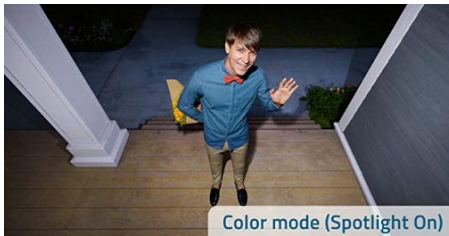


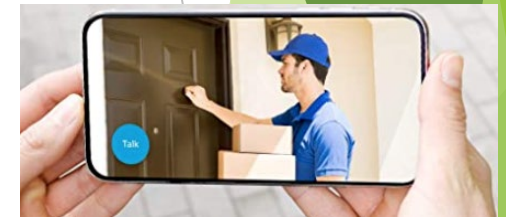


Do It Yourself (DIY) Outdoor Security Cameras



NEIGHBORS HELPING NEIGHBORS IN LUNADA BAY WEST

March 2022 via Zoom



AGENDA

- I. Objectives Of This Session
- II. Why Outdoor Security Cameras Now?
- III. Cameras Became Affordable and Easy To Use
- IV. Know Before Installation
- V. Useful Camera Features
- VI. Best Places To Install Cameras
- VII. Popular Camera Brands Overview – Ring, Blink, Arlo, Wyze, Eufy and Google
- VIII. How Long Does A Battery Last?
- IX. When You Are Ready To Start ...
- X. Setting Up a Camera, Ring Example
- XI. Final Thoughts

OBJECTIVES FOR THIS SESSION

- I. **Sharing Information of the DIY (“Do-It-Yourself”) Installation Experience**
- II. **Form Support Network for Your Project**

WHY OUTDOOR SECURITY CAMERAS NOW?

Increased Crimes Around Our Homes

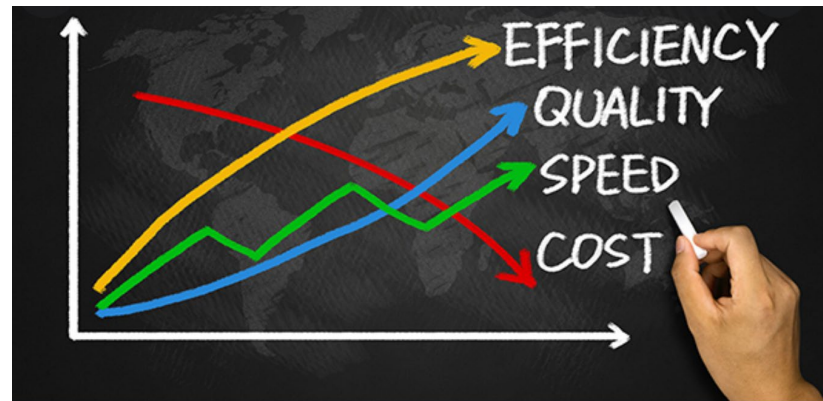
- ❖ Mail Thefts
- ❖ Package Thefts
- ❖ Catalytic Converter Thefts
- ❖ Vehicle Thefts/Vandalisms
- ❖ Home Break-Ins

WE NEED MORE EYES AROUND HOME!



Wi-Fi CAMERAS BECAME AFFORDABLE AND EASIER TO USE

- **Affordability** - Better resolution lenses, faster wi-fi, and low-cost memory made security cameras more affordable
- **Remote Access** – We can watch our property from wherever we are
- **Crime Deterrence** - Burglar may move onto another house when they see a camera
- **Alert Notification** – Sends alert to our cellphone when a camera detects a motion, i.e. a person
- **Record Video Footage** – Video will help with police work (if ever needed)



