



arlo
Pro 3



Before completing Arlo Pro 3 training please attain the Arlo Pro/Pro 2 and Arlo Ultra certifications.
The following training builds upon knowledge attained in the previous modules.

- **Arlo Pro 3** is a wireless camera system with similarities to Arlo Ultra
 - Pro 3 features include:
 - 2K Video with HDR
 - 160 Degree Field of View
 - Integrated Spotlight
 - Color Night Vision
 - Auto Zoom & Tracking
 - 2-Way Audio
 - Weather Resistant



VMB4540 – Arlo Pro 3 SmartHub



VMC4040P – Arlo Pro 3 Camera

Arlo Pro 3 delivers advanced video and audio quality.

- The camera displays a wide, panoramic view with enhanced color night vision
 - **HDR** allows for a clear picture
 - **160-degree** diagonal field of view with a matching wide range for motion detection
 - **Full panoramic view** with auto image correction that reduces the fisheye effect
- The **integrated spotlight** lights up the night and helps to ward off unwanted visitors
- Advanced **noise canceling technology** also minimizes background noise for clear, two-way conversations
- **Auto Zoom & Tracking** allows for auto-focus on moving objects with clarity and detail



Arlo Pro 3

2K QHD Wire-Free Security Camera Systems

Features



2K Video with HDR

Zoom in on objects and see clearer details and colors in 2K HDR.



Color Night Vision

See what's lurking with color night vision or black & white.



Integrated Spotlight

Light up the night and identify unique details with the integrated spotlight.



160° Viewing Angle

Keep an eye on more of what matters with a wider field of view.



2-Way Audio

Hear and speak to visitors clearly with superior audio quality.



Fast & Easy Wire-Free Setup

Magnetic mount makes it easy to install and adjust.



Magnetic Charging

Fast charging cable easily snaps into place.



Built-In Smart Siren

Trigger your siren remotely or automatically during an event.



Rechargeable Batteries

Convenient and long-lasting takes the expense out of security.



Weather-Resistant

Put Arlo camera anywhere—indoors or out.



Arlo Pro 3 2K QHD Wire-Free Security Camera Systems

2K & HDR

Arlo Pro 3 offers 2K resolution with HDR. Zoom in on objects and see clearer details and colors.

Integrated Spotlight & Color Night Vision

See what's lurking with color night vision allowing you to see video in color rather than traditional black and white. The integrated spotlight lights up the night or helps to ward off unwanted visitors.



Arlo Pro 3 outputs **2560 x 1440** resolution at a **16 x 9** aspect ratio

Pro 3 streams **2K** while providing:

- **160-degree diagonal field of view that does real-time image de-warping**
- **Real-time high dynamic range (HDR)**
- **An integrated spotlight**
- For basic use of 2K, Arlo recommends an average upload bandwidth speed of **2 Mbps** per camera
- 2K content can be streamed without a subscription by using **local live streaming** or recording 2K motion content onto a **USB device** connected to the SmartHub
- 2K cloud storage is included with **Arlo Smart**

- Typical night-time video footage from security cameras is displayed in black and white
 - Arlo Pro 3 can output images in color, even at night



Typical Night Vision



Color Night Vision

Arlo Pro 3 Integrated Spotlight



- Arlo Pro 3 utilizes an integrated spotlight similar to Arlo Ultra
- The spotlight illuminates the area in front of the camera up to approximately **25 feet**
- The amount of light cast onto a surface is called illuminance, which is measured in lux.
- This can be thought of as light intensity within a specific area.
 - The spotlight measures **40 lux at 1 meter**



Requirements

- High-speed Internet connection
- Available Ethernet port on your router

Certifications

- FCC, IC, CE

Dimensions & Weight

- SmartHub:
 - 6.02 x 5.5 x 2 in (153 x 140 x 52.4 mm)
 - .66lb (300g)
- Camera:
 - 3.5 x 2.0 x 3.0 in (89 x 52 x 78.4 mm)
 - .72lb (331g)

Warranty

- www.arlo.com/warranty



Camera

- Resolution: Up to 2K (2560 x 1440)
- Format: H.264 and H.265
- High Dynamic Range (HDR)
- Field of view: 160° diagonal
- Night Vision
 - Illuminates up to 25 feet
 - Dual 850nm LEDs
- Integrated spotlight
- 12x digital zoom
- Audio: Speaker and Microphone
- Frequency: 2.4Ghz
- Range: Up to 300 feet line of sight
- Wire-Free motion detection
 - Adjustable up to 25 feet
- Adjustable sound detection
- Automatic email alerts and push notifications
- Rechargeable battery and AC power options
- Magnetic charging and mounting
- Battery life varies based on settings, usage, & temperature
- Weather-Resistant
 - Operating temperature: -4° F to 113° F (-20° C to 45° C)
- Google Assistant, Amazon Alexa

SmartHub

- WiFi
 - Frequency: 2.4GHz
 - Range: 300 feet line of sight*
- ArloRF™ ready
- USB slot for local storage
- Ethernet interface port
- Status LED
- IP Configuration DHCP
- Internal antenna



Arlo Pro 3 Introduction



Arlo Pro 3 Worldwide SKUs



VMC4040P – Arlo Pro 3 Add-on Camera



VMB4540 – Arlo Pro 3 SmartHub

6-Camera Systems (VMS4640P) are
also available for a limited time

REGION	PART NUMBER
US	
Pro 3 Add-on Camera	VMC4040P-100NAS
Pro 3 2-Camera System	VMS4240P-100NAS
Pro 3 3-Camera System	VMS4340P-100NAS
Pro 3 4-Camera System	VMS4440P-100NAS
Canada	
Pro 3 Add-on Camera	VMC4040P-100PAS
Pro 3 2-Camera System	VMS4240P-100PAS
Pro 3 3-Camera System	VMS4340P-100PAS
Pro 3 4-Camera System	VMS4440P-100PAS
APAC	
Pro 3 Add-on Camera	VMC4040P-100APS
Pro 3 2-Camera System	VMS4240P-100APS
Pro 3 3-Camera System	VMS4340P-100APS
Pro 3 4-Camera System	VMS4440P-100APS
EMEA	
Pro 3 Add-on Camera	VMC4040P-100EUS
Pro 3 2-Camera System	VMS4240P-100EUS
Pro 3 3-Camera System	VMS4340P-100EUS
Pro 3 4-Camera System	VMS4440P-100EUS
Australia	
Pro 3 Add-on Camera	VMC4040P-100AUS
Pro 3 2-Camera System	VMS4240P-100AUS
Pro 3 3-Camera System	VMS4340P-100AUS
Pro 3 4-Camera System	VMS4440P-100AUS

2K QHD Wire-Free Security 2-Camera System



System includes

VMS4240P

- (2) Arlo Pro 3 Cameras
- (2) Rechargeable Battery
- (1) Magnetic Charging Cable
- (2) Wall Mount & Screw Kit
- (1) SmartHub
- (1) Ethernet Cable
- (1) Power Adapter
- (1) Quick Start Guide
- (1) Video Monitoring Decal

2K QHD Wire-Free Security 3-Camera System



System includes

VMS4340P

- (3) Arlo Pro 3 Cameras
- (3) Rechargeable Battery
- (1) Magnetic Charging Cable
- (3) Wall Mount & Screw Kit
- (1) SmartHub
- (1) Ethernet Cable
- (1) Power Adapter
- (1) Quick Start Guide
- (1) Video Monitoring Decal

2K QHD Wire-Free Security 4-Camera System



System includes

- (4) Arlo Pro 3 Cameras
- (4) Rechargeable Battery
- (1) Magnetic Charging Cable
- (4) Wall Mount & Screw Kit
- (1) SmartHub
- (1) Ethernet Cable
- (1) Power Adapter
- (1) Quick Start Guide
- (1) Video Monitoring Decal

VMS4440P

2K QHD Wire-Free Security Add-on Camera



Includes

- (1) Arlo Pro 3 Camera
- (1) Rechargeable Battery
- (1) Magnetic Charging Cable
- (1) Wall Mount & Screw Kit
- (1) Power Adapter
- (1) Quick Start Guide
- (1) Video Monitoring Decal

VMS4040P

Arlo Pro 3 Introduction



Arlo Pro 3 also comes in Black

REGION	PART NUMBER
US	
BLK Pro 3 Add-on Camera	VMC4040B-100NAS
BLK Pro 3 2-Camera System	VMS4240B-100NAS
BLK Pro 3 4-Camera System	VMS4440B-100NAS
Canada	
BLK Pro 3 Add-on Camera	VMC4040B-100PAS
BLK Pro 3 2-Camera System	VMS4240B-100PAS
BLK Pro 3 4-Camera System	VMS4440B-100PAS
EMEA	
BLK Pro 3 Add-on Camera	VMC4040B-100EUS
BLK Pro 3 2-Camera System	VMS4240B-100EUS
BLK Pro 3 4-Camera System	VMS4440B-100EUS



Pro 3 Compared to Ultra



	Pro 3	Ultra
Resolution	2K QHD (Quad HD)	4K UHD (Ultra HD)
High Dynamic Range	Yes	Yes
FoV	160°	180°
Video Compression	H.264 & H.265 (HEVC)	H.264 & H.265 (HEVC)
Spotlight	Yes	Yes
Night Vision	Advanced	Best
Color Night Vision	Yes	Yes
Auto Zoom & Tracking	Yes	Yes
Audio	Full Duplex	Full Duplex
Smart Siren in Camera	Built in Smart Siren	Built in Smart Siren
Audio Processing	Echo Cancellation	Wind Reduction & Echo Cancellation
Battery	4800mAh	4800mAh
Zwave	Yes	Yes
Zigbee	Yes	Yes
ArloRF™	Yes	Yes
Weatherproof Connector	Yes	Yes
Lock Mount Compatible	Yes	Yes
Extended Battery Compatible	Yes	Yes

Pro 3 Compared to Ultra



Arlo Pro 3 and Arlo Ultra cameras are very similar in appearance with slight differences on the camera face

Pro 3 has a one microphone above the camera lens



Arlo Pro 3

Pro 3 has a smaller spotlight

Ultra has two microphones on the sides of the camera lens



Arlo Ultra

Ultra camera lens appears to be larger

Ultra Ambient Light Sensor and Status LED are positioned lower

Pro 3 Compared to Pro 2



	Pro 2	Pro 3
Resolution	FHD (Full HD - 1080p)	2K QHD (Quad HD)
High Dynamic Range	No	Yes
FoV	130°	160°
Video Compression	H.264	H.264 & H.265 (HEVC)
Spotlight	No	Yes
Night Vision	Basic	Advanced
Color Night Vision	No	Yes
Auto Zoom & Tracking	No	Yes
Audio	Half Duplex	Full Duplex
Smart Siren in Camera	No	Built in Smart Siren
Audio Processing	No	Echo Cancellation
Battery	2440mAh	4800mAh
Zwave	No	Yes
Zigbee	No	Yes
ArloRF™	No	Yes
Weatherproof Connector	No	Yes
Lock Mount Compatibility	No	Yes
Extended Battery Compatibility	No	Yes

Pro 3 Compared to Pro 2



Arlo Pro 3 Introduction



- Arlo Pro 3 cameras **in kits** will be “pre-paired” to the VMB4540 SmartHub (similar to Arlo Ultra)
 - Add-on cameras are not pre-paired to any SmartHub
- Arlo Audio Doorbell is compatible with the Arlo Pro 3 SmartHub (VMB4540)
- Arlo Pro 3 cameras are compatible with the following base stations/SmartHubs:
 - **VMB4000**
 - **VMB4500**
 - **VMB4540**
 - **VMB5000**
- Arlo Pro 3 cameras are **not** compatible with the following base stations:
 - **VMB3000**
 - **VMB3500**



Arlo Pro 3 Accessories



Arlo Pro 3 uses the same accessories as Arlo Ultra



Magnetic Wall Mounts
(VMA5000)



8 ft. Indoor Magnetic Charging Cable
(VMA5000C)



25 ft. Indoor Magnetic Charging Cable
(VMA5600C)



Rechargeable Battery
(VMA5400)



Dual Charging Station
(VMA5400C)



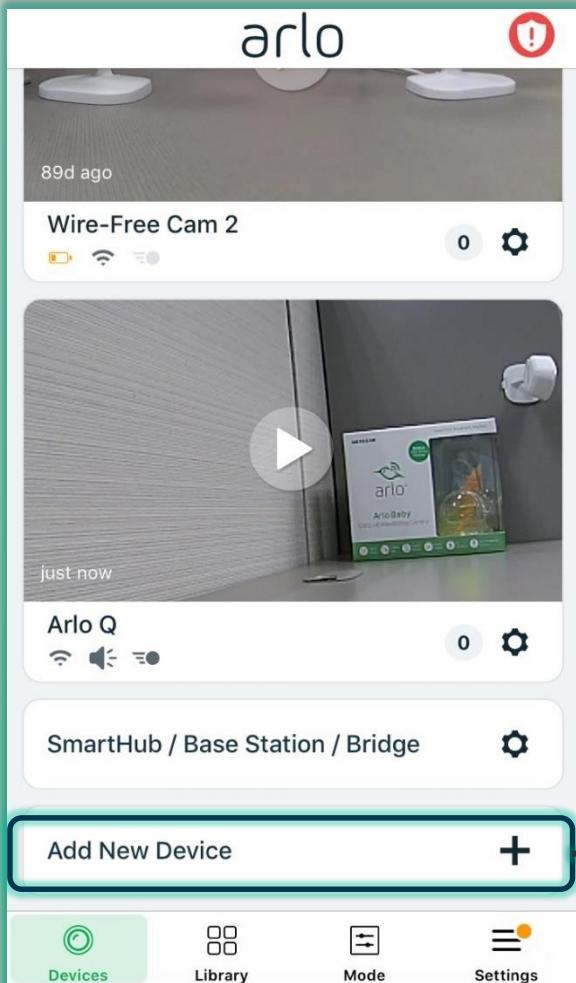
Solar Panel
(VMA5600)

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Setup

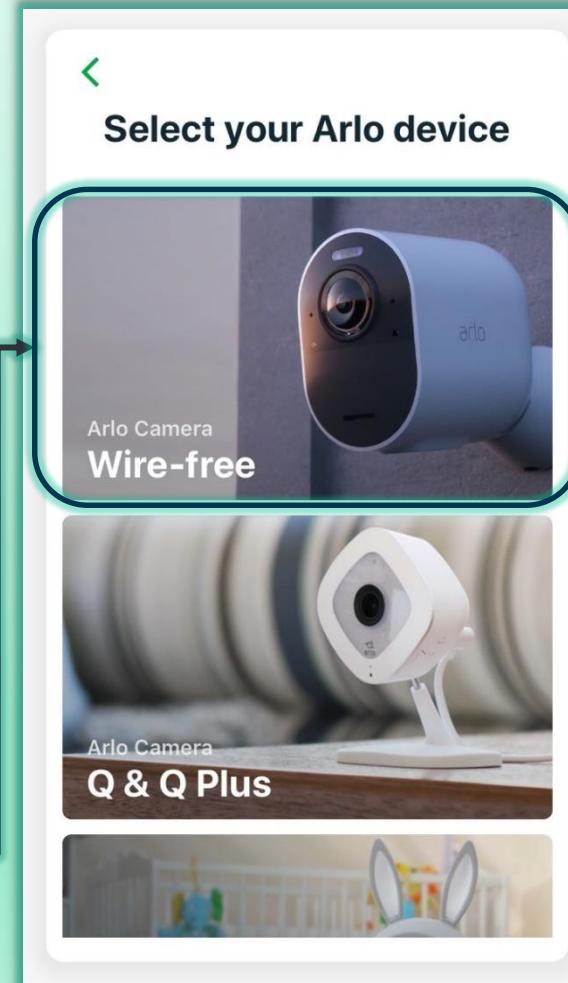
Pro 3 Setup



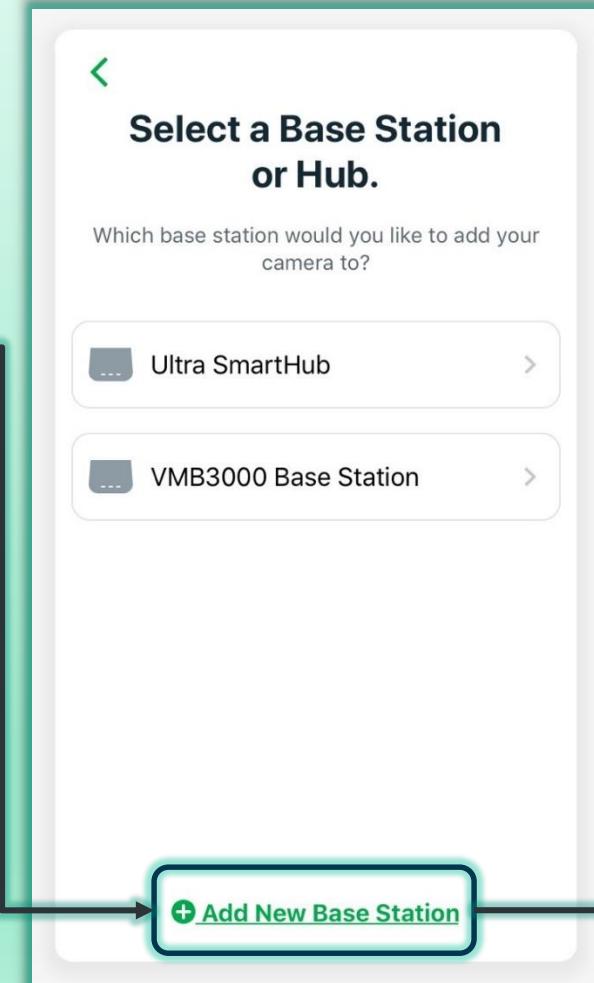
1. Tap Add New Device +.



