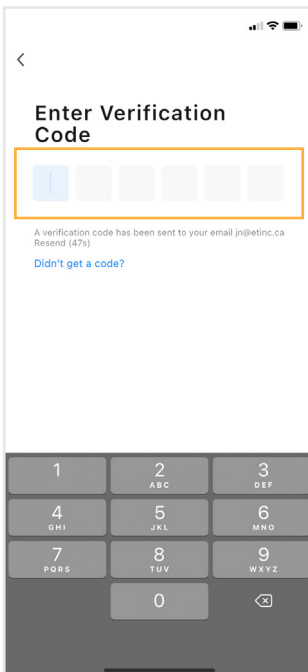
Review and agree to the User Agreement and Privacy Policy.



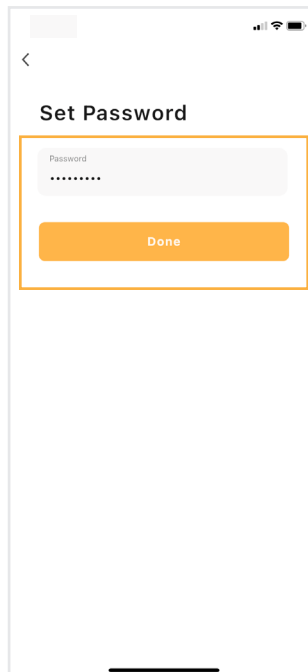
Tap 'Sign Up' to register your account.



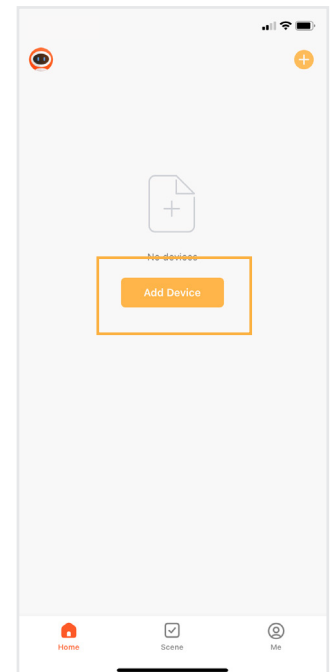
Select your region, enter your email address, and agree to User Agreement and Privacy Policy. Tap 'Get Verification Code'.



Enter the Verification Code sent to your email address. This may take **up to 5 minutes** to receive.



Create a new password and tap 'Done'.



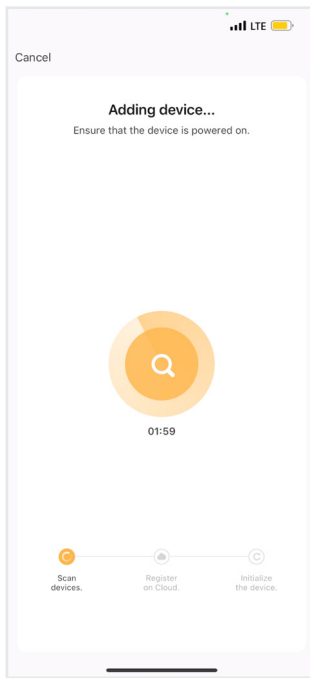
Tap 'Add Device'.



Wait for your App to discover nearby devices. **Please Note: Do not add your device manually.**

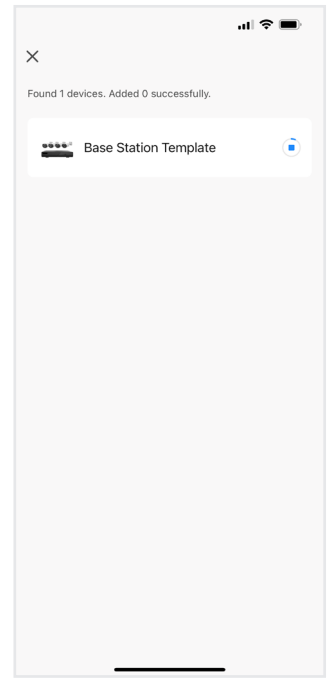
Option 1: Tap the Scan icon [-] located on the top right.