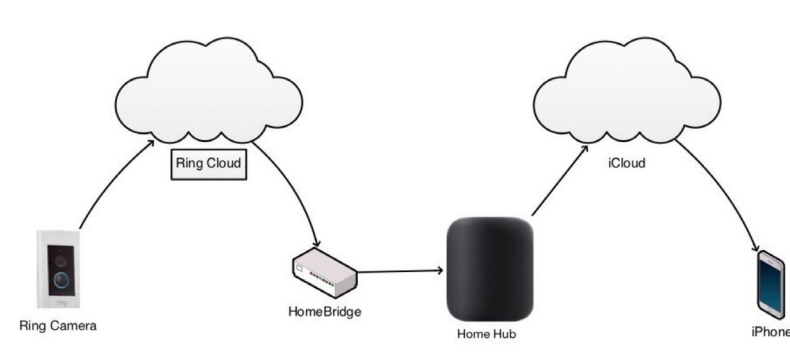
KNOW BEFORE INSTALLATION

- **Wireless** – A wifi camera requires no data cable
- **Motion Activated Recording** – Wi-fi cameras are generally designed to record only when a motion is detected. Popular duration is about 1 minute.
- **Area Coverage** – Which area(s) do you want to be surveilling?
- **Power Source** – Wired (AC) vs. Battery
 - **Wired** supplies electricity without charging battery. Installation requires basic electric wiring knowledge.
 - **Battery** powered units require no electric wiring work. The battery needs to be charged periodically. Lithium batteries became long-lasting. Many last for several months depending on the usage. Many can be recharged by a dedicated solar panel.
- **Good WiFi Signal is a MUST!** – Wi-fi signal must be available where a camera is installed. Camera will not work with a poor wi-fi signal. Consider using a wi-fi extender device where needed.
- **Video Replay** – After receiving an alert, it takes a few seconds for the video to be available. (please be patient)



FEATURE HIGHLIGHTS

- **Mobile App** – App is the standard method to monitor and control the cameras.
- **Recording** – When a camera detects a movement, it starts recording. Record length can be set by the user. For Ring, default recording is one (1) minute up to two minutes. Multiple (up to 2) cameras can be linked to trigger simultaneous recording.
- **Night Vision** – This is standard for most of the major brands.
- **Light Source** – Many outdoor cameras come together with motion-activated lights. Light enhances pictures and also acts as deterrence to criminals.
- **Two-Way Talk Capability** – This is standard for most of the major brands now.
- **Siren** – Most of the brands and units offer user activated siren.
- **How to Connect to Wi-Fi** – Most cameras connect directly to wi-fi. Some come with a base unit which control the cameras' wi-fi connection and memory.



BEST PLACES TO INSTALL CAMERAS

Source: CNET Article on 2021-09-18

Install cameras **8-10 feet** from the ground.

This height is low enough to capture fine details but high enough to be out of easy reach of thieves and vandals

1. Exterior: Front Door

Statistics from the International Association of Certified Home Inspectors show that 34% of burglars use the front door. It's also where package thieves are likely to strike. A camera at your main entrance keeps tabs on everybody going in and out of your home. Video doorbells are great picks for the front door. You can use them as the primary camera or in conjunction with another outdoor camera.

2. Exterior: Back & Side Doors

Doors that are out-of-sight allow visitors to enter undetected. Statistics show 22% of break-ins happen through the back door. So add cameras to your secondary doors, especially if one of them is used as often or more often than your front door.



BEST PLACES TO INSTALL CAMERAS Cont'd

Per CNET Article on 2021-09-18

3. Exterior: Garage & Driveway

Garages are a common target of burglars because they're one of the weakest entry points. A camera pointed at your garage and/or driveway keeps a watchful eye on things. If your garage is detached, the camera helps you stay connected. If the garage is attached, the extra layer of security monitors another possible entryway into your home.

If there's a gate at the end of your driveway, you may want a camera there to spot anyone attempting to get in.

4. Exterior: Yard

Monitoring the yard will help you keep tabs on anyone scoping out your house from the outside. It's also handy for capturing the activities of trespassers.



POPULAR CAMERA BRANDS

- **Ring** – The company is owned by Amazon. Alexa (Amazon Echo) integration is possible. Products are available from Amazon or RING's webpage.
- **Blink** – The company is owned by Amazon. Alexa integration is possible. Products are available from Amazon or Blink's webpage.
- **Arlo** – The company is owned by Anker. Some models require base station. The base station regulates wi-fi traffic. Alexa, Apple HomeKit, or Google Assistant integration possible. Products are available from Costco, Amazon or Arlo's webpage.
- **Wyze** – The company was founded in 2017 and owned partly by Anker. Alexa or Google Assistant integration is possible. Products are available from Amazon or Wyze's webpage.
- **Eufy** – The company was founded in 2011 and owned by Anker. The products are available from Amazon and Eufy's webpage.
- **Google Nest** – Google's security cameras. They are available from Amazon or Google webpage.