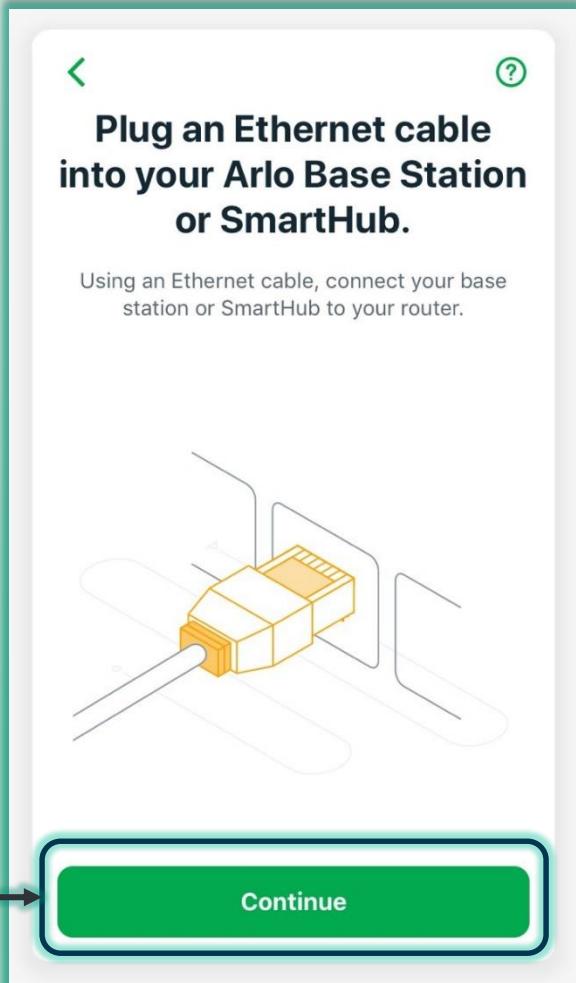
2. Tap Arlo Camera Wire-free.



3. Tap + Add New Base Station.



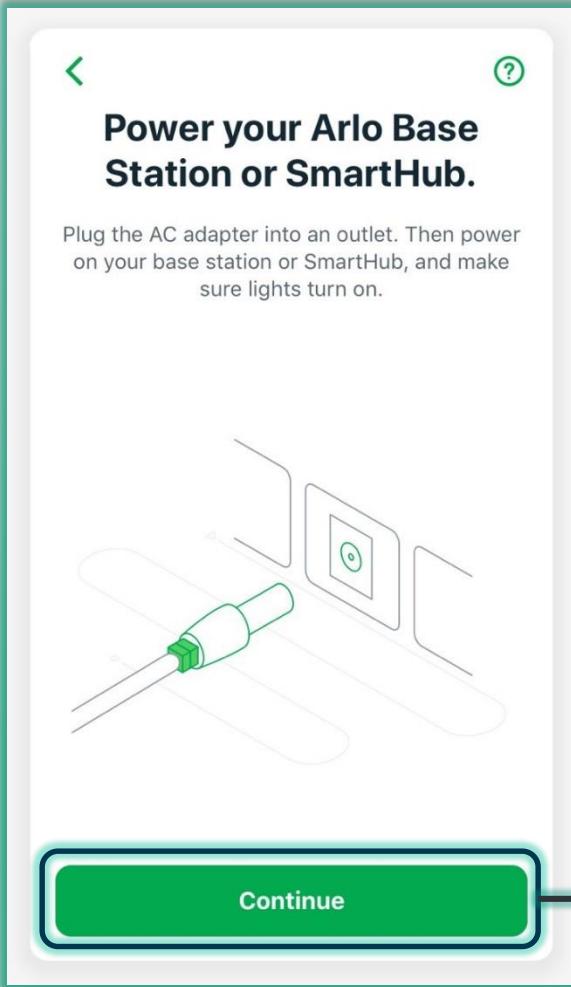
4. Connect the SmartHub to the router and tap Continue.



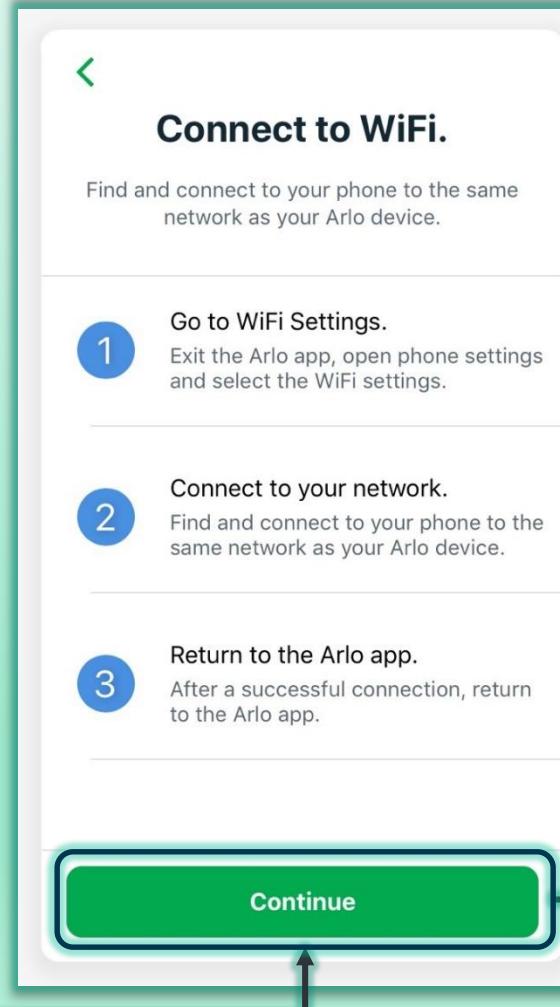
Pro 3 Setup



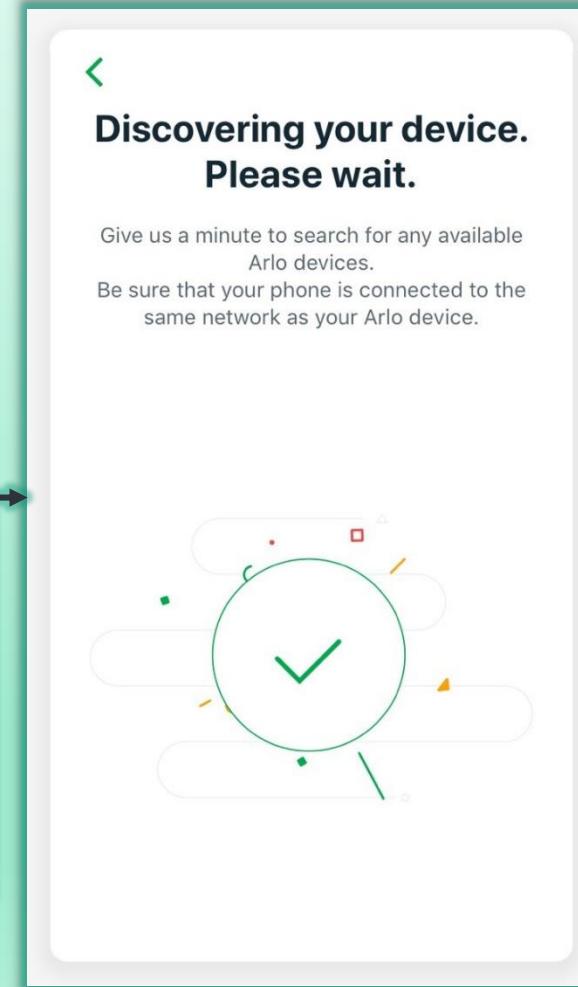
5. Connect the SmartHub to AC power and tap **Continue**.



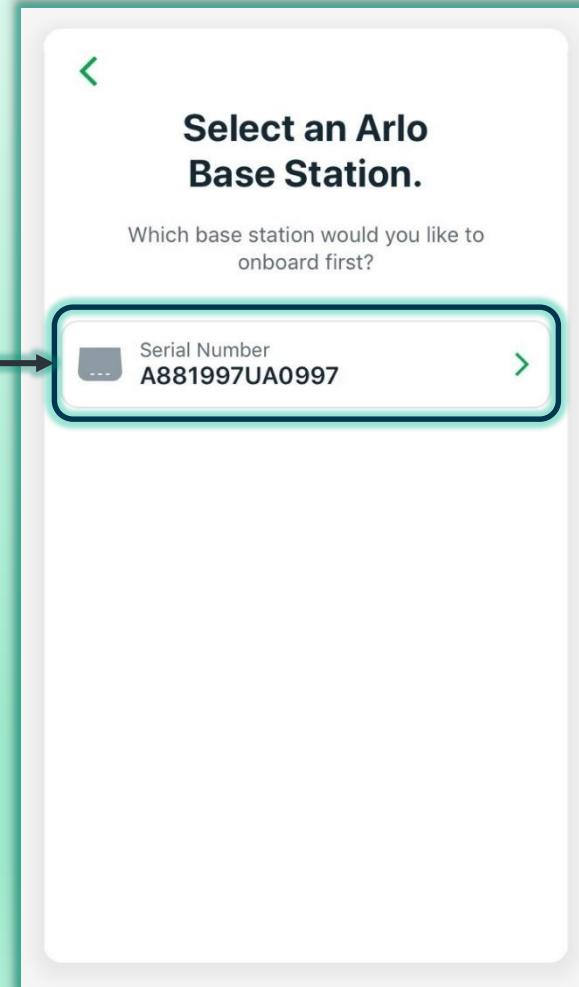
6. Connect the mobile device to WiFi and tap **Continue**.



7. Wait for Arlo to discover the device.



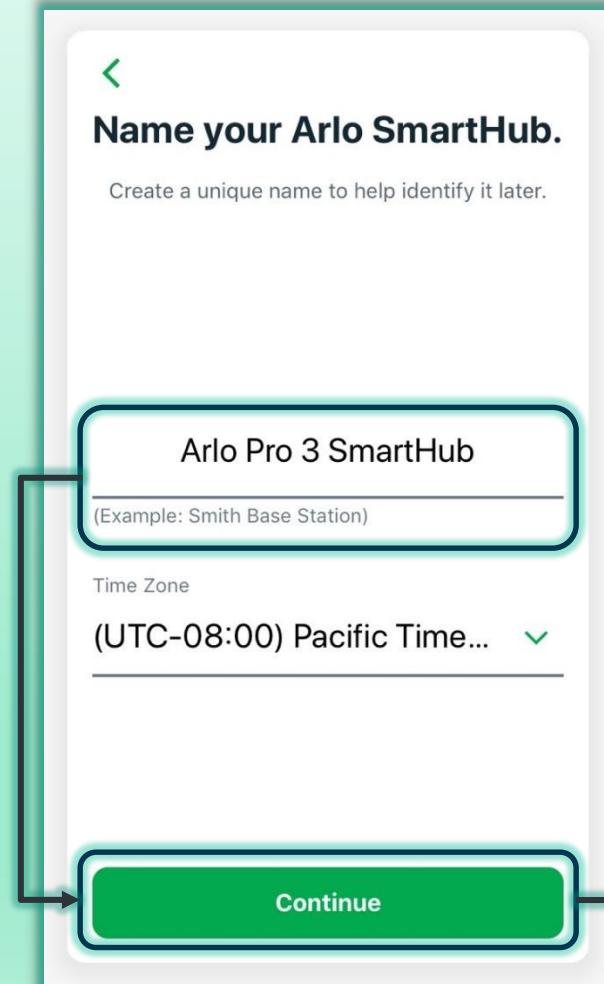
8. Select the correct SmartHub **Serial Number**.



Pro 3 Setup



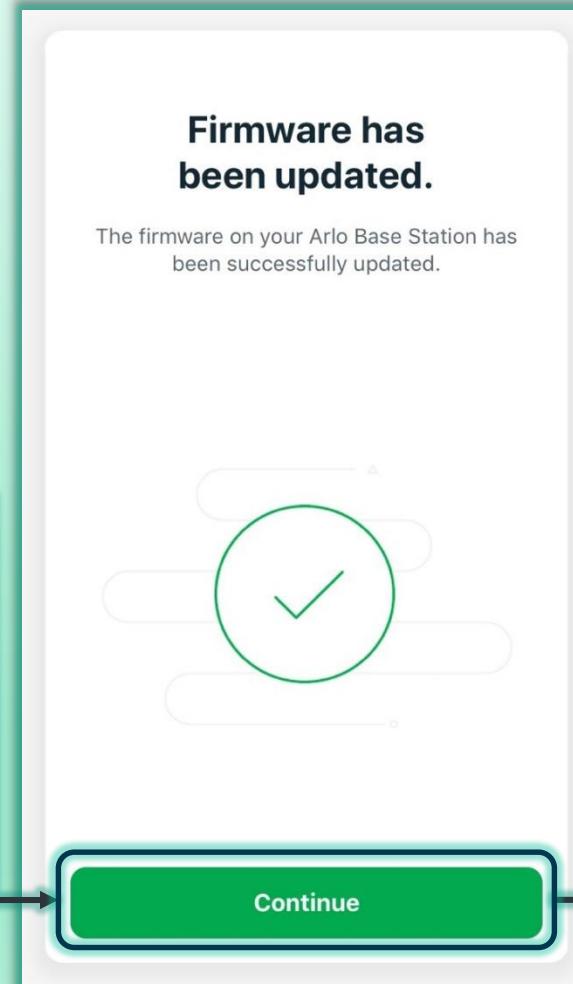
9. Name the SmartHub and tap **Continue**.



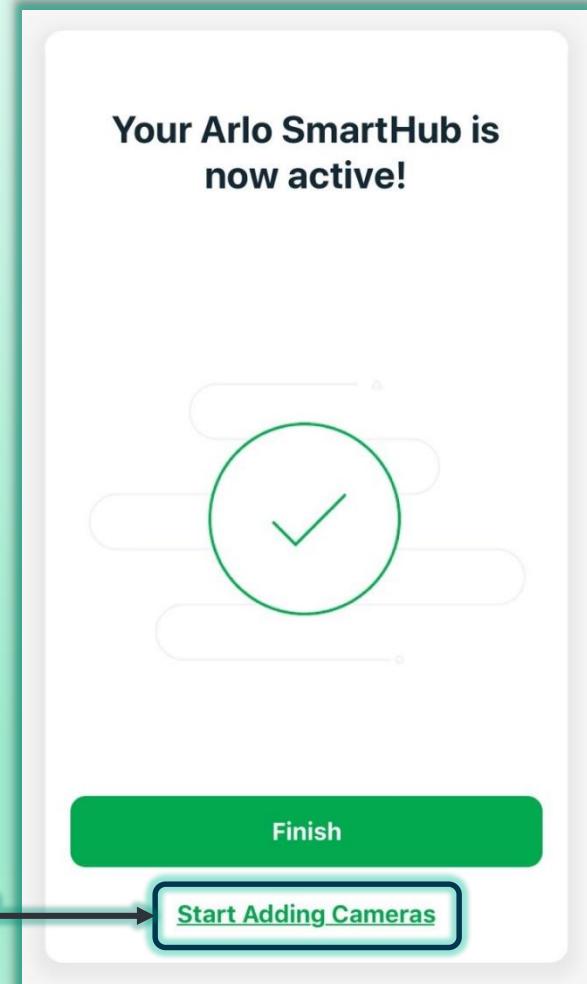
10. Wait for firmware updates.