Option 2: Tap 'Add' to discovering devices.



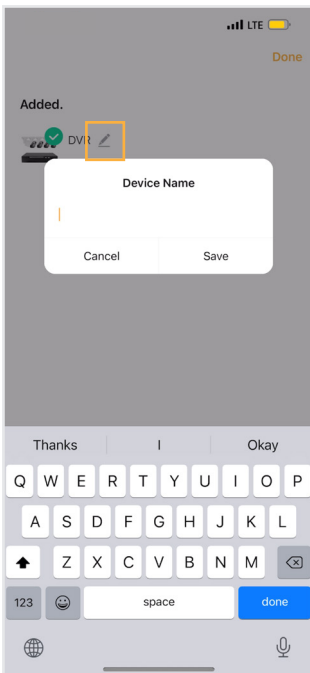
Option 1:


Scan the 'Device ID' QR code located on the Setup Wizard - Mobile Access screen of your DVR.

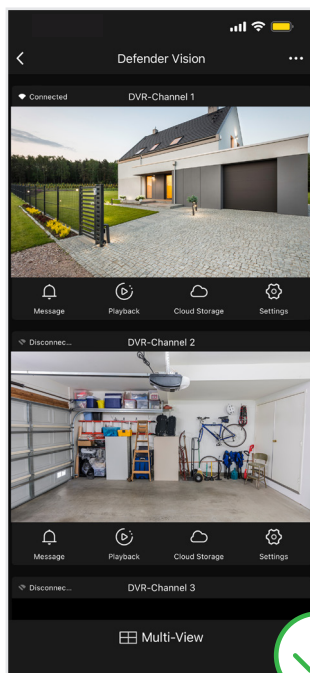


Option 2:

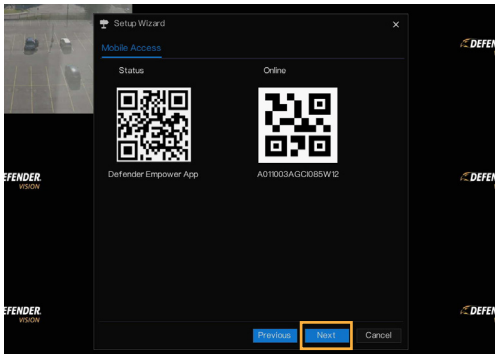
Wait for the Adding Device process to finish. **Do not leave this screen.** Once your device is successfully added, tap 'Next'.



Select the edit icon  to change your device name. Enter a Device Name and tap 'Done'.



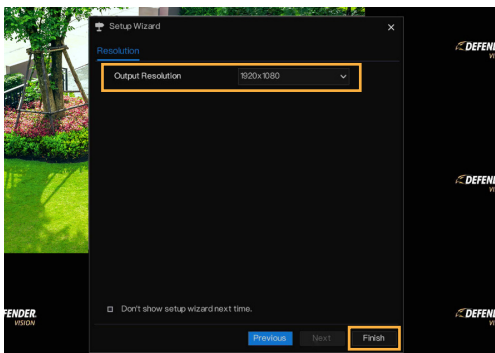
The Mobile App setup is complete. Return to the DVR to finalize setup.



DVR SETUP CONTINUED

- Now that you have completed setting up your Defender Empower App, click **“Next”**.

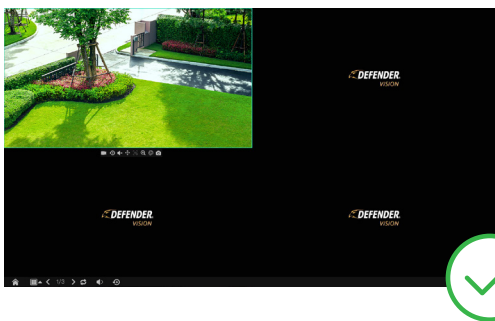
DVR SETUP WIZARD CONTINUED



OUTPUT RESOLUTION

We recommend setting the output resolution to match the resolution of the monitor/TV.