Ring

Prices are informational and subject to change
Pixel is abbreviated to “p” and High Definition is abbreviated to “HD”

3/19/2022 11

Camera Type	Power Source	Other Details
Video Doorbell	Battery or Wired (AC)	For front door in 1080p HD color
Floodlight Cam	Wired (AC)	1080p HD color with Night Vision and 2000 lumens light
Spotlight Cam	Battery or Wired (AC)	1080p HD color with Night Vision and 300 lumens light



Video Doorbell
Approx. \$180 to \$200



floodlight Cam Wired
Approx. \$250



Spotlight Cam Wired
Approx. \$200



View from the App

- ✓ Two-Way Talk - We can talk or listen through all the cameras remotely
- ✓ “Siren” on demand
- ✓ “Ring Protection Plan” (subscription) allows to store the videos in the cloud up to 60 days. \$100 per year covers multiple cameras. If we only have one camera, \$30 per year
- ✓ Video is stored in the cloud up to 60 days. We can download to the local storage.
- ✓ Motion activated recording plus interval snapshots.
- ✓ Monitor and control from a cell phone app

Camera Type	Power Source	Other Details
Video Doorbell	Battery	For front door in 1080p HD color
Floodlight Cam	Battery	1080p HD color with Night Vision and 700 lumens light
Outdoor Cam	Battery	1080p HD color with Night Vision



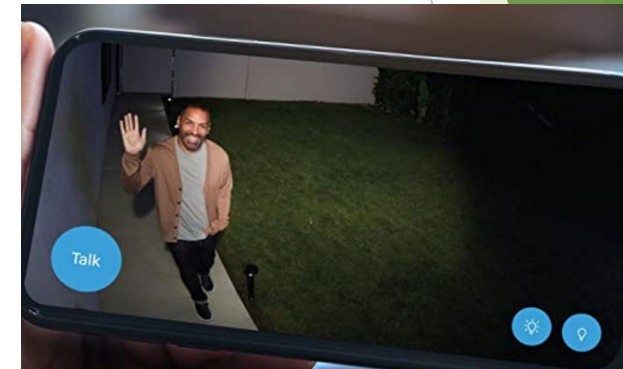
Video Doorbell
Approx. \$50



Floodlight Cam
Approx. \$140



Outdoor Cam
Approx. \$100



View from the App

- ✓ Two-Way Talk - We can talk or listen through all the cameras remotely
- ✓ “Siren” on demand for floodlight and spotlight cams
- ✓ “Blink Subscription” allows to store the videos in the cloud. It is \$10 per month for unlimited # of cameras. If we only have one camera, \$3 per month. Also, local storage, the Blink Sync Module 2 is available via a USB flash drive (sold separately).
- ✓ Battery life up to 2 years (depending on the use)
- ✓ Video is stored up to 60 days
- ✓ Motion activated video recording.
- ✓ Monitor and control from a cell phone app

Camera Type	Power Source	Other Details
Video Doorbell	Battery	For front door in 2K color
Floodlight Cam Pro 4	Battery	2K color with Night Vision and 700 lumens light
Spotlight Cam Pro 4	Battery	2K color with Night Vision and 400 lumens light



Video Doorbell
Approx. \$150



Floodlight Cam
Approx. \$250



Outdoor Cam
Approx. \$180



View from the App

- ✓ Two-Way Talk - We can talk or listen through all the cameras remotely
- ✓ “Siren” on demand for floodlight and spotlight cams
- ✓ “Arlo Premier Plan” allows to store videos in the cloud. It is \$9.99 per month for unlimited # of devices, and \$14.99 per month for “Elite Plan”
- ✓ Battery lasts up to 6 months (depending on the use)
- ✓ Motion activated video recording.
- ✓ Monitor and control from a cell phone app

Prices are informational and subject to change
Pixel is abbreviated to “p” and High Definition is abbreviated to “HD”