11. Tap **Continue**.



12. Tap **Start Adding Cameras**.



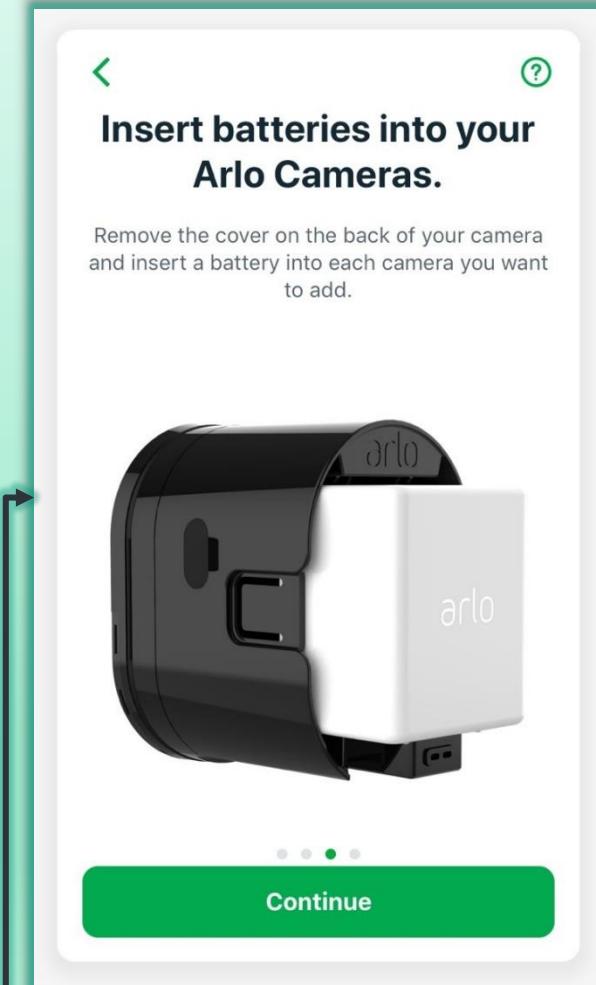
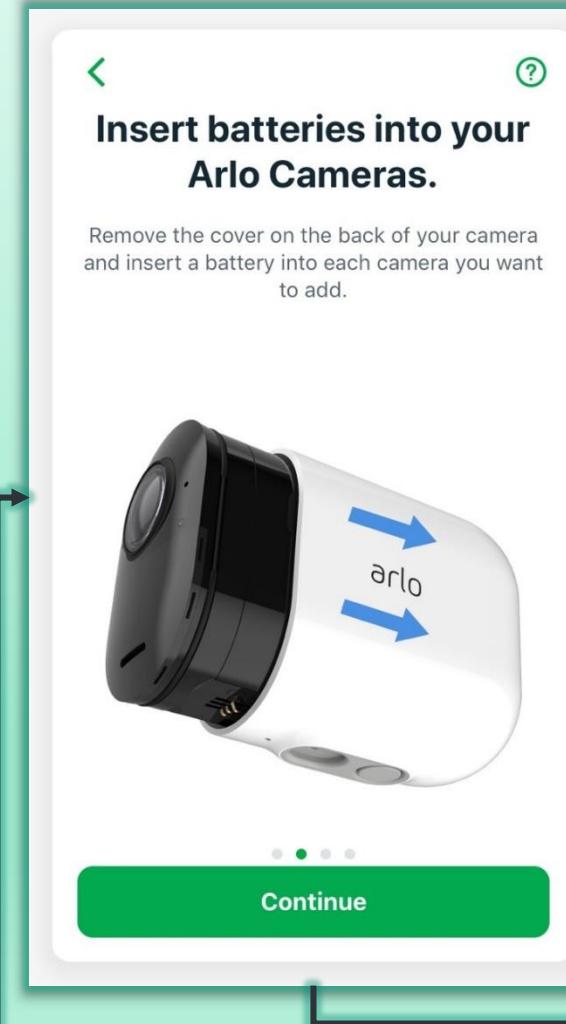
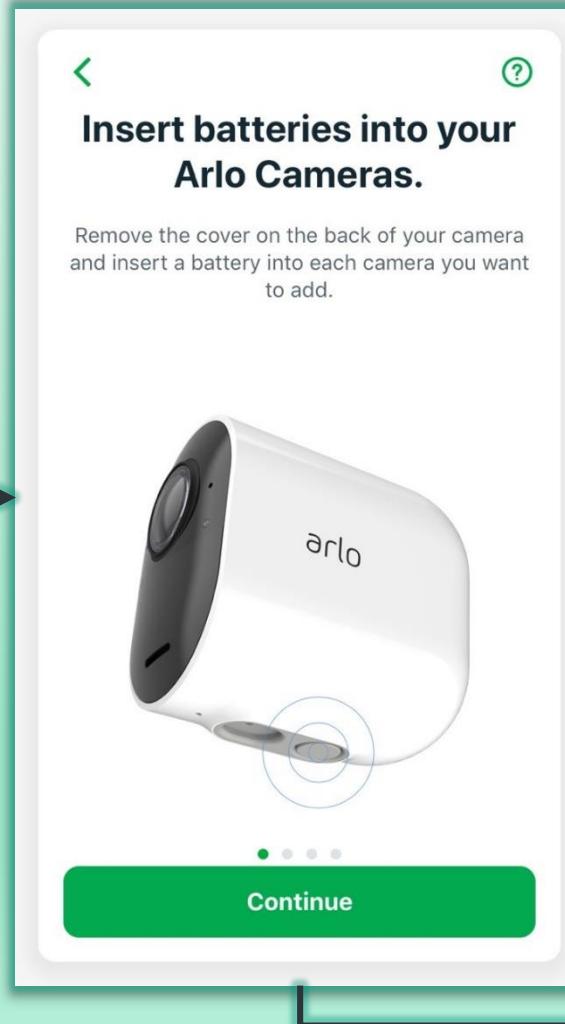
Pro 3 Setup



13. Select Pro 3.



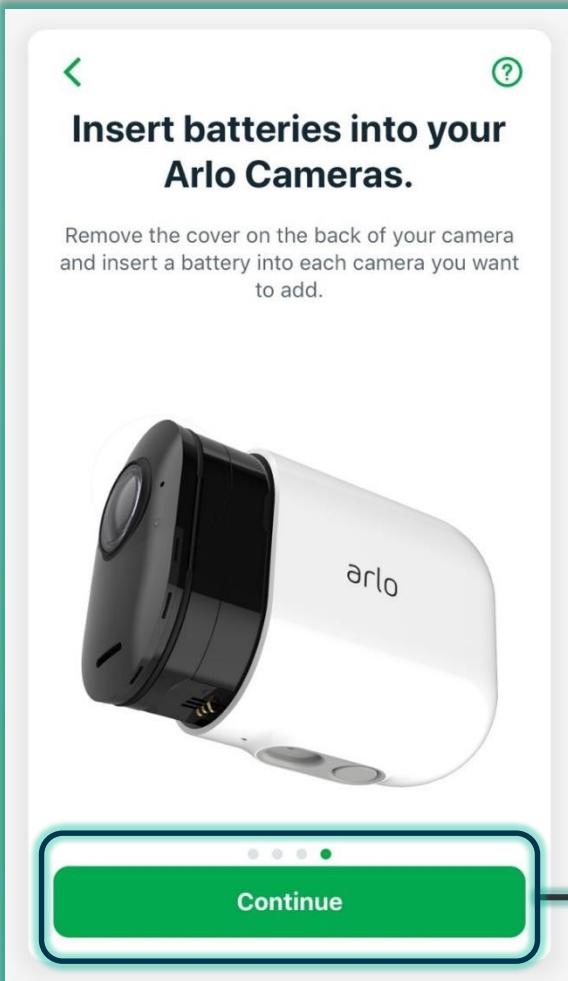
14. Insert a **battery** into each camera.



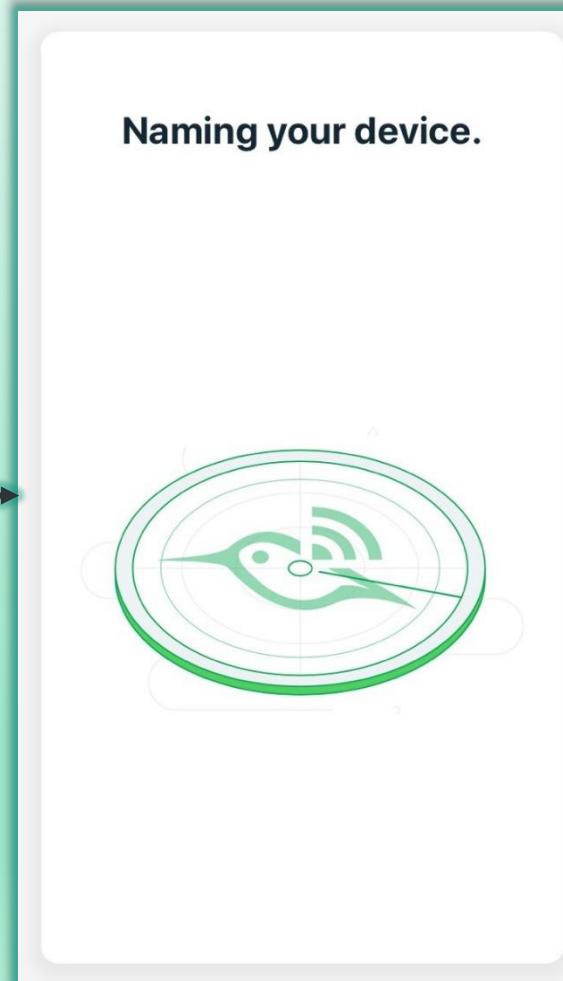
Pro 3 Setup



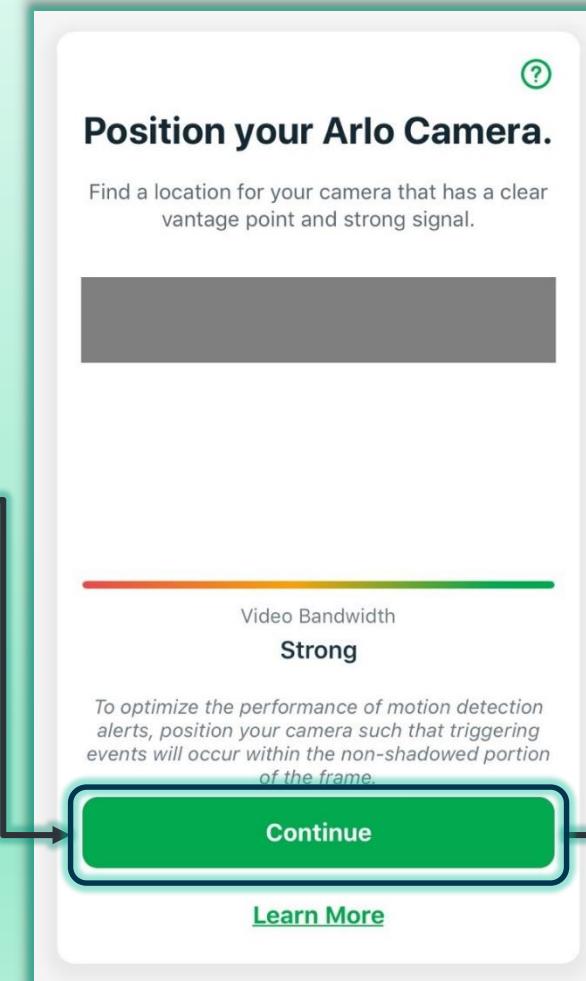
15. Tap **Continue**.



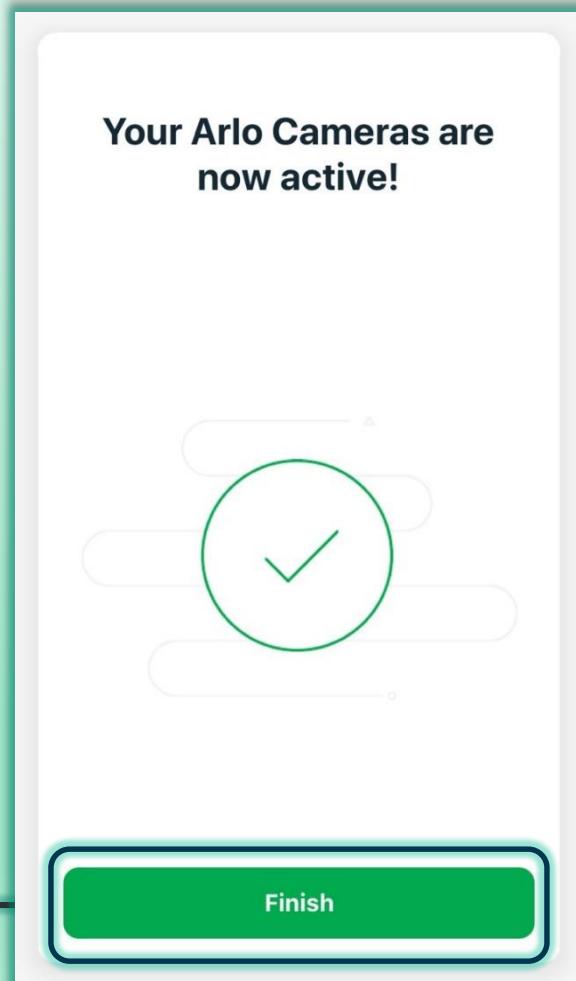
16. Wait for the system to name the device.