- Select the Output Resolution
- Click **“Finish”**.



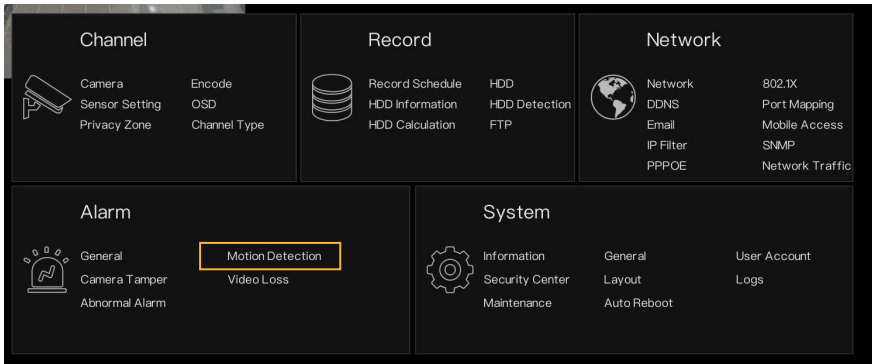
Success! Your DVR is ready for use.

SETTING UP NOTIFICATIONS

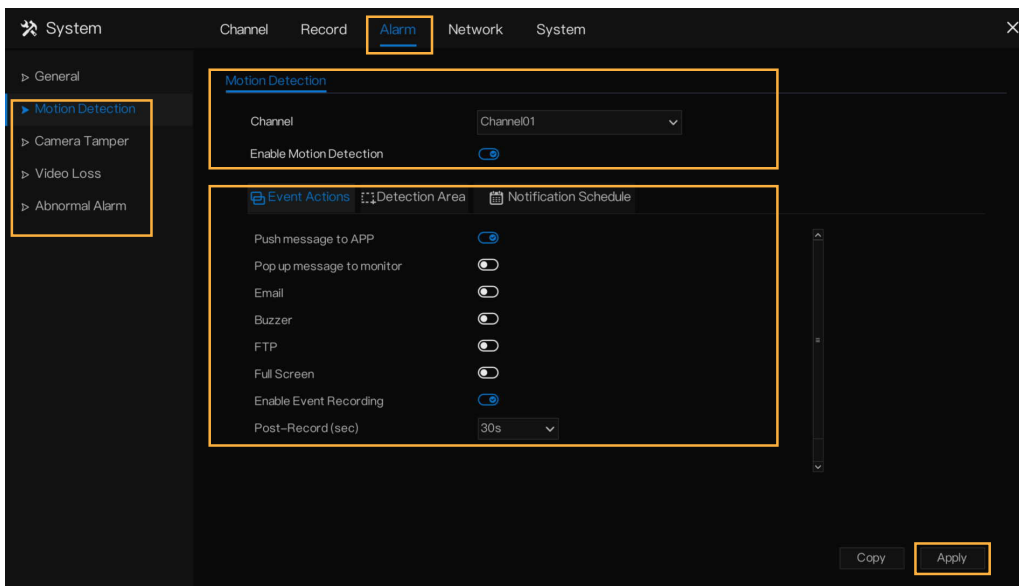
ALARM NOTIFICATIONS

Please Note: Motion Detection App Notifications are defaulted On. Complete the steps below to customize your preferences further.

- To access this setting, right click to view the Main Menu > Select Motion Detection under Alarm.