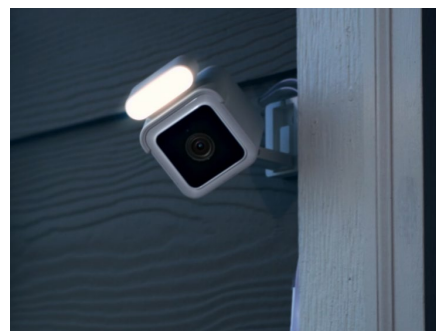
Camera Type	Power Source	Other Details
Video Doorbell	Battery	1080p HD color with Night Vision
Floodlight Cam	Wired (AC)	1080p HD color with Night Vision and 2600 lumens light
Spotlight Cam	Battery	1080p HD color with Night Vision and 70 lumens light



Video Doorbell
Approx. \$80



Floodlight Cam
Approx. \$85



Spotlight Cam
Approx. \$50



View from the App

- ✓ Two-Way Talk - We can talk or listen through all the cameras remotely
- ✓ “Siren” on demand for floodlight and spotlight cams
- ✓ “Cam Plus” allows to store videos in the cloud. It is \$1.25 per month per camera
- ✓ The video can also be stored in MicroSD card (32GB) – Card fits inside the camera.
- ✓ Motion activated video recording
- ✓ Monitor and control from a cell phone app

Camera Type	Power Source	Other Details
Video Doorbell	Battery or Wired (AC)	1080p HD or 2K color with Night Vision
Floodlight 360 Cam	Wired (AC)	360 view 2K color with Night Vision and 2600 lumen light
Floodlight Cam	Wired (AC)	2K color with Night Vision and 2500 lumen light
Eufy Cam 2C Pro	Battery (6 mo)	2K color with Night Vision



Video Doorbell
Approx. \$100 to \$150



Floodlight 360 Cam
Approx. \$300



Floodlight Cam
Approx. \$180



2C Pro Cam
Approx. \$130



[View on the App](#)

- ✓ Home base unit is required. Home base relays and controls wi-fi.
- ✓ Two-Way Talk - We can talk or listen through all the cameras remotely
- ✓ “Siren” on demand for floodlight and spotlight cams
- ✓ Subscription allows to store videos in the cloud. “Base” is \$2.99/month per camera. “Premier” is \$9.99/month up to 10 cameras.
- ✓ Motion activated video recording.
- ✓ Monitor and control from a cell phone app

Camera Type	Power Source	Other Details
Video Doorbell	Battery or Wired (AC)	960x1280p HD color with Night Vision
Floodlight Cam	Wired (AC)	1080p HD color with Night Vision and 2400 lumen light
Outdoor Cam	Battery	1080p HD color with Night Vision



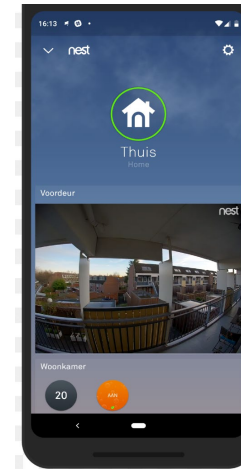
Video Doorbell
Approx. \$180



Floodlight Cam
Approx. \$280



Outdoor Cam
Approx. \$180



View from the App

- ✓ Two-Way Talk - We can talk or listen through all the cameras remotely
- ✓ “Siren” on demand for floodlight and spotlight cams
- ✓ “Nest Aware” subscription allows to store videos in the cloud. It is from \$6 to \$12 per month
- ✓ Motion activated video recording
- ✓ Monitor and control from a cell phone app

HOW LONG DOES A BATTERY LAST?

Based on average usage

Source: Manufacturers' Webpage Advertisement

Brand	How long does the battery last ?	Rechargeable?	Battery Type
Ring	6-12 months	Yes	Lithium-Ion
Blink	Up to 24 months	No	Size AA Lithium
Arlo	3-4 months	Yes	Lithium-Ion
Wyze	3-6 months	Yes	Lithium-Ion
Eufy	12 months	Yes	Lithium-Ion
Google	3 months	Yes	Lithium-Ion

WHEN YOU ARE READY TO START...