17. Position the camera and tap **Continue**.



18. Tap **Finish**.



arlo
Pro 3
Camera

Arlo Pro 3 Camera Specifications



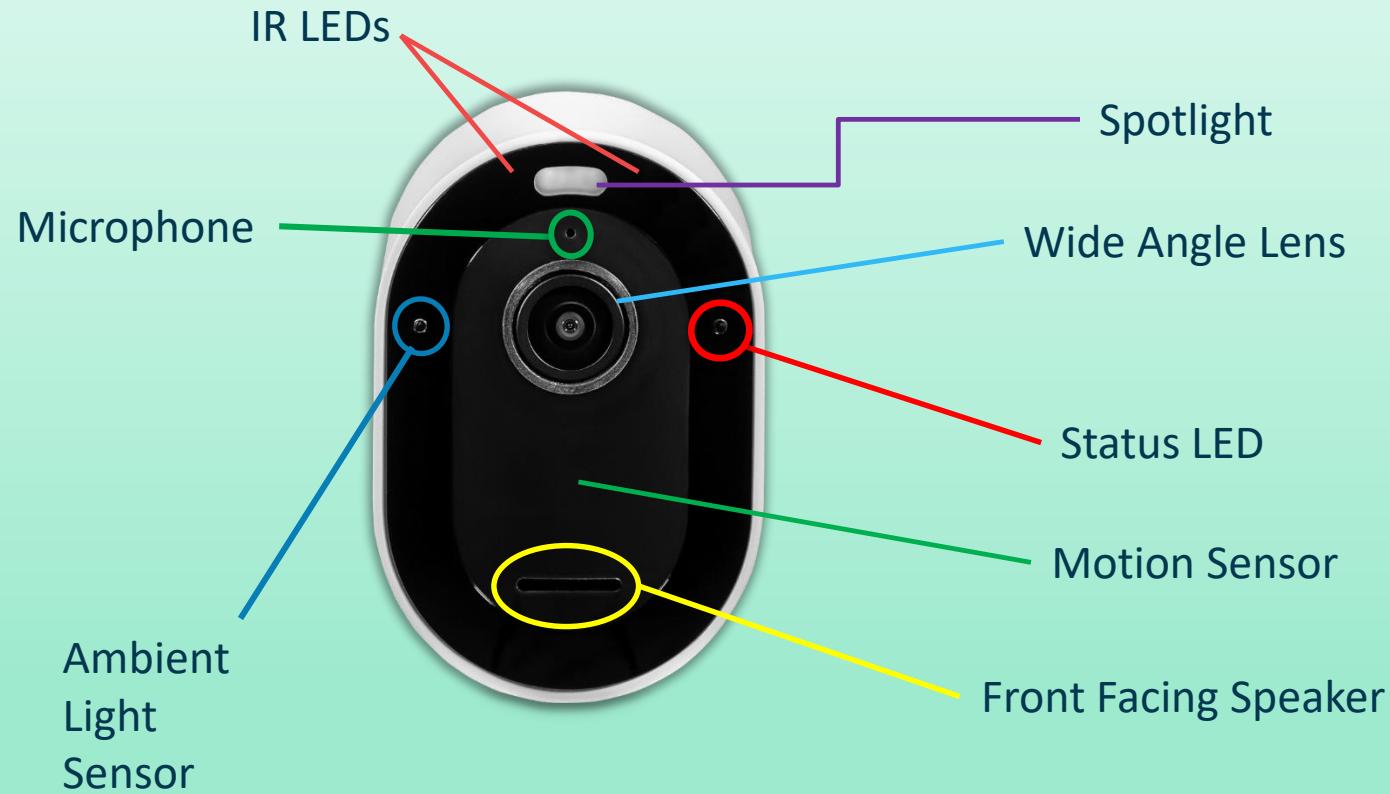
- 2K QHD resolution with HDR
- 160° field of view (optical & PIR)
- Spotlight (color night vision)
- Advanced RF design for maximum range
- Detects motion up to approximately 25 feet
- 2-way conversational audio
 - Push-to-Talk allows the user to talk and listen just by tapping on the microphone icon in the camera feed 
- Integrated siren
- Up to 6 months battery life (rechargeable)
- Modular industrial design
- Weather resistant - IP64 rated (IP65 rating certification **pending** – no ETA)



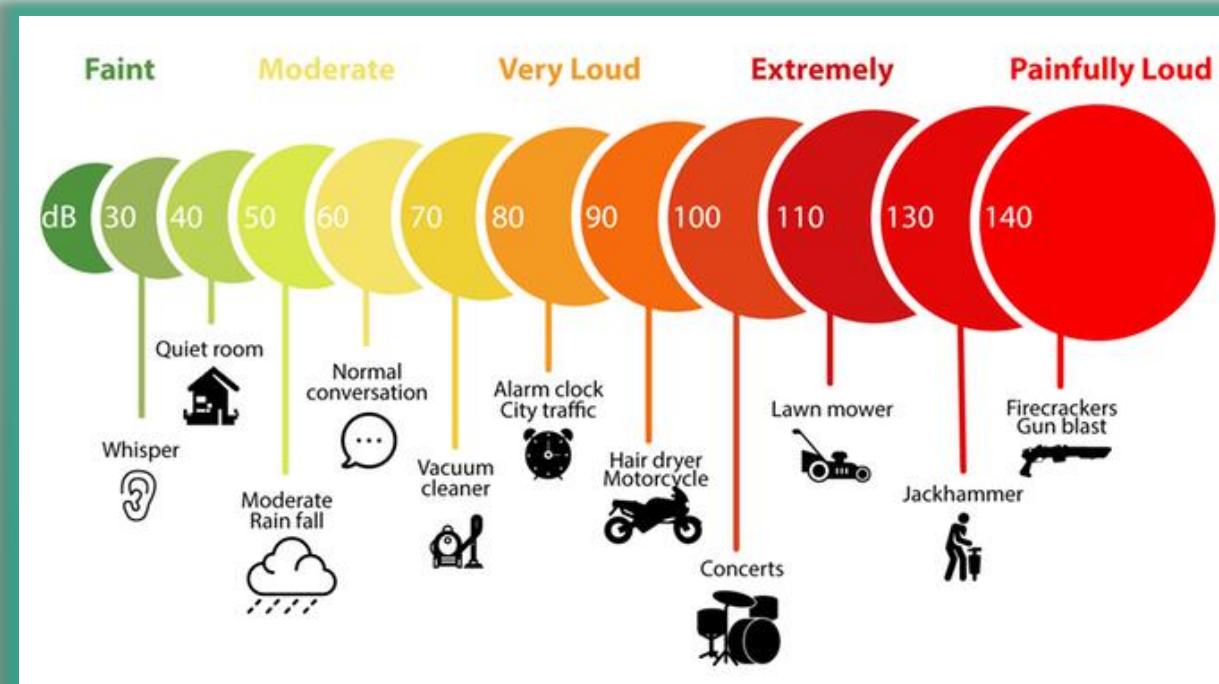
IP Number	First Digit - SOLIDS	Second Digit - LIQUIDS
IP64	Protected from total dust ingress	Protected from water spray/splashing from any direction
IP65	Protected from total dust ingress	Protected from low pressure water jets from any direction

- 2.4GHz
- Same battery and modular casing as Ultra
- Weather proof magnetic connector
- Compatible with all Arlo Ultra accessories

Arlo Pro 3 Camera



- Arlo Pro 3 utilizes a siren inside the camera that emits from the forward facing speaker (similar to Arlo Ultra)
- The siren has a noise level of **80 decibels** and can heard up to approximately **25 feet away** from the camera

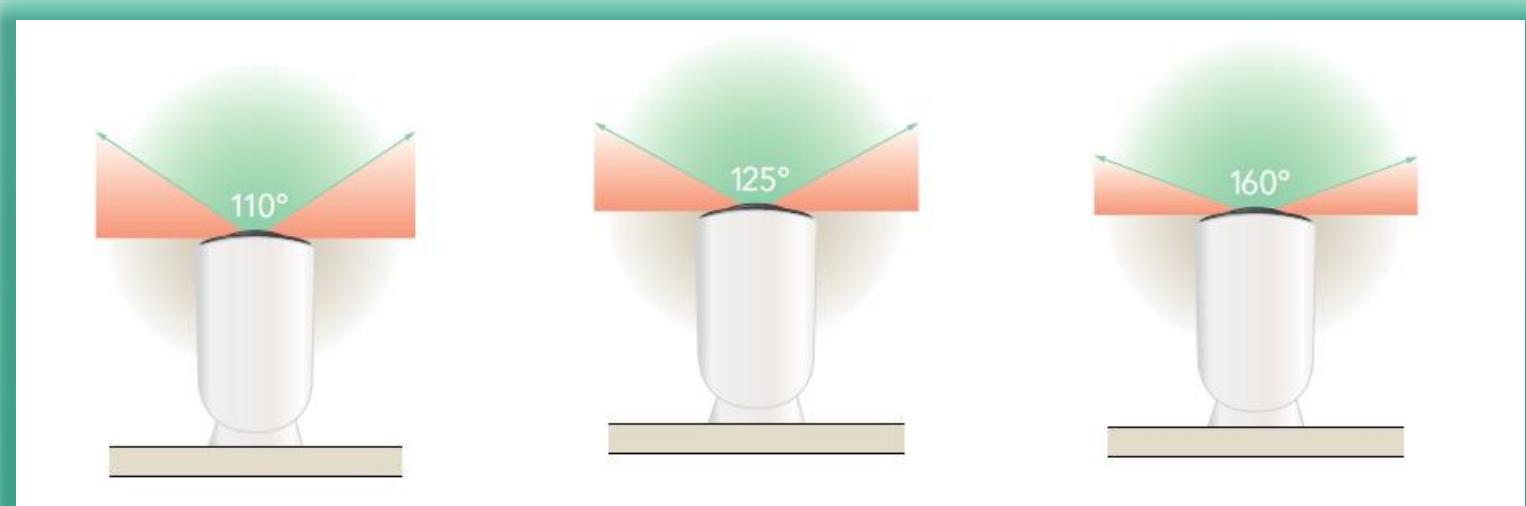
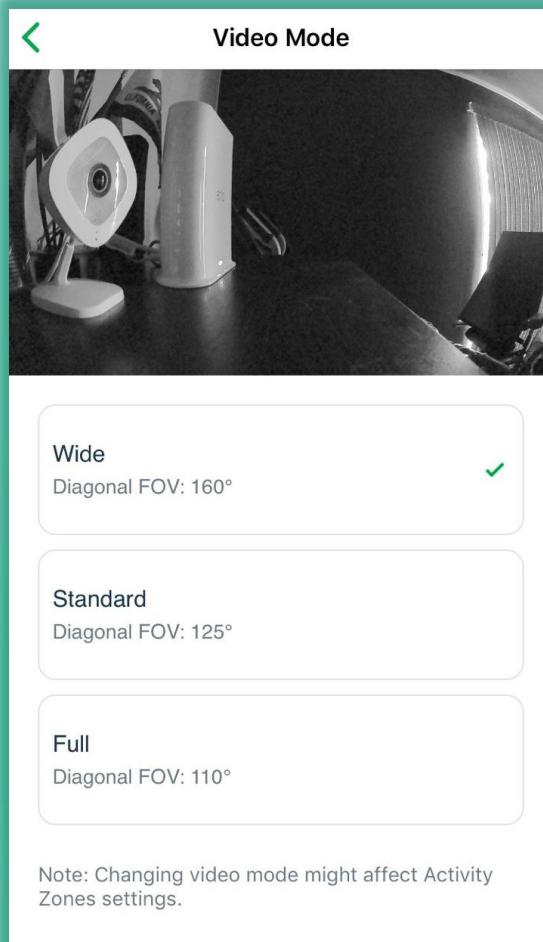


Arlo Pro 3 Field of View



The Arlo Pro 3 Field of View (FOV) can be set to Full (**110 degrees**), Wide (**125 degrees**), or Super wide (**160 degrees**).

In the Arlo app go to **Device Settings > Video Settings > Video Mode** and select the preferred FOV.



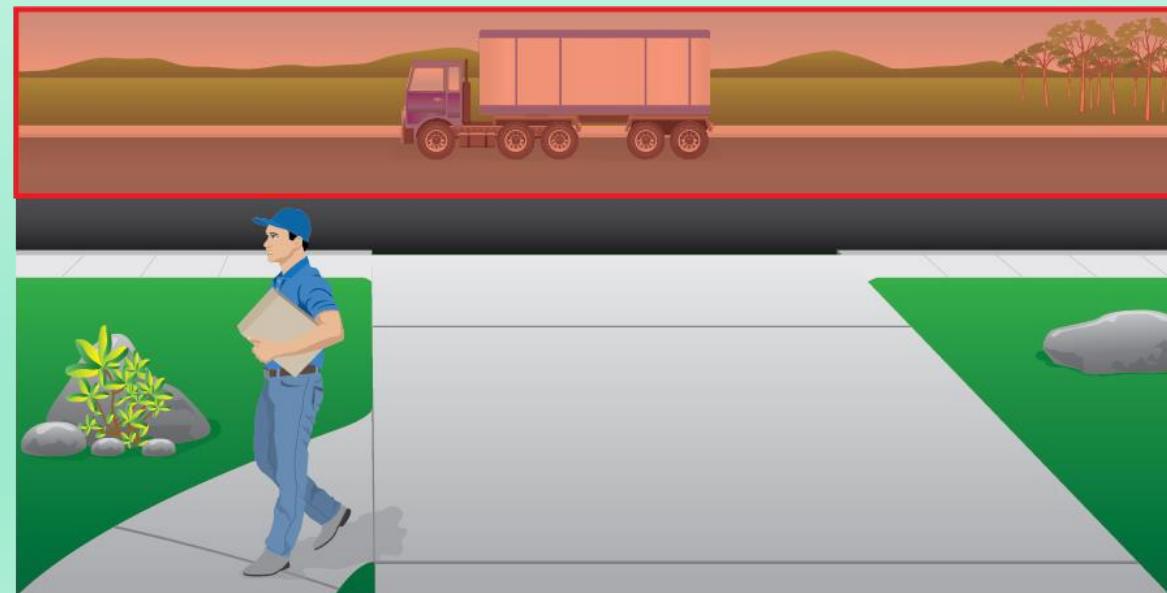
Arlo automatically corrects the image to reduce the fisheye effect for each field of view setting.

The Full setting completely eliminates the fisheye effect.

Pro 3 Camera Positioning



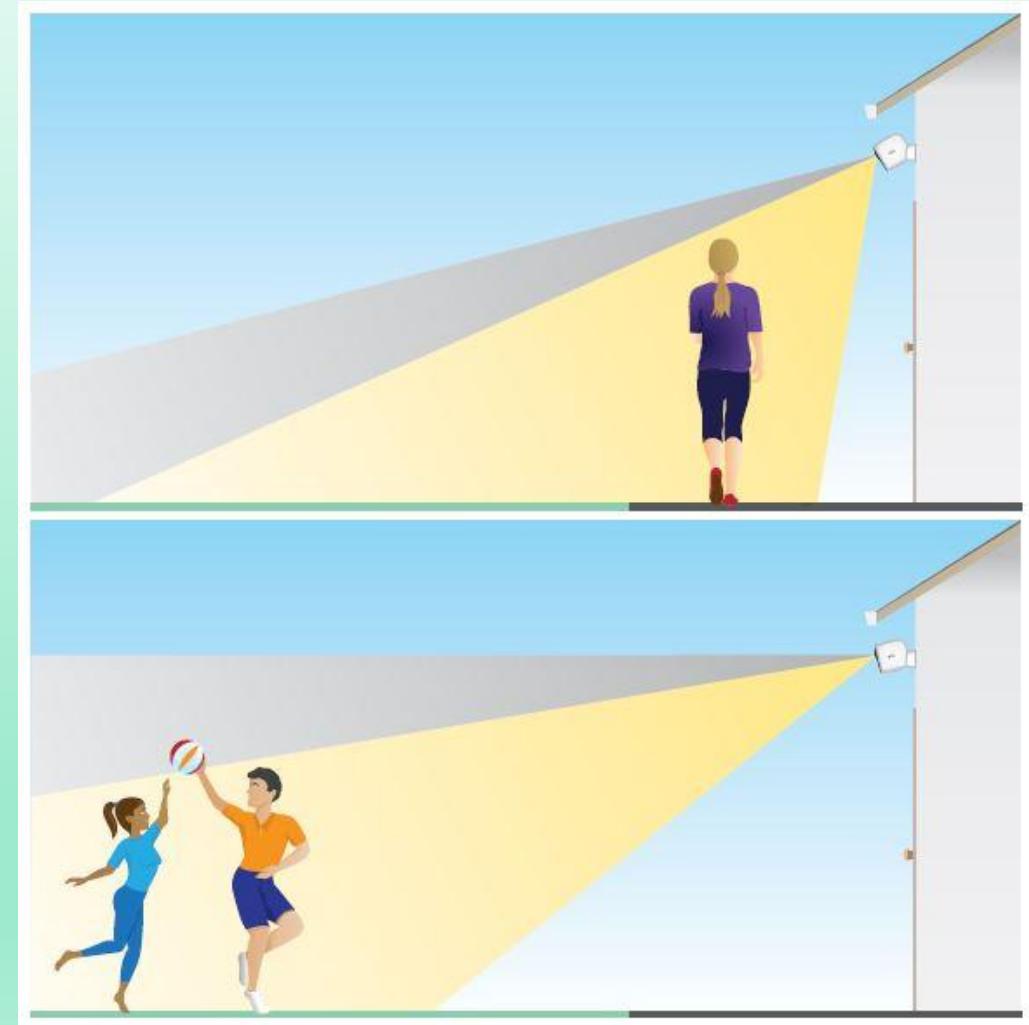
- The Arlo Pro 3 camera can be aimed and mounted in different ways to optimize the camera's ability to detect motion in specific areas
- The lower two-thirds of the camera's field of view is the motion-sensitive part of the image
- Aim the camera so that any motion you wish to detect appears within this part of the image