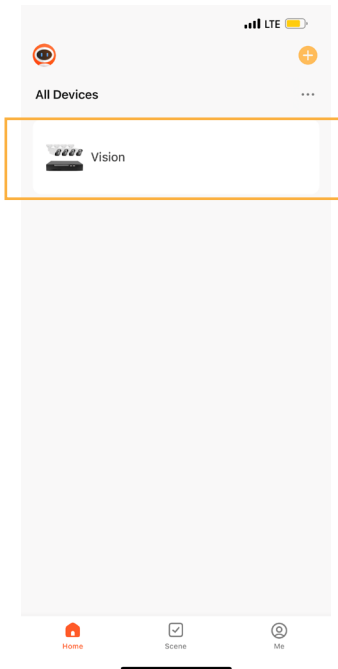


- Select the channel you wish to customize your notifications for. If you do not want to receive notifications, select the channel and deselect “Enable Motion Detection”.
- Select other methods of notifications under Event Actions.
- Select **“Apply”**.
- Repeat for each channel or to duplicate the notification settings for other channels, select **“Copy”** and apply to the desired channel(s). Select **“Ok”**.
- Enable other Alarm settings to your preference (Camera Tamper, Video Loss, Abnormal Alarm). Repeat for each channel or copy your settings to the desired channel(s).

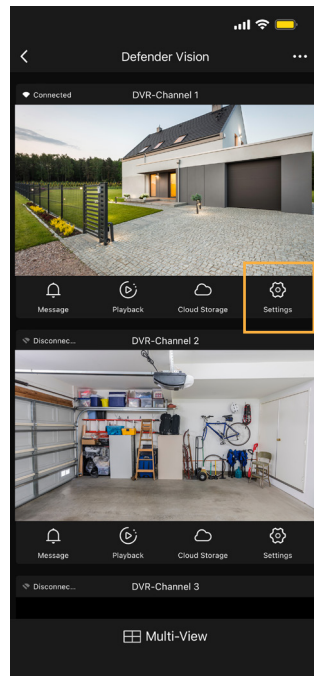


APP SETTING - MOTION DETECTION

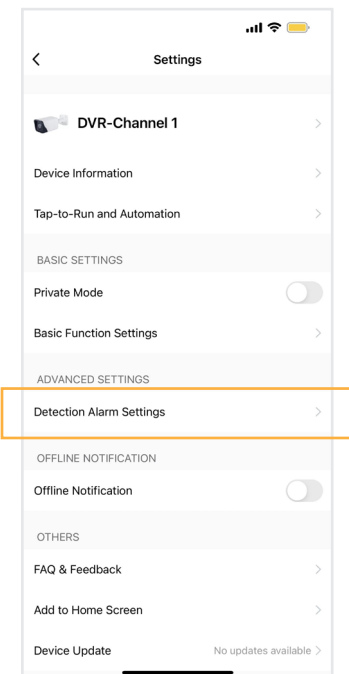
Please Note: Motion Detection settings MUST be enabled/changed in your DVR and in your Defender Empower App. Repeat for each channel.



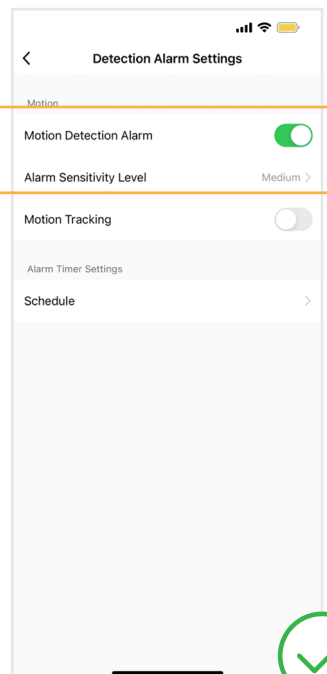
Open the App and select your device.



Tap Settings.



Tap Detection Alarm Settings.



Turn on Motion Detection Alarm and Select your Alarm Sensitivity Level. We recommend medium.