1. Decide where to install the camera(s) and check the wi-fi signal strength. When the signal is weak, the camera may not work.
2. For the area with weak wi-fi signal, avoid the camera installation or enhance the signal before the installation. Signal can be enhanced by wi-fi extender devices, e.g. Ring Chime Pro, Google Home (Nest), etc.
3. Purchase the camera(s)
If you are installing both doorbell and camera, it would be best to select the same brand for both so that you can monitor them from one App. In alternative, you can set up cameras by multiple brands with Alexa, Apple Home, etc.
2. Install the camera(s) – There are many helpful YouTube videos that show “how to” by each brand.
3. Download the App to your cell phone
4. Set up the products using the App – There are many helpful YouTube videos that show “how to” by each brand.

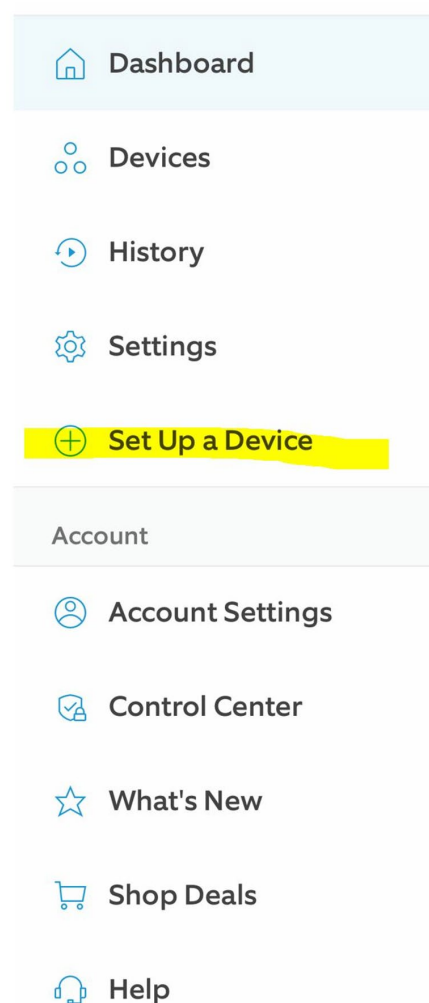
SETTING UP A CAMERA – RING Example

Download a Smartphone App from App Store.



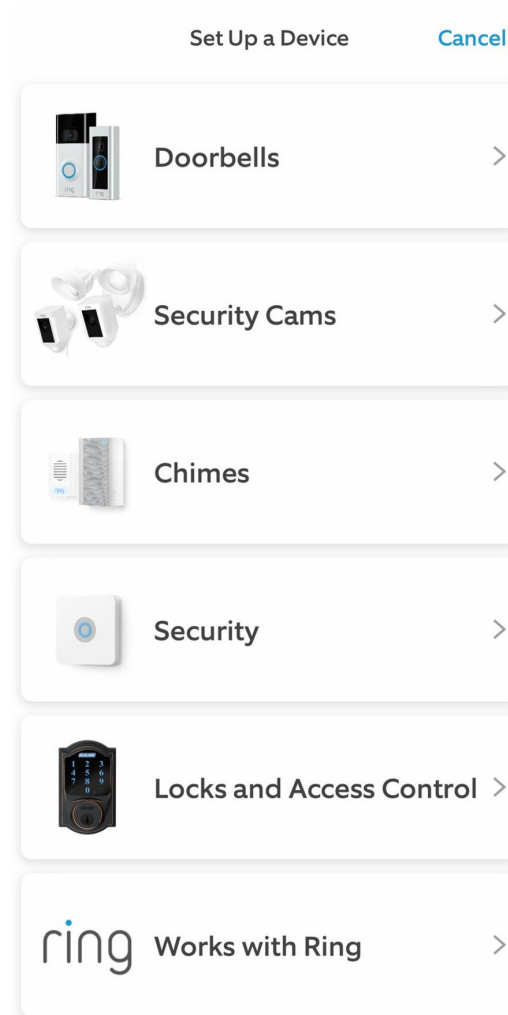
SETTING UP A CAMERA - RING

Press the menu bar located at the left-top of the screen. Then select "Set Up A Device"



SETTING UP A CAMERA - RING

Select the device which you are setting up. For example, "Doorbells".