Pro 3 Camera Positioning



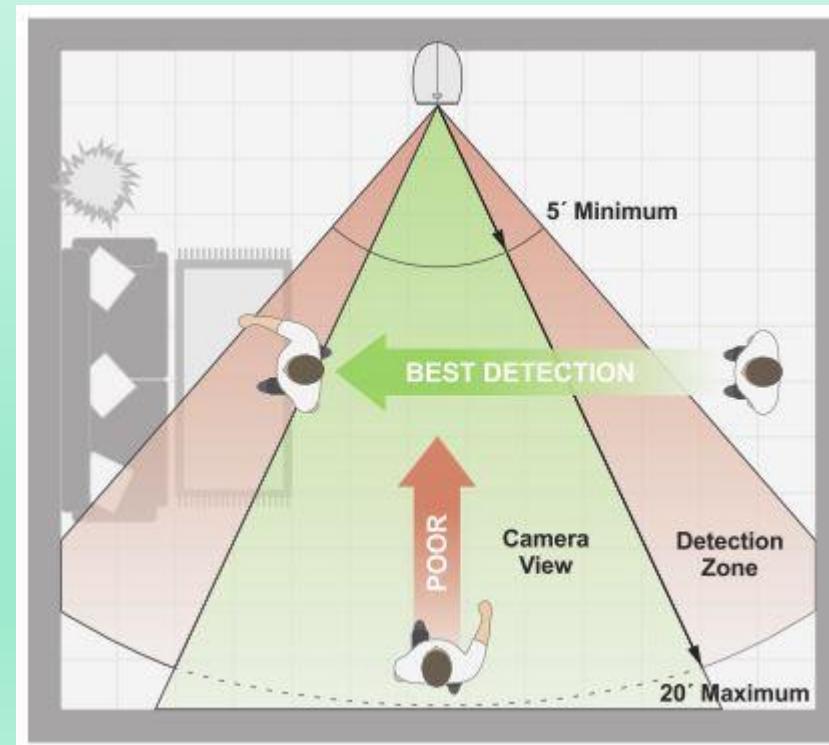
- To monitor motion closer to the camera, such as visitors at the front door, **mount the camera at least 6.5 feet (1.9 meters) high** and aim it so that visitors will appear in the lower two-thirds of the image
- This angle works well to avoid motion alerts for movement in the top third of the image, such as vehicles driving by
- To monitor motion occurring farther away, such as children playing on a lawn, **aim the camera higher** to frame the area within the lower two-thirds of the image



Pro 3 Camera Positioning



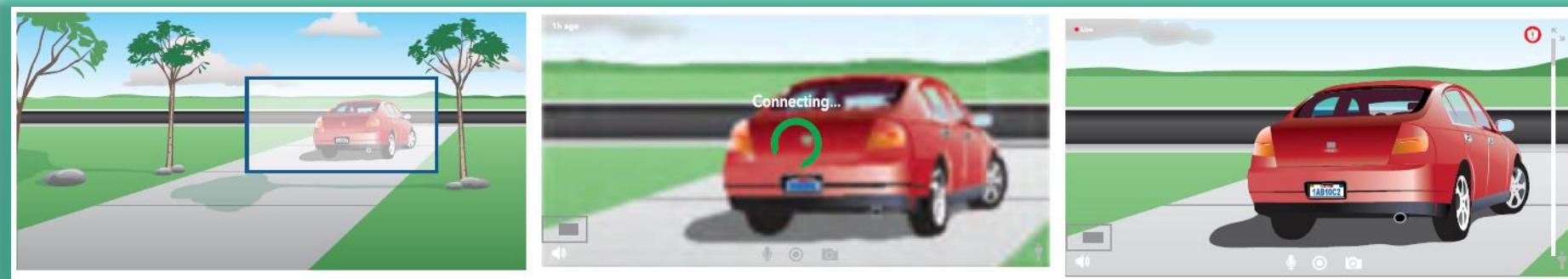
- As known from previous wire-free cameras it is best to position the camera so that motion is moving from **side-to-side across its field of view** rather than directly toward or away from the camera
- Also, though the camera can detect motion up to **25 feet** (7.6 meters) away, the best area for motion detection is **5 to 20 feet** (1.5 to 6 meters) from the camera position



Auto Zoom & Tracking



- An **Arlo Pro 3 camera** and **Arlo SmartHub** is needed to use Auto Zoom and Tracking and (local live streaming).
- When the Pro 3 camera detects motion, cloud motion recording is triggered.
- When Auto Zoom and Tracking is on, the Pro 3 camera zooms in on the object and tracks its movement while the motion is **within its field of view**.



- If the user is viewing a live stream recording, they can zoom in to any point of the Auto Zoom and Tracking recording.
 - The Pro 3 camera uses its advanced image sensor to enhance the image quality of the zoomed-in area.
 - The zoomed-in image is in **1080p** video resolution.
- The Pro 3 camera automatically creates a curated Auto Zoom and Tracking clip.
 - To access Auto Zoom and Tracking clips, tap **Library** in the Arlo app to view the recordings.

- **CVR – When plugged into AC power**, CVR becomes active on the Pro 3 Camera
 - Full charge not required for CVR to work
 - Arlo Solar Panel will not provide AC power
 - **CVR subscription is required**
- **3-Second Look Back – When plugged into AC power** using the indoor or outdoor magnetic charging cable, the Pro 3 camera records continuously, but discards the video after three seconds if no motion is detected. This means motion-triggered video recordings start before any motion happens.
 - To use 3-Second Look Back, make sure the camera is plugged in and using a motion-detection mode such as Armed.
- **Motion Detection – The Pro 3 camera uses advanced motion detection (**PIR** and **pixel based (Motion Analytics)** motion detection) when **AC powered**.**
 - **Motion Analytics** operate under the following conditions:
 1. **CVR disabled/Charger present/Battery fully charged** - Motion Analytics will be enabled.
Prior to battery fully charged the camera will only use **PIR**
 2. **CVR enabled/Charger present** - Motion Analytics will function immediately regardless of battery level

Activity Zones



- Activity Zones can work **without AC power** when subscribed to an **Arlo Smart** subscription.
 - Pro 3 Activity Zones operate similar to Pro 2.

The image shows two screenshots of the Arlo app's Activity Zones feature. The left screenshot shows a camera feed with a purple rectangular zone overlaid. A green callout box highlights the top-right corner of the zone, which contains a '+' icon. A line points from this icon to the text 'Tap to add Zone'. Another line points from the same corner to the text 'Drag the box to move the Zone'. A third line points from the same corner to the text 'Drag the corners to resize the Zone'. Below the zone, a card labeled 'Zone 1' is shown with a green edit icon. A line points from this icon to the text 'Tap to change the name of the Zone'. At the bottom of the screen are navigation icons for Devices, Library, Mode, and Settings. The right screenshot shows a similar view but with two zones: 'Zone 1' (purple) and 'Zone 2' (blue). A red 'DELETE' button is visible next to 'Zone 1'. Navigation icons are at the bottom.

Activity Zones

Tap to add Zone

Drag the box to move the Zone

Drag the corners to resize the Zone

Tap to change the name of the Zone

Swipe left and tap DELETE to remove the Zone

Devices Library Mode Settings

Activity Zones

Zone 2

Zone 1

DELETE

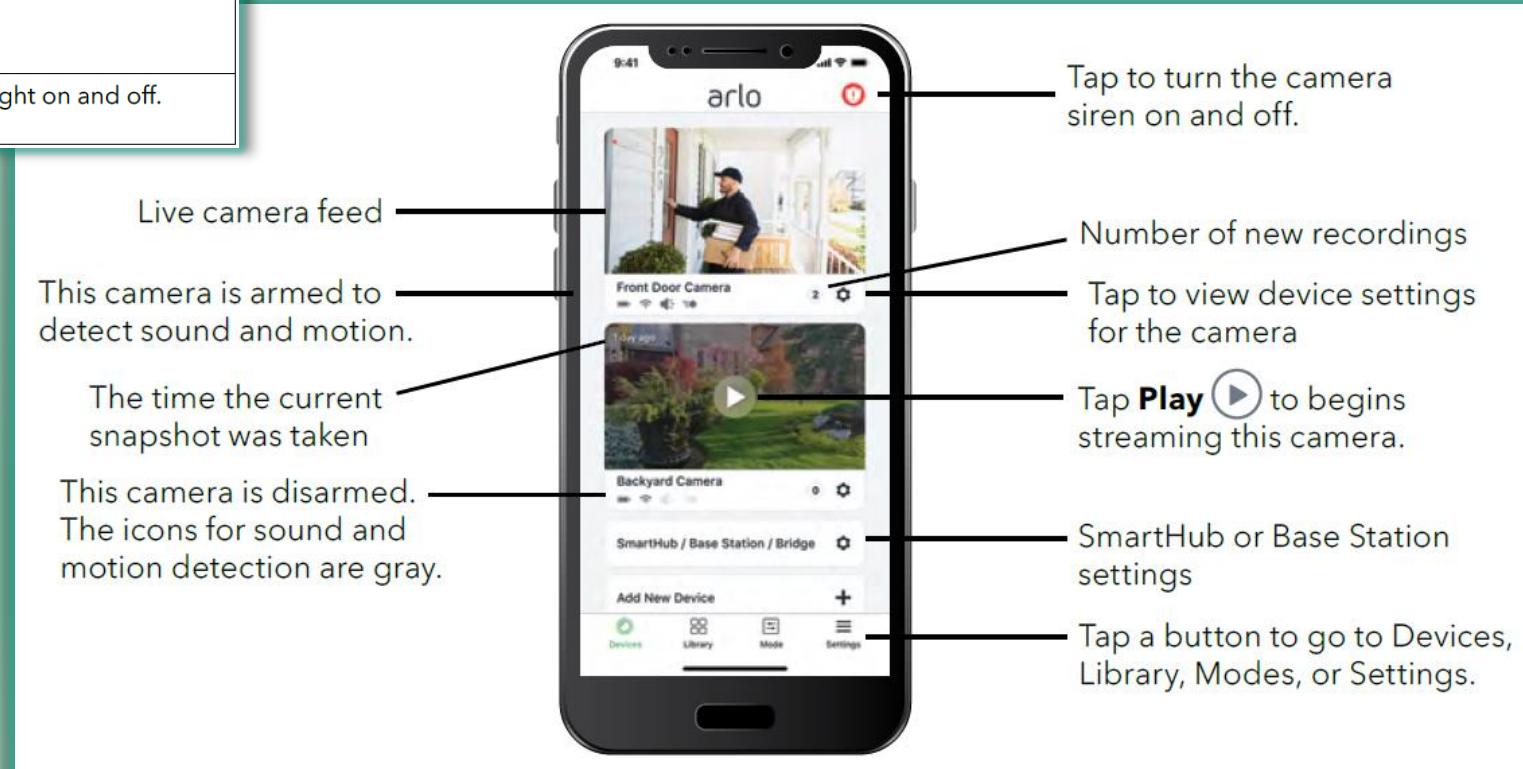
Devices Library Mode Settings

User Interface



Camera icon	Located below each camera feed	Camera feed icon	Tap the camera feed to display these icons
	Battery charge		Play/Stop
	WiFi signal from the SmartHub		Mute the audio
	Audio detection is on		Talk and Listen
	Motion detection is on		Record video manually
...	Select Timeline view (for CVR subscribers) or change camera device settings		Take a snapshot
	View or change the camera settings		Turn the camera spotlight on and off.

The Pro 3 camera user interface is the same as previous cameras



Arlo Pro 3 Camera Battery



The Arlo Pro 3 camera consists of three parts:

- Camera
- Battery
- Camera housing

The battery comes partially charged.

It is recommended to fully charge the battery before using the camera.

To insert the battery:

1. Align the battery and insert it into the battery compartment.

The battery only inserts one way.

The LED on the camera blinks blue.



2. Insert the camera into the camera housing by pushing down on both the left and right sides of the camera until it clicks into place.

Arlo Pro 3 Camera Battery



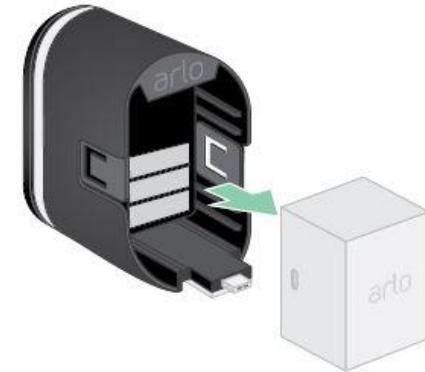
If the battery needs to be removed,
the camera housing can be left in place so the camera position stays the same.

To release the camera from the housing:

1. Press the button next to the charging port underneath the camera.
The camera clicks as it disengages from the camera housing.
2. Pull the camera all the way out of the camera housing.



3. Remove the battery by pulling on it until it slides out of the camera.

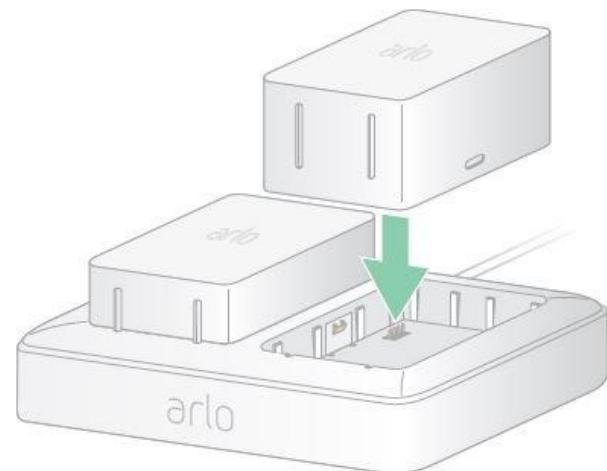


To charge the battery in the camera:

1. Snap the magnetic power cable into the camera charging port.



2. Connect the AC adapter to the power cable and plug it in.



To charge batteries in the charging station:

1. Connect the power adapter to the charging station.
2. Plug the power adapter into an indoor electrical outlet.
3. Insert one or two Arlo rechargeable batteries.

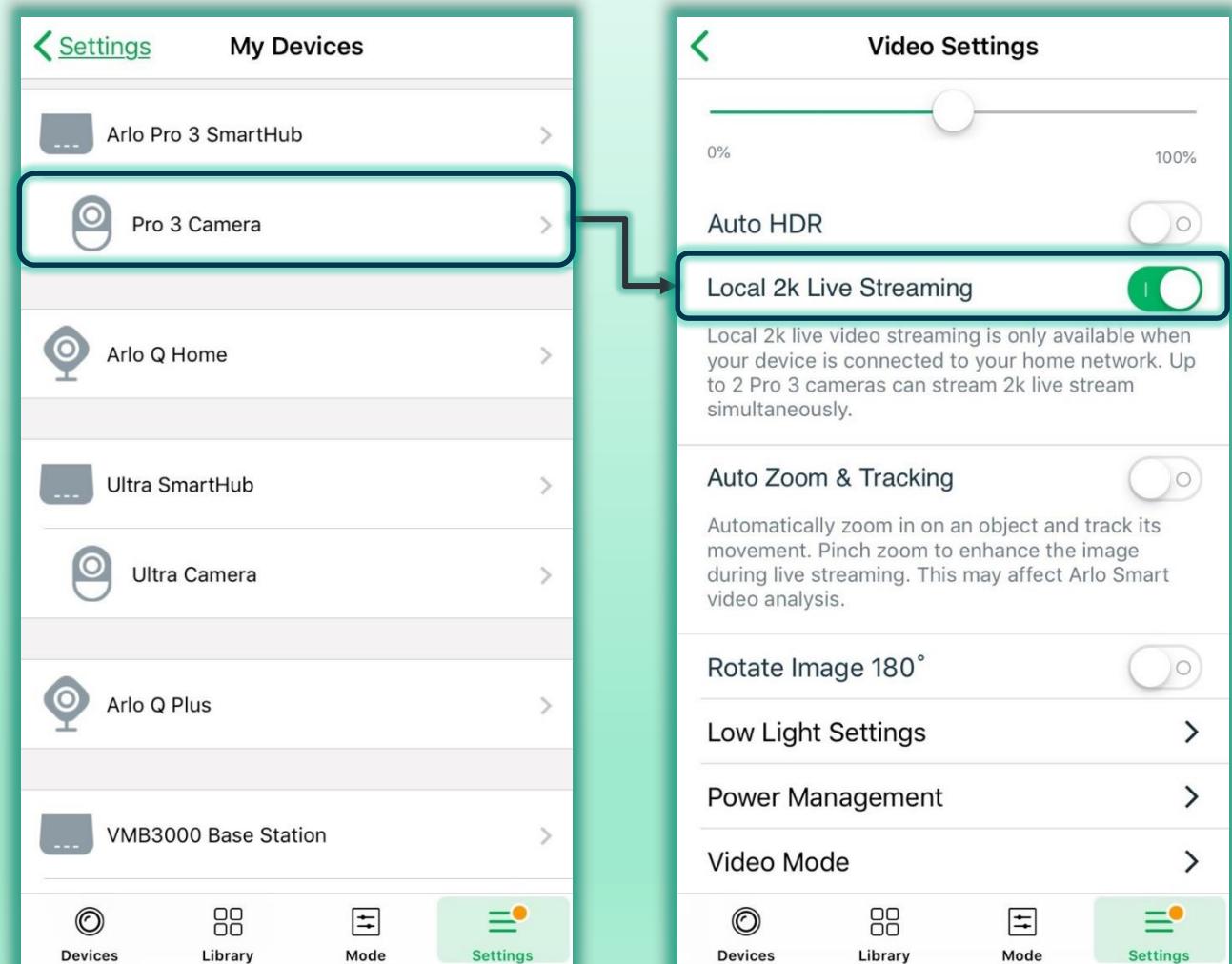
Local 2K Live Streaming



The Pro 3 camera can live stream in 2K resolution in the Arlo app on a mobile device that is on the same local network as the SmartHub.