DETECTION AREA

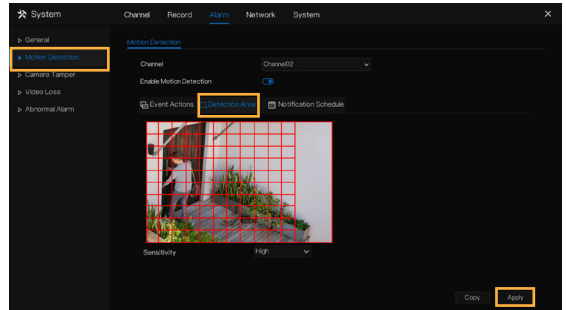
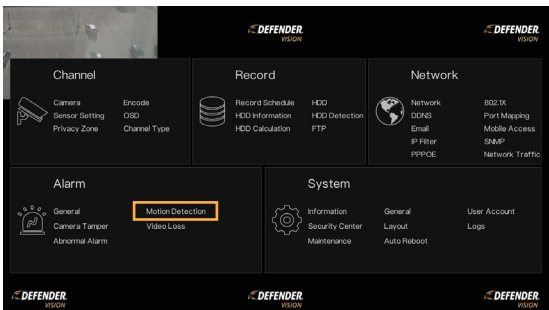
Please Note: This setting is only available when motion detection is selected in Motion Detection settings.

Detection region allows your system to notify you when motion is detected only in the selected regions. **If you wish to be notified of all motion in the cameras field of view, skip this step.**

- To access this setting, right click to view the Main Menu > Select Motion Detection under Alarm > Select Detection Area
- Select the channel you want to adjust the detection area for. Keep “Enable Motion Detection” selected.
- Left click and drag your mouse over the area to deselect the area you do not want to receive motion detection notification from.
- Select “Apply”.

Tip: To add an area back in, left click and drag over an unselected area.

- Repeat for each channel.



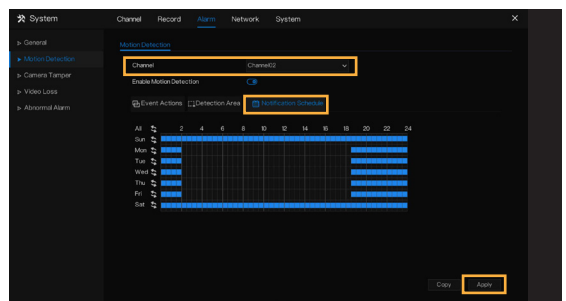
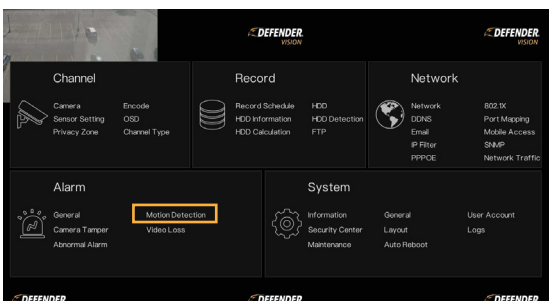
NOTIFICATION SCHEDULE

Please Note: This setting allows you to be notified when motion is detected during certain times of the day. If you wish to be notified of all motion in the cameras field of view/detection area at all times, skip this step.

- To access this setting, right click to view the Main Menu > Select Motion Detection under Alarm > Select Notification Schedule.
- Select the channel you want to create a notification schedule for. The default is set to be always notified.
- Left Click and drag over the time of day you do not want to receive notifications.
- Select “Apply”.

Tip: To add a time back in, left click and drag over an unselected time.

- Repeat for each channel or to duplicate the notification schedule setting for other channels, select “Copy” and apply to the desired channel(s). Select “OK”.

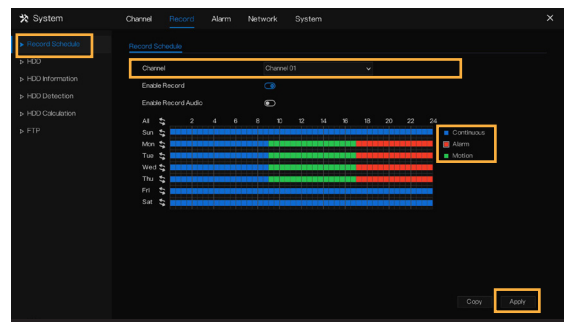
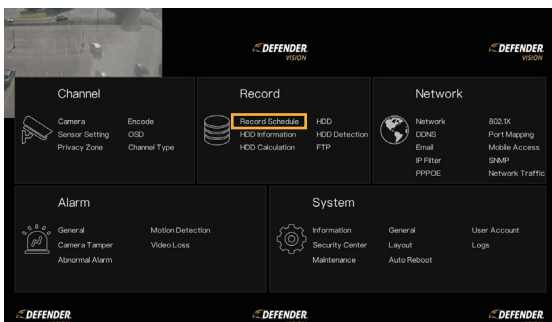