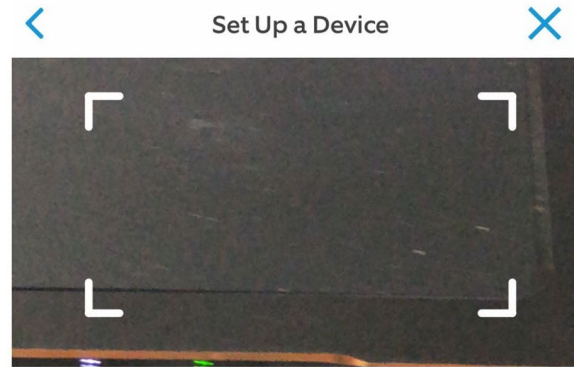


SETTING UP A CAMERA - RING

Scan in a QR code which is on the product box. Or you can select “Set Up Without Scanning” and follow the instruction.



QR code comes with the camera



Scan the code on your Ring product.

Look for a square or rectangular barcode. You can also find the code on the product packaging.

[Set Up Without Scanning](#)

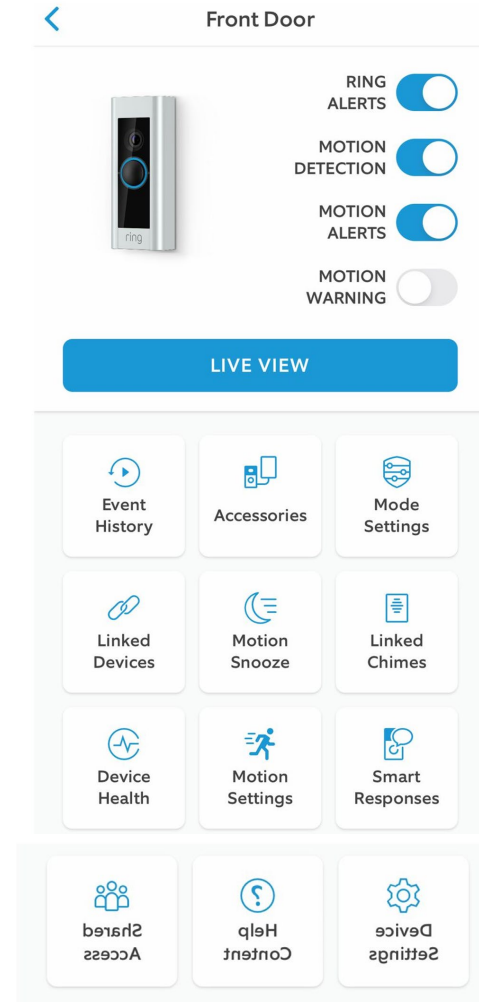
[HELP ME FIND CODE](#)

SETTING UP A CAMERA - RING

After the device is set up, you can further refine and control the device from the app.

Some of the frequently used features are:

- Event History – You can watch the video recordings
- Linked Devices – You can link this camera with other camera (if you have multiple devices). This will make the linked device ready to record every time this device's recording is activated.
- Device Health – Indicator of the voltage, wi-fi signal strength, etc.
- Motion Setting – Set motion sensitivity, area of motion detection, what (people or other) you want to detect, etc.