To enable Local 2K Live Streaming:

1. Open the Arlo app.
2. Tap **Settings > My Devices**.
3. Select the **Pro 3 Camera**.
4. Tap **Video Settings**.
5. Tap **Local 2K Live Streaming**.



Auto Zoom & Tracking



When viewing a live stream recording, Auto Zoom & Tracking lets you zoom into any area of the recording up to 8x.

The image quality of the zoomed-in area doesn't deteriorate, allowing you to view a zoomed-in image with true 1080p video resolution.

To turn on Auto Zoom and Tracking:

1. Open the Arlo app.
2. Tap **Settings > My Devices**.
3. Tap the **Pro 3 Camera**.
4. Tap **Video Settings**.
5. Tap **Auto Zoom and Tracking**.

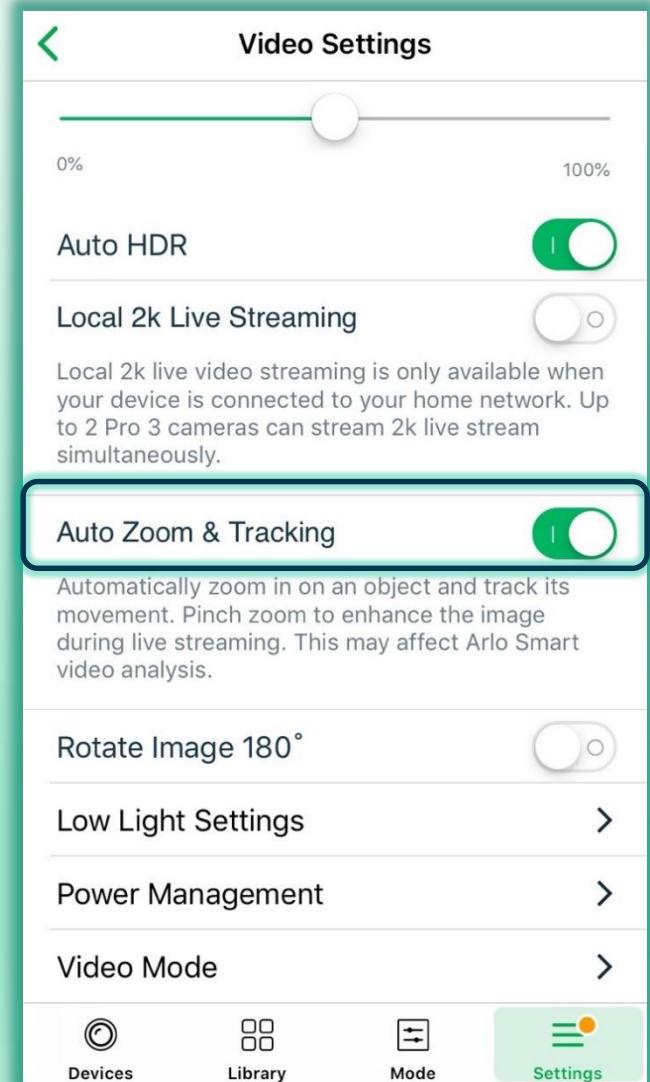
Tap Play on the camera feed.

On a mobile device, use the pinch gesture to zoom, and touch and drag to move around the zoomed-in frame.

On a computer, double-click click to zoom. Left-click and hold and drag to move around the zoomed-in frame.

After zooming in, the image stops and buffers for about five seconds to improve the quality of video.

When the buffering stops, your zoomed-in video renders in high quality.



High Dynamic Range (HDR)



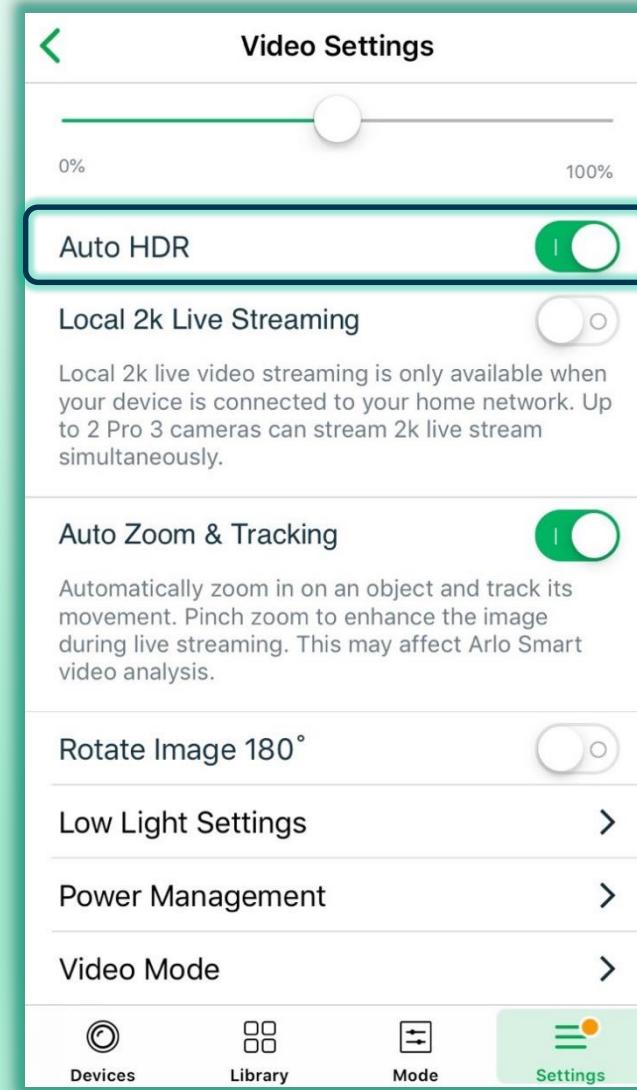
HDR solves the problem with over and under-exposed images of scenes with both bright and dark areas in the same picture.

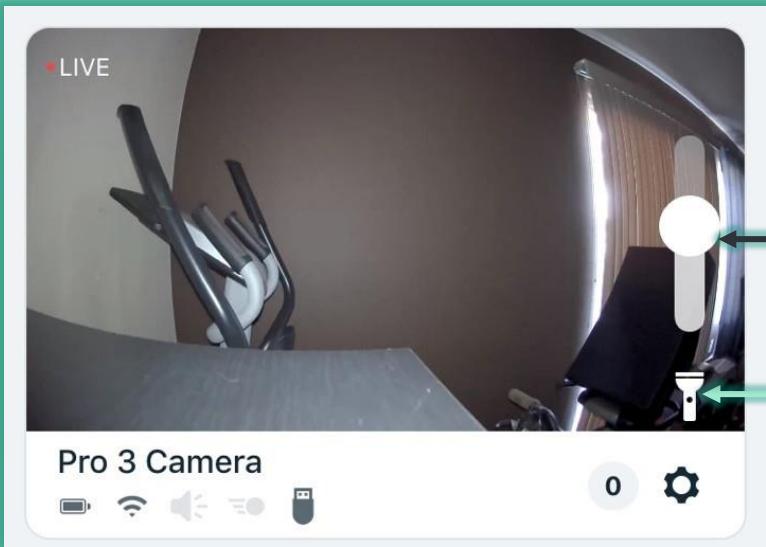
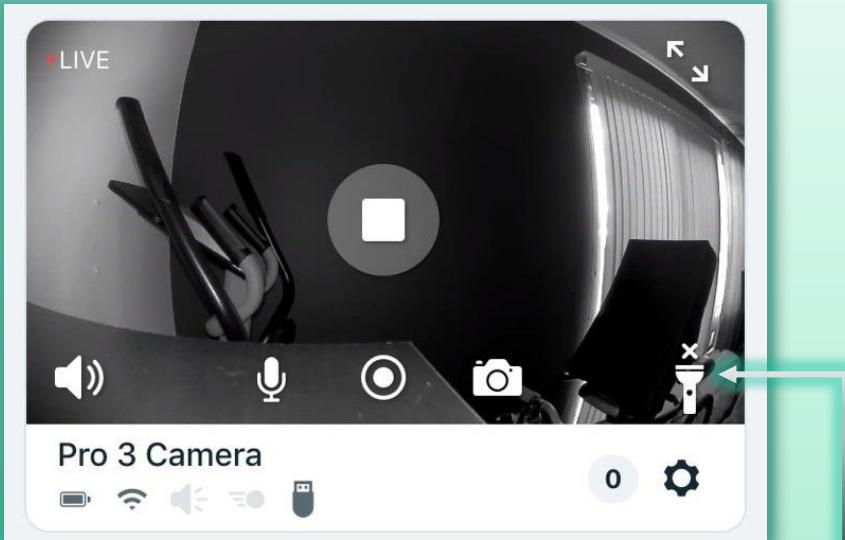
HDR is optimized for outdoor environments.

Arlo Pro 3 automatically determines when to use HDR but it can be turned off.

To turn Auto HDR on and off:

1. Open the Arlo app.
2. Tap **Settings > My Devices**.
3. Tap the **Pro 3 Camera**.
4. Tap **Video Settings**.
5. Tap **Auto HDR**.





- Arlo Pro 3 cameras are equipped with an integrated spotlight that can be activated at night for better video quality.
- The spotlight can be activated manually in the camera feed.

To turn the spotlight on and off from the camera feed:

1. Open the Arlo app.
2. Tap the camera feed.
3. Tap the Spotlight icon.
4. To adjust the brightness, move the slider up or down.
5. To turn off the spotlight, tap the Spotlight icon.

Spotlight



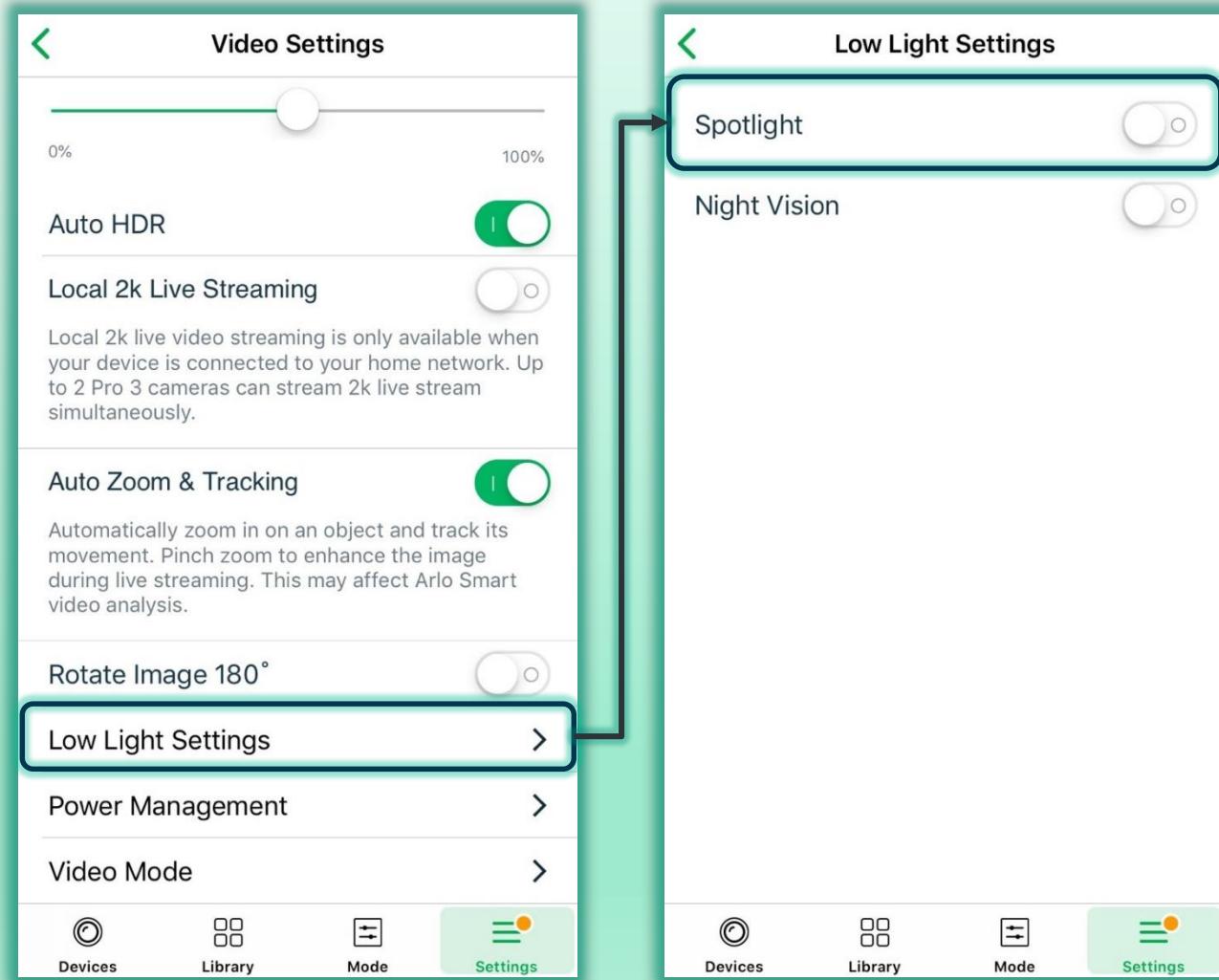
The Arlo Pro 3 camera spotlight is set to automatically turn on when the camera detects motion at night. The spotlight improves video quality and allows the camera to record video in color at night rather than in traditional black and white.

To control whether the spotlight comes on automatically when the Arlo Pro 3 camera detects motion at night:

1. Open the Arlo app.
2. Tap **Settings > My Devices**.
3. Tap the **Pro 3 Camera**.
4. Tap **Video Settings > Low Light Settings**.
5. Tap **Spotlight**.

The Spotlight setting toggles off and on.

When the Spotlight setting is set to the On position, the spotlight automatically turns on when the Arlo camera detects motion at night.



Enhanced Color Night Vision



To output images in color at night, turn on the **Spotlight** and toggle color **On**.

To turn enhanced color night vision off and on:

1. Open the Arlo app.
2. Tap **Settings > My Devices**.
3. Tap the **Pro 3 Camera**.
4. Tap **Video Settings > Low Light Settings**.
5. Tap **Spotlight > Color**.

The Color setting toggles off and on.



Spotlight



Spotlight **behavior** and **brightness** can also be adjusted in the Low Light Settings when the Spotlight is toggled to the **On** position.