SET UP RECORDING SCHEDULE

This setting will allow you to customize your recording preference for each channel. You can record continuously, when motion is detected or a combination of the two.

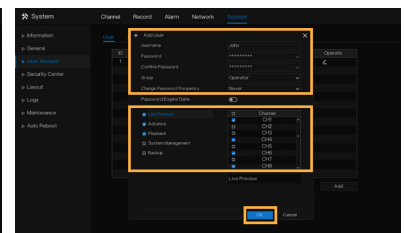
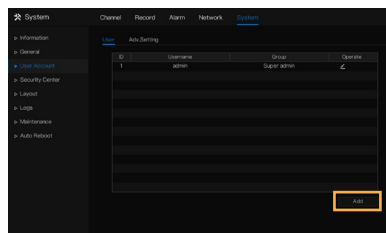
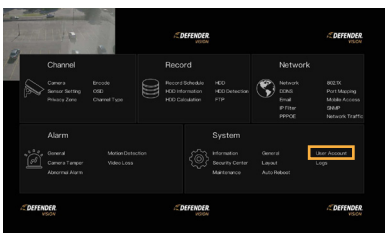
Please Note: By default, the DVR will record continuously (Blue). Any changes you make will overwrite this setting. To record continuously on all channels, skip this step.

- To access this setting, right-click to access the main menu > select Record Schedule under Record
- Select the channel you wish to edit the recording schedule for.
- Select your preferred recording type (Continuous, Alarm or Motion).
- Hold and drag your mouse over the time and day you wish to record using your desired recording type. To edit or delete a setting, drag over the time again.
- Click **"Apply"**.
- Repeat for each channel(s). To duplicate the recording schedule for other channels, select **"Copy"** and apply to the desired channel(s). Select **"OK"**.
- Click the **"X"** on the top right corner to exit. Left click to exit the main menu and return to the live view.



Please Note: To enable record audio, you must use an external microphone. This function is not supported by Defender.

ADD ADDITIONAL USERS



To add additional users, right-click to access the main menu > Select User Account under System.

Click **"Add"**.

Create a username and password.

Confirm the password.

Select which controls the user will have access to and which channel(s).

Click **"OK"**.

LIVE-VIEW PANEL EXPLANATION

A Record

B Instant Playback

C Audio (Note: Must install an external microphone to use this feature)

D Advance (Note: some features are not supported)