Ring



floodlight
Cam Wired



Lights Off

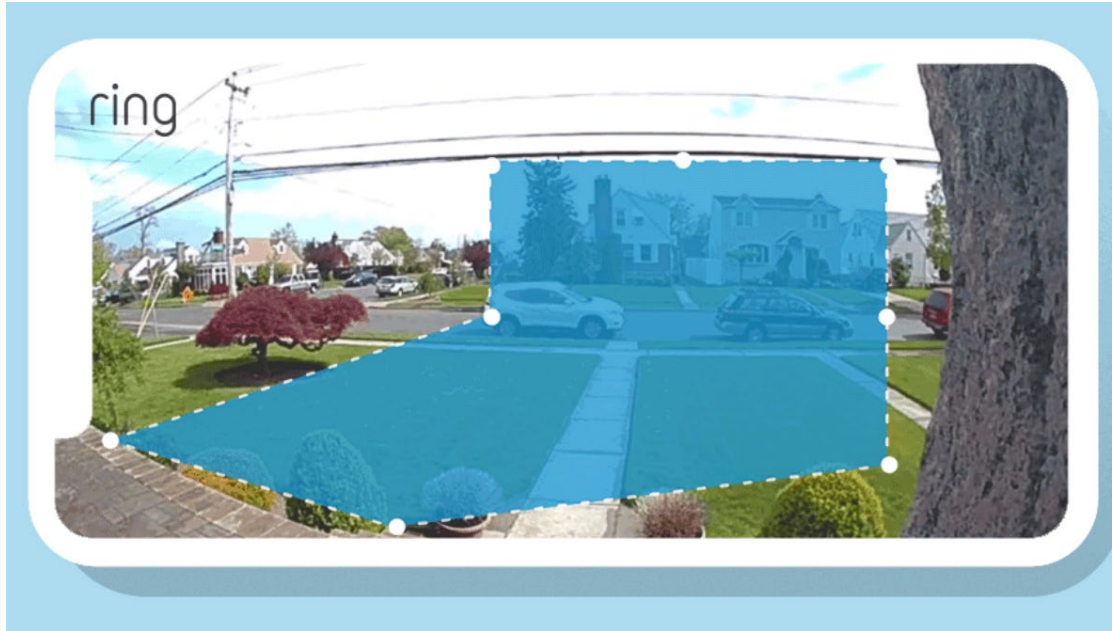


Lights On

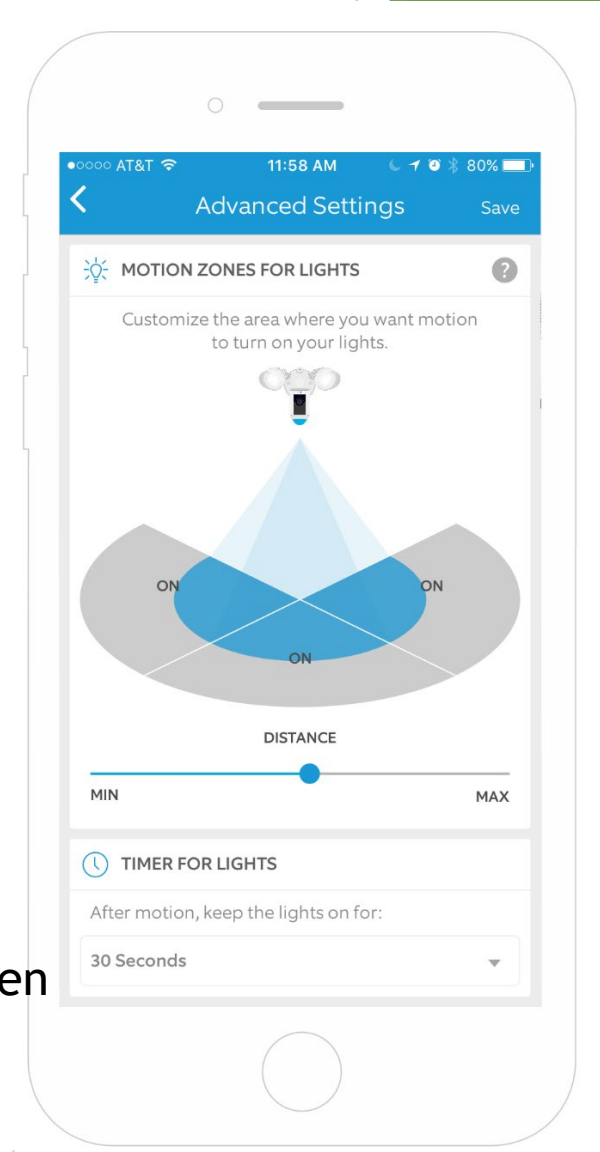
Ring



floodlight
Cam Wired



Video motion sensor setting screen



Floodlight motion sensor setting Screen

FINAL THOUGHTS

- Wi-fi camera requires a good wi-fi connection. Pay attention to the wi-fi strength before installing the camera. If the connection is poor in certain part of the house, consider installing wi-fi extender device.
- There are much more details available on each brand's webpage. Please check each of the unit and decide what's best for you.
- First time installation can be frustrated. It would help to network with other neighbors who have installed or installing the same products. It would be great to have the user forum in the Lunada Bay West.

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Thank you!