Use the slider to adjust **Brightness** from **1%** to **100%**.

The image shows two screenshots of the Arlo mobile application. The left screenshot is titled 'Low Light Settings' and includes the following options: 'Spotlight' (on), 'Color' (on), 'Behavior' (set to 'Constant'), 'Brightness' (set to 76%, with a slider from 1% to 100%), and 'Night Vision' (on). The right screenshot is titled 'Behavior' and lists three options: 'Constant' (selected, indicated by a checkmark), 'Flash', and 'Pulsate'. A callout arrow points from the 'Constant' option in the Behavior screen back to the 'Behavior' section in the Low Light Settings screen.

Constant:

- The Spotlight remains on for however long it is activated.

Flash:

- The Spotlight rapidly flashes on and off.

Pulsate:

- The Spotlight slowly flashes on and off.

Night Vision



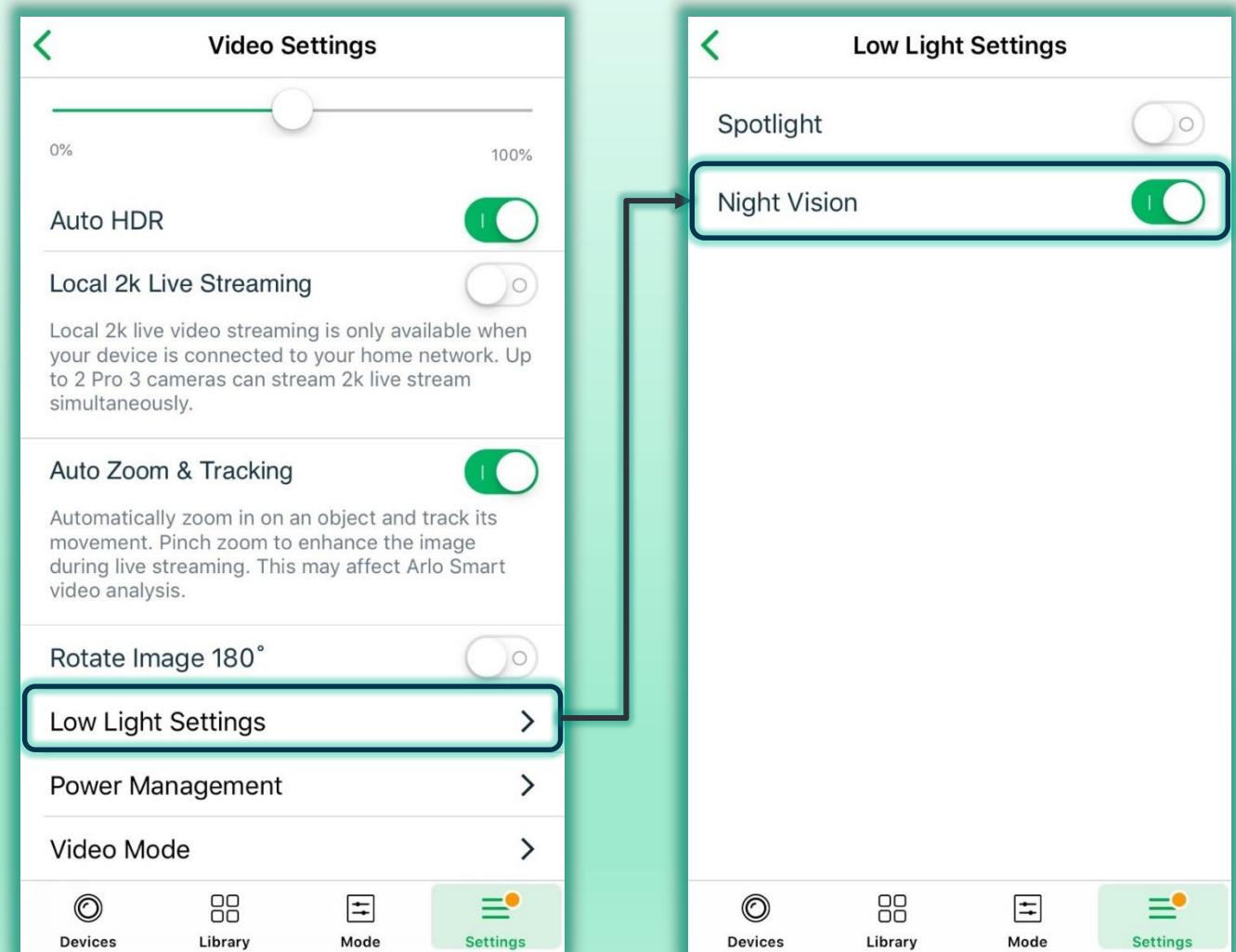
When traditional night vision is enabled, the camera automatically turns on infrared (IR) LEDs to record in low-light conditions.

Arlo recommends to turn night vision off if the camera is facing reflective surfaces, such as windows.

To turn night vision off and on:

1. Open the Arlo app.
2. Tap **Settings > My Devices**.
3. Tap the **Pro 3 Camera**.
4. Tap **Video Settings > Low Light Settings**.
5. Tap **Night Vision**.

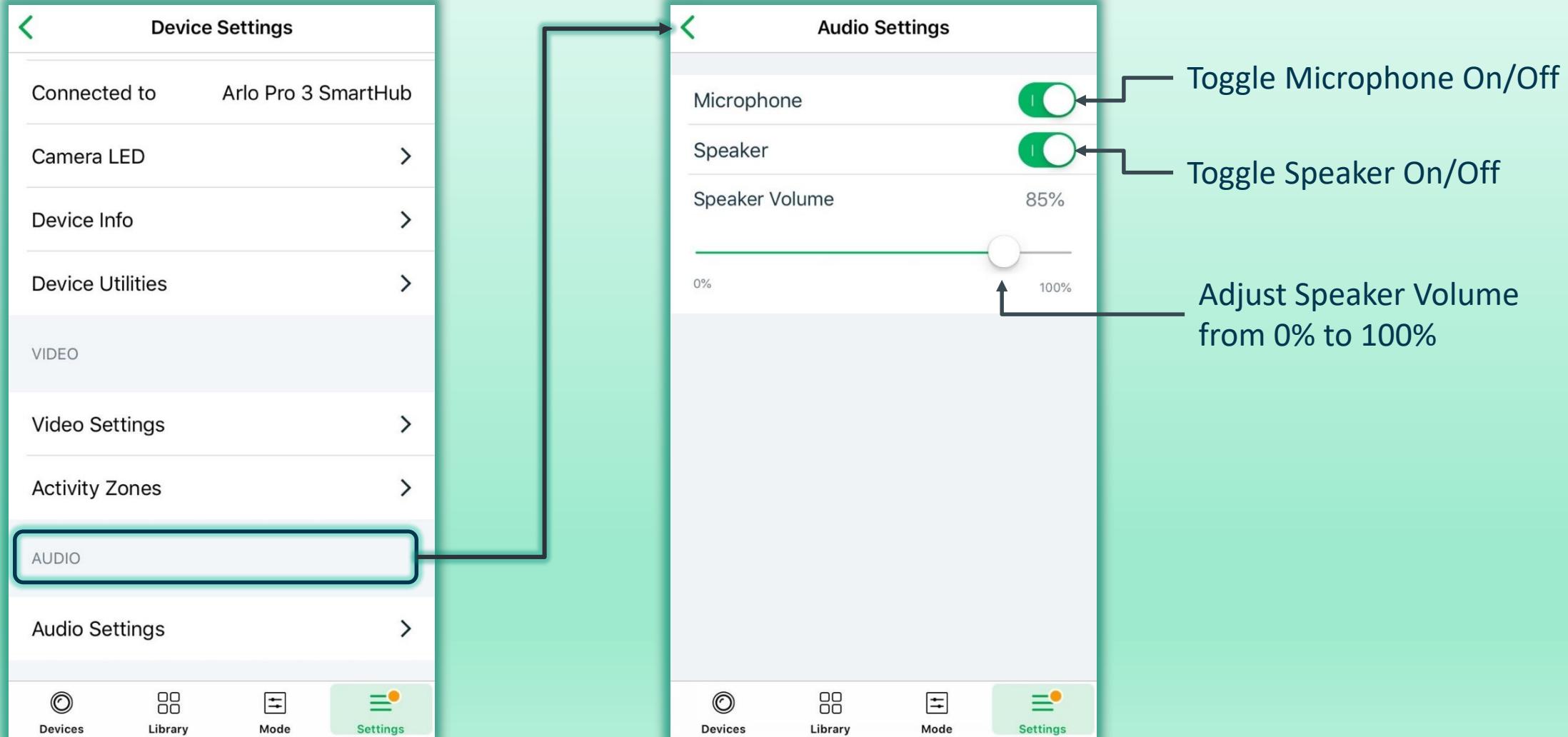
The Night Vision setting toggles off and on.



Audio Settings



To adjust audio settings, tap **Settings > My Devices > Camera > Audio Settings:**



arlo
Pro 3
Smarthub

The SmartHub provides extended battery life and superior long-range wireless coverage, enabling hassle-free communication with other Arlo devices.

SmartHub Specifications

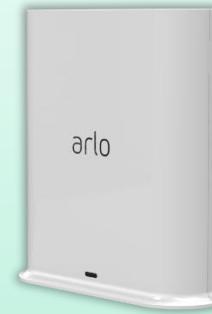
- WiFi
- Frequency: 2.4GHz
- Range: 300 feet line of sight
- ArloRF™ ready
- USB slot for local storage
- Ethernet interface port
- Status LED
- IP Configuration DHCP
- Internal antenna
- Compatible with all Arlo Ultra accessories
- Supported with Arlo Pro SmartHub
 - Z-Wave Plus
 - Zigbee 3.0
 - Arlo RF™

SmartHub Dimensions and Weight

- 6.02 x 5.5 x 2 in (153 x 140 x 52.4 mm)
- .66lb (300g)



SmartHub/Base Station Comparisons



	Arlo Pro and Pro 2	Arlo Pro 3	Arlo Ultra
Name	Arlo Base Station w/Siren	Arlo Pro SmartHub	Ultra SmartHub
Model Number	VMB4500	VMB4540	VMB5000
Siren	Y	In Camera	In Camera
Local Storage	USB	USB	MicroSD
Arlo Wireless Camera Support	All	All	All
2K/4K Streaming Support	N	Y	Y
Arlo Add On Support	Chime, Doorbell	Chime, Doorbell	Chime, Doorbell
Connectivity	Power, Ethernet LAN	Power, Ethernet LAN	Power, Ethernet LAN
Smart Home Support	N	Zigbee/ Z-Wave/ ArloRF	Zigbee/ Z-Wave/ ArloRF
WiFi	2.4Ghz	2.4Ghz	2.4Ghz + 5Ghz

The SmartHub connects to the home network the same way as all other base stations/SmartHubs.

Use the Arlo app to install and set up the SmartHub and Arlo Pro 3 Camera.
The Arlo app guides you through setup (see previous setup slides):

1. Connect the SmartHub to the router with an **Ethernet cable**.
2. Connect the **AC adapter** to the SmartHub and plug it in.

The **LED** on the front of the SmartHub illuminates.

3. Add each **camera** to pair it with the SmartHub.



Pro 3 Local Storage



- USB storage devices can be connected to the SmartHub to store Arlo recordings.
- Recordings are saved to local storage when motion or sound events are triggered.
- The SmartHub supports the following file formats for local storage:
 - FAT16
 - FAT32
 - ExFAT
 - ext2FAT
 - ext3FAT
 - ext4FAT
 - HFS+
- The minimum USB drive size is **16 GB** and the maximum size is **2 TB**.
- The SmartHub supports **USB 2.0** compatible devices.
 - Not all HDDs are compatible with the SmartHub.
- If the SmartHub is not connected to the Internet, recordings continue to be saved on the USB storage device
 - **Note:** This capability is dependent on the last active Mode prior to loss of Internet connection.

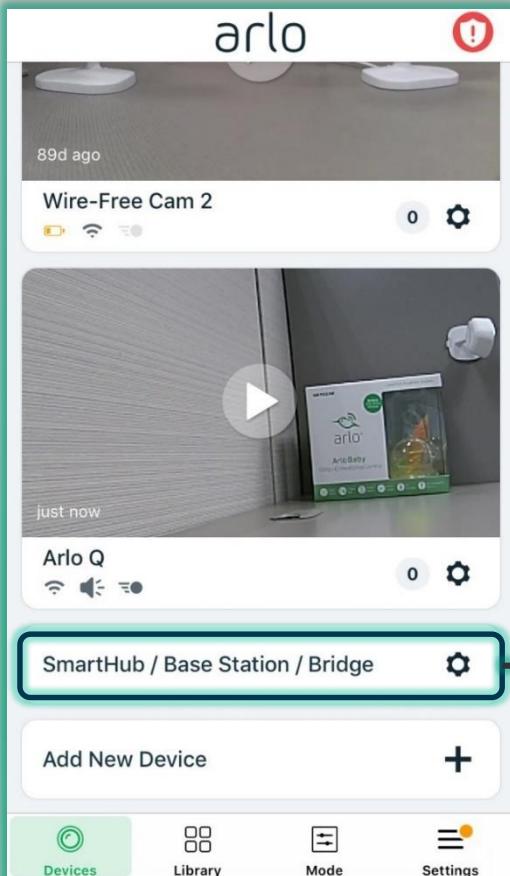


2K Recording



- The recordings saved onto the USB device are **1080p**, but the setting can be changed to save **2K** recordings onto the USB device.
(Local 2K recording is supported on SmartHub/Base Station models **VMB4540**, **VMB5000**, and **VMB4000**)

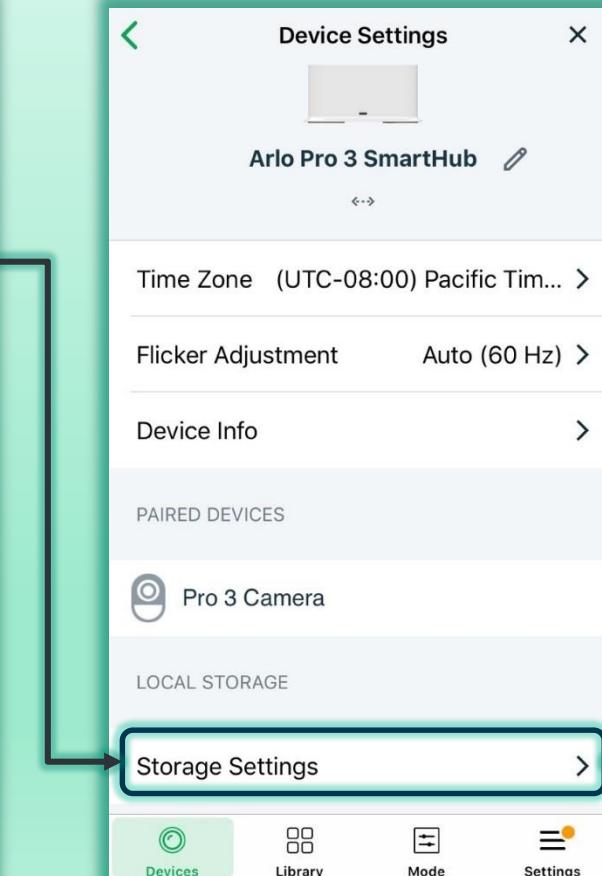
1. Open the Arlo app and tap **SmartHub/Base Station/Bridge**.