E Zoom In

F Image

F Snapshot



G Home Button

H Camera View Layout

I Number of Cameras Connected

J Auto Sequence

K Playback

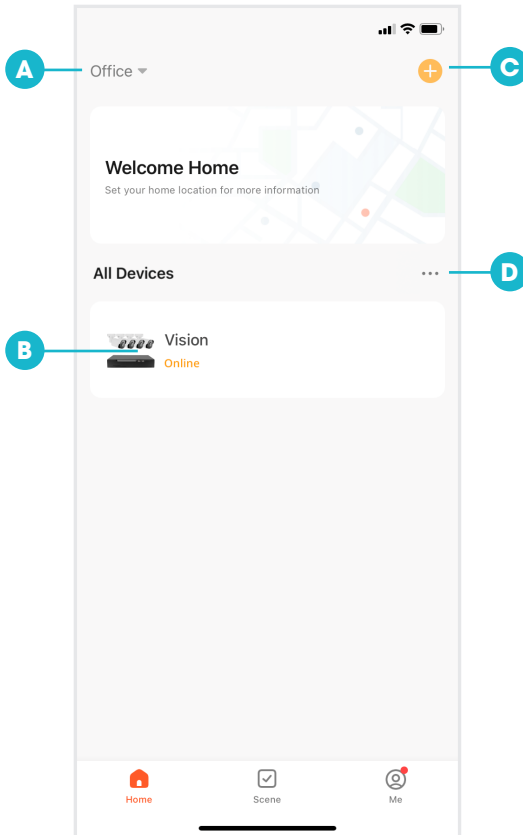
L System Information

USING THE APP

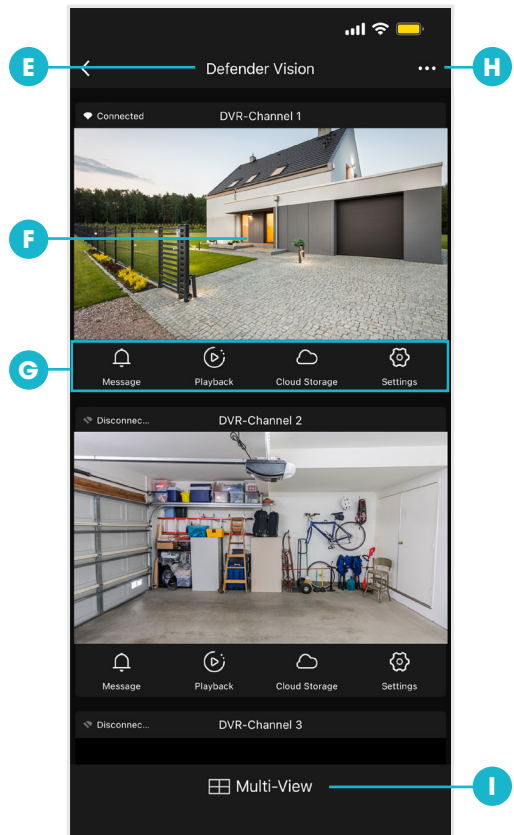
The Defender Empower App allows you to live and remote view, save and share footage, share App access and receive customized notifications. Please note that other App functions may not be supported.

Please Note: App screens below are for iOS. For all Android users, the screens may be different.

HOME SCREEN



LIVE VIEW

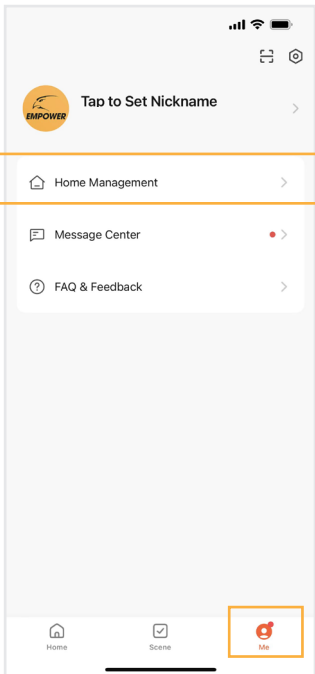


- A** Device Location
- B** Added Devices
- C** Add Device / Create Scene
- D** Device Management

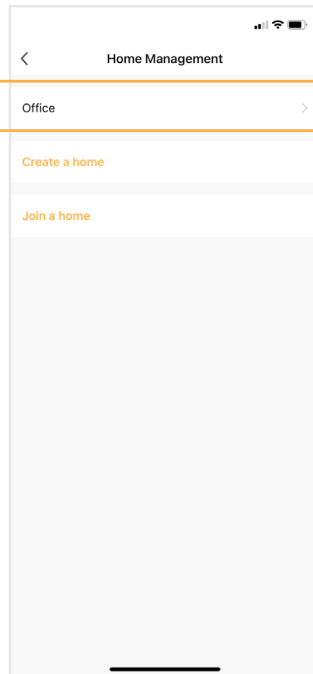
- E** Device Name
- F** Tap to Live View Selected Channel
- G** Channel Settings*
(NOTE: cloud storage is not available)
- H** DVR Settings
- I** Tap to Enter Multi-Cameras Live View

HOW TO SHARE APP ACCESS

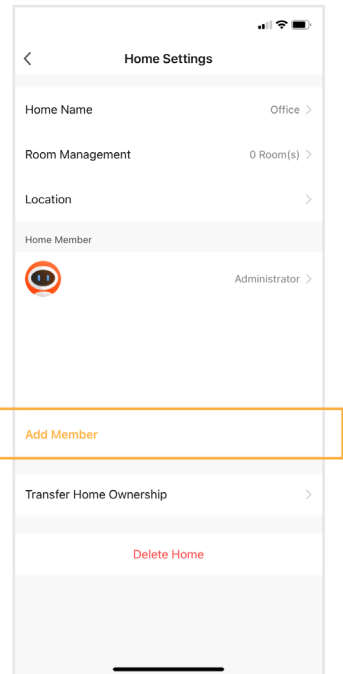
IMPORTANT: Before sharing App Access, each user will need to download the DEFENDER EMPOWER APP and create their own account.



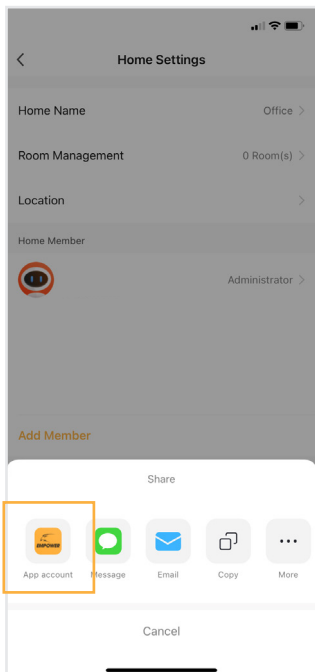
Launch your App and tap on 'Me' then tap 'Home Management'.



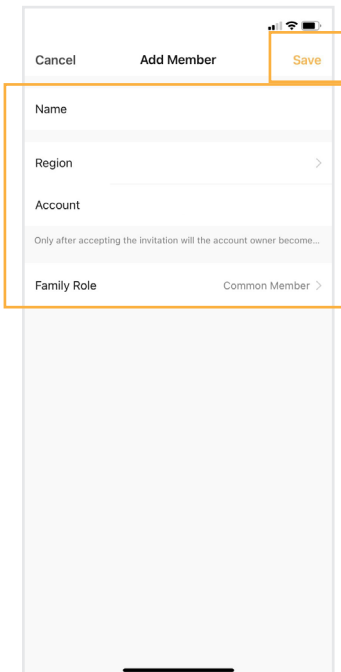
Tap on the camera location you would like to share.



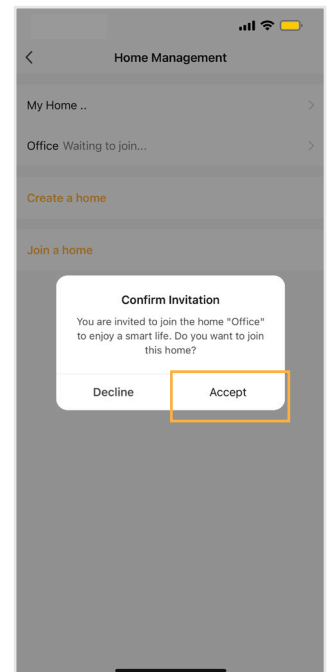
Tap 'Add Member'.



Tap the 'Defender Empower App account'.



Fill in the other user's account information to share App access, then tap 'Save'.



The other user is required to tap 'Accept' to confirm the invitation.

Visit our website to download your manual,
view set-up videos or contact our Support Team.

DefenderCameras.com/Support



Defender is continuously enhancing our products to bring customers the best user experience. For the most up to date Quick Start Guide, please visit defendercameras.com.

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