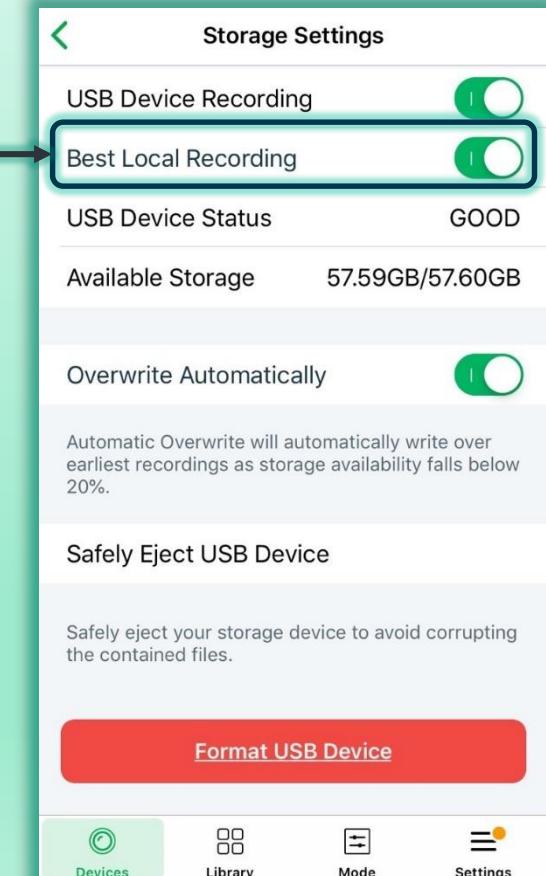
2. Select the **SmartHub/Base Station** that has Pro 3 cameras synced to it.



3. Tap **Storage Settings**.



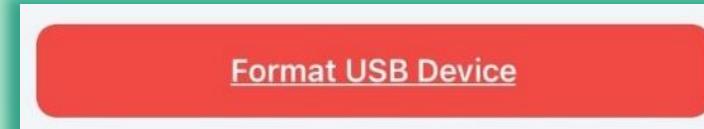
4. Tap **Best Local Recording**.
Local 2K recording turns on.



- The Arlo app displays a pop-up message to let you know if it is necessary to format the USB storage device.
- The SmartHub can format the USB storage device.
 - **Do not** remove the USB storage device while it is formatting.
 - The USB storage device might become permanently unusable.

1. Open the Arlo app and tap **SmartHub/Base Station/Bridge**.
2. Select the applicable **SmartHub**.
3. Tap **Storage Settings**.

If the message **Requires Formatting** appears, the USB storage device is not in the correct format and it must be formatted before it can be used for local storage.

4. Tap **Format USB Device**.
5. Wait for USB Device Status to change from Formatting to **Ready**.

Pro 3 Local Storage



Video clips on USB storage devices do not display in the Arlo app, but a computer can be used to view the clips:



1. Tap **Safely Eject USB Device** on the **Storage Settings** screen.
2. Wait for the **Unmounting USB device** message to close, then remove the USB device from the SmartHub.
3. Insert the USB device into a USB port on a computer.
4. Wait for the USB device to appear in the list of available drives on the computer and open the drive folder to view the files on the USB device.
5. Open the **arlo** folder.
 - Recorded videos saved in the arlo folder are in **MP4** format.
 - Video files are named in the following format:
 - Example: **5GOU812FU5150_00000007_20191003_766985 camera serial number_video number_date_video clip tag**
 - Dates are in the **YYYYMMDD** format

- The table below shows how much storage a **1-minute, 2K recording**, uses on a local storage device with 128GB capacity.
 - It also provides a rough estimate of the number of recordings that fit on the same size storage device at various bitrates. Remember, the table below is only meant to serve as a guide and is not exact.
- The Pro 3 camera only supports two resolutions: **2K** and **1080p**
- When the user is managing the Power Management settings of the camera (Best Video, Optimized, Best Battery Life), **only the bitrates are changed** (the camera resolution does not change).
- The following table is based on constant bitrate during the stream, **per Power Management setting**, and should be used only as approximate guidance. (The number of recordings are also based on some of the card space reserved for file management)

		Best Video	Optimized	Best Battery Life
2K	Target Bitrate	2 Mbps	1 Mbps	750 Kbps
	1 Minute Recording Size	15 MB	7.5 MB	5.5 MB
	Number of Recordings	8378	17466	238831
1080p	Target Bitrate	1.25 Mbps	600 Kbps	400 Kbps
	1 Minute Recording Size	9.375 MB	4.4 MB	2.93 MB
	Number of Recordings	13980	29789	44734



Pro 3

Troubleshooting

Arlo Pro 3 Camera LED Behavior



Note: The Ultra Camera LED blinks blue once when it is first powered on

Solid Blue

- The camera is pairing with the SmartHub

Slow Blinking Blue

- The camera is pairing with the SmartHub

Fast Blinking Blue

- The camera has paired with the SmartHub

Fast Blinking Amber

- The camera did not sync with the SmartHub

Slow Blinking Amber

- The camera can't be found, is out of range, or some other connection error occurred during the pairing process
- The camera battery is low

Alternating Blue and Amber

- A firmware update is in progress
- A reset is in progress



Arlo Pro 3 SmartHub LED Behavior



Note: SmartHub blinks once when it is first powered on

Solid Blue

- Connected to the internet

Slow Blinking Blue

- Ready to sync and pair with a camera
- Connecting with a camera

Fast Blinking Blue

- SmartHub has successfully paired with a camera

Solid Amber

- An error has occurred or something is wrong with the connection

Slow Blinking Amber

- SmartHub cannot be found, is out of range, or some other connection error has occurred

Alternating Blue-Amber

- A firmware update is in progress
- A reset is in progress



Backwards Compatibility Summary



Which Base Stations and SmartHubs are compatible with Pro 3 cameras and which features are supported?

	VMB5000	VMB4540	VMB4000	VMB4500
2K video resolution with HDR (cloud storage)	Yes, with the appropriate Smart plan	Yes, with the appropriate Smart plan	1080p (with Smart plan)	1080p (with Smart plan)
2K local live streaming	Yes	Yes	Yes	1080p max
2K local storage	Yes	Yes	Yes	1080p max
Auto Zoom and Tracking	Yes	Yes	Yes	Yes
Color Night vision	Yes	Yes	Yes	Yes
An integrated spotlight	Yes	Yes	Yes	Yes
160-degree max field of view (FoV)	Yes	Yes	Yes	Yes
An integrated smart siren	Yes, in camera	Yes, in camera	Yes, in camera and base station	Yes, in camera and base station
A free Arlo Smart subscription trial	Yes	Yes	Yes	Yes

Backwards compatibility details for **VMB4000** and **VMB4500** (as of October 2019)

- **VMB4000** - When a Pro 3 is paired with the VMB4000, the user can experience Local 2K Live Streaming and Local 2K Storage.
 - A USB device is needed to enable Local 2K Storage.
- **VMB4500** - Pairing a Pro 3 camera with the VMB4500 lets the user stream and record in 1080p video resolution.

As of October 2019, 2K Cloud recording is **not** available when a Pro 3 camera is synced to a VMB4000 or VMB4500. There is no ETA from Engineering.

NOTE: *VMB3000 and VMB3500 are NOT compatible with Pro 3 cameras*

For more details, see <https://kb.arlo.com/000062253/Is-Arlo-Pro-3-backwards-compatible-with-my-existing-Arlo-system>

HEVC Compatibility



High Efficiency Video Coding (HEVC or H.265) is a video compression standard that enables the user to download and stream 2K videos. To use HEVC on the Arlo app, the user must use a supported device and meet the minimum requirements.

To support HEVC, the device must run one of the following:

- iOS 11.0 or higher
- Android 5.0 or higher
- The latest version of the Arlo app
- A web browser that supports HEVC.
 - To check if the web browser supports HEVC, see <https://caniuse.com/#feat=hevc>

HEVC is supported on the following devices:

- iPhone 7/7 Plus or newer
- iPad Pro or newer
- Samsung Galaxy S7/S7 Plus or newer
- Galaxy Note 8 or newer
- Google Pixel/Pixel XL or newer
- Huawei P9 or newer
- Xiaomi Mi 5 or newer
- LG G5 or newer
- HTC U10 or newer
- Sony Xperia X or newer
- Moto Z or newer
- OnePlus 3 or newer

**H.265
HEVC**

High Efficiency Video Coding

Tips for Optimal WiFi Performance



Place the Arlo Pro 3 camera in a location with a good WiFi signal to the SmartHub.

The distance between WiFi devices can affect the WiFi signal:

Maximum recommended distance.

- Place the camera a maximum of **300 feet** (90 meters) from the SmartHub.
- The maximum line-of-sight range of 300 feet is reduced by each wall, ceiling, or other major obstruction between the camera and SmartHub.

Minimum recommended distance.

- To reduce WiFi interference, place the SmartHub **6 feet** (1.8 meters) away from the WiFi router.
- Place the Arlo Pro 3 cameras **10 feet** (3 meters) away from the SmartHub, and allow at least **6½ feet** (2 meters) between cameras.

The following materials can reduce WiFi signal strength if they are located between WiFi devices such as the SmartHub and Arlo Pro 3 cameras:

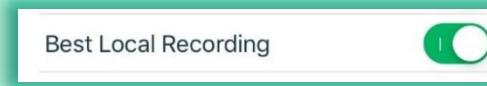
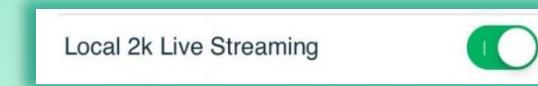
- Unusually thick walls and ceilings
- Brick, concrete, stone, and ceramic
- Glass, especially mirrors
- Metal
- Large quantities of water, such as the water in a fish tank or water heater

Optimize multiple 2K streams



- Pro 3 users may experience connectivity issues if they are running **multiple 2K live streams** in the Arlo app
- To optimize connectivity, check the **network environment** and adjust the **Pro 3 camera settings as needed**
- Make sure your average bandwidth speed is at least **2 Mbps**.
 - To check the Internet speed, visit www.speedtest.net
 - The result of the Internet speed test might change, depending on varying amounts of traffic.
 - For accurate results, run the speed test several times
- If connectivity issues are still experienced after checking the WiFi connection and Internet speed, perform the following tasks until the connection is back to normal

Adjust the Arlo Pro 3 Camera settings in the Arlo app:

1. Change the power management settings on each camera (one camera at a time) to **Optimized**.
2. Change the power management settings on each camera (one camera at a time) to **Best Battery Life**.
3. Turn off **Best Local Recording** (2K USB recording).
A screenshot of the Arlo app interface showing a white rectangular button with a black border. Inside the button, the text "Best Local Recording" is centered above a toggle switch. The toggle switch is currently in the "on" position, indicated by a green circle on the right side of the switch.
4. Turn off **Local 2K Live Streaming**.
A screenshot of the Arlo app interface showing a white rectangular button with a black border. Inside the button, the text "Local 2k Live Streaming" is centered above a toggle switch. The toggle switch is currently in the "on" position, indicated by a green circle on the right side of the switch.

Geofencing Accuracy



For accuracy, geofencing uses a combination of GPS, cellular data, and WiFi data.

The local environment affects geofencing:

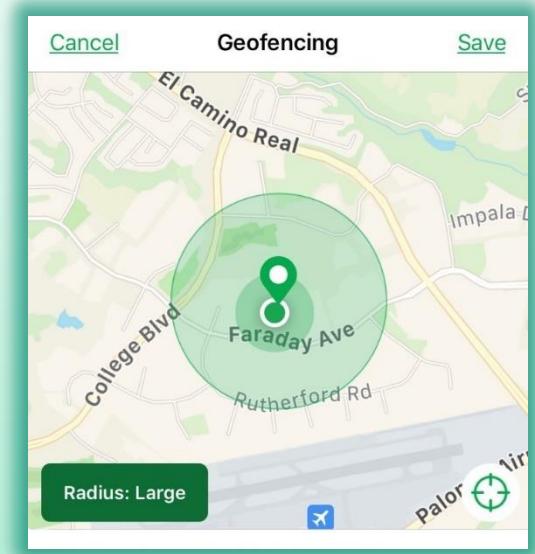
- In urban environments, where the cell towers and WiFi routers are more dense, geofencing accuracy can reach **100-200 meters**.
- In a high rise building, geofencing may not work reliably due to GPS inaccuracies.
 - Using the **Large radius setting** might help.
- In rural areas, where cell towers and WiFi routers are sparse, geofencing accuracy can reach **several hundred meters**.

To improve geofencing accuracy, make sure the mobile device meets the following conditions:

- **WiFi** is turned **on**.
- **GPS and/or location services** are turned **on**.

For Arlo Geofencing to work on the device, adjust the settings as follows:

- Android devices
 - Location permission: **On**
 - Location services: **On**
 - Battery saver: **Off**
 - Data limit: **Off**
 - Airplane mode: **Off**
- iOS devices
 - Share my location: **On**
 - Location services: **Always**
 - Airplane mode: **Off**



- The Arlo Pro 3 Camera is flexible and can be used in a wide range of environments
 - Different environments might include elements that **affect battery life**
- In some cases the Arlo Pro 3 camera may use more battery life than others:
 - Arlo Pro 3 cameras work well in the dark
 - They use infrared sensors to monitor motion in the dark
 - Infrared sensors **use more battery power** than cameras monitoring motion in a well-lit room
- Cameras positioned farther away from the SmartHub use more battery power than cameras positioned close
 - Position cameras **closer to the SmartHub when possible**
- The Arlo Pro 3 camera lets you choose the quality level of the video it records
 - Cameras set to high-quality video recording use more battery power than cameras set to low-quality video recording
 - To extend battery life, select the **Best Battery Life** setting
 - This setting trades video quality for improved battery life
- The camera battery might drain faster in a noisy WiFi environment
 - Use a WiFi analyzer to **test the WiFi noise** in the environment

The amount of energy that the Arlo Solar Panel can produce depends on several factors:

- average sun exposure
- weather conditions
- tilt angle
- dust and debris



- A solar panel in the same location might produce a different amount of energy at noon in December than at noon in June
 - The same panel might produce more energy in one geographic location and less in another
 - In both situations, the difference is based mainly on the amount of sunlight that the solar panel receives
- **To optimize the effectiveness of the solar panel:**
 - Choose a location for the solar panel that gets **plenty of sunlight**
 - **Avoid spots that are in the shade** for a significant portion of the day
 - Mount the solar panel facing true south (in the northern hemisphere) or true north (in the southern hemisphere) and **tilt it to the appropriate angle** for your latitude
 - For help finding the right orientation and tilt angle, download the free SimplySolar app for iOS or Android
 - Wipe the panel every few months to **remove dust and debris** that might affect the solar energy-harvesting efficiency of the panel

Reset SmartHub to Factory Settings



Performing a factory reset returns the SmartHub to the default settings.

To reset the SmartHub:

- Use a straightened paper clip to **press and hold the Reset button** on the back of the SmartHub for about **10 seconds**.
- When the SmartHub reset completes, the LEDs on the front of the SmartHub **blink amber**.
- When the LEDs stop blinking amber, the SmartHub reboots.
- The SmartHub is removed from the Arlo account.



- For more details on Arlo Pro 3 refer to the following Knowledge Base articles:
 - Arlo Pro 3 **FAQ**
 - Arlo Pro 3 **Product Tour**
 - What are the **features and specifications** of the Arlo Pro 3 camera?
 - What kind of **features** do I get with the Arlo Pro 3 camera?
 - Is Arlo Pro 3 **backwards compatible** with my existing Arlo system?
 - My Arlo **SmartHub** or base station is **offline**; how can I troubleshoot it?
 - How do I **stream in 2K** with my Arlo Pro 3 camera?
 - How does my Arlo Pro 3 camera **use 2K**?
 - How do I **turn the siren on** my Arlo Ultra or Arlo Pro 3 camera on or off?
 - How do I mount my Arlo Ultra or Pro 3 camera using the **magnetic wall mount**?
 - What is the **magnetic charger** that came with my Arlo Ultra or Pro 3 camera?
 - What options will I have when the **Arlo Smart 3-month trial** plan ends?
 - How do I **change the battery** in my Arlo Ultra or Arlo Pro 3 camera?
 - What are the available **Arlo subscription plans** and how much cloud recording is available?
 - How do I use **HDR** with my Arlo camera?
 - How does the **spotlight** on my Arlo camera work?
 - What is **Auto Zoom and Tracking** and how do I use it?
 - Arlo Pro 3 **Product Comparison** (INTERNAL)
 - Arlo Pro 3 **Backwards Compatibility** Summary (INTERNAL)
 - Arlo Pro 3 **Unable to Activate 3-month Free Trial** Call Handler (INTERNAL)
 - Arlo Pro 3 **Camera O-ring** Call Handler (INTERNAL)

END

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Pro 3