User Manual

DIY-WF-SMART

Table of Contents

Important SD Card Information

Micro SD cards MUST be inserted properly or damage may occur. SD Cards in these devices are spring loaded. To insert the SD card, push the card into the slot until a click is heard or felt. Once the card clicks it will lock into place. To remove the card, press the card inward to unlock the spring and the card will come out.

NEVER FORCE AN SD CARD IN OR OUT!

Micro SD cards are available in different speed *classes*. For video recording, the micro SD card **MUST be Class 10 or UHS-1 or higher**. The Class can be determined by locating a small symbol on the label side of the card.

Example:

| **Class 6** | **Class 10** | **UHS-1** | **UHS-3** |

The micro SD card **MUST be FAT32 format**. For cards larger than 32GB, refer to the information on high capacity cards below.

ALWAYS stop recording and power off the device before inserting or removing a Micro SD card. The SD card may become corrupted if the device is not powered off.

High Capacity Cards
64GB or larger cards must be formatted FAT32 using "GUI Format".
To download refer to:
ridgecrop.co.uk/index.htm?guiformat.htm
To format an SD Card to FAT32 to use with a PalmVid camera, please follow these instructions:

1. Navigate to this link (Click on it)
2. Click on the picture of the software (On the website, see **Figure 1**)
3. Save the software, it should be located in the Downloads folder.
4. If a popup appears asking to allow this program to make changes to the computer, select **YES.**
5. Select the drive of the Micro SD Card
6. Press Start!

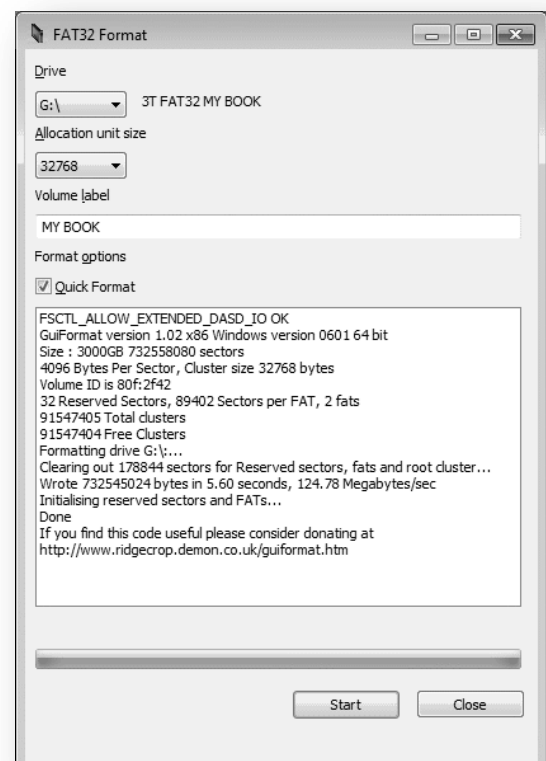**If an error message about the drive being in use is displayed, close all windows except for FAT32 Format and try again.**

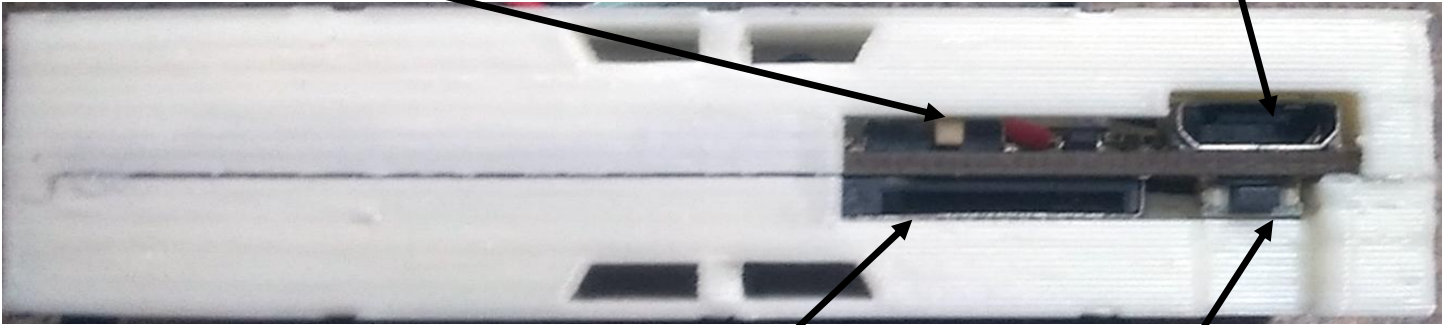**Figure 1**

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About This Device

On/Off Switch

This small white switch turns the camera on or off, the Right position is On (as pictured)

Micro USB Port

Use the included USB cable and charger to provide constant power to the camera with this USB port

SD CARD SLOT

Gently insert a Micro SD card into this slot. The card should insert easily, and will click and lock into place

RESET BUTTON

Use a small tool such as a paperclip or toothpick to depress the reset button. Press and hold the button for 10 seconds to reset

Important Information

These cameras output a WiFi unique to each device. When the device is powered on for the first time, a WiFi network is generated by the camera that looks like a series of number and letters. The network looks similar to **SmartLife-0000.**

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Setup Concept Overview

PLEASE READ THIS PAGE FIRST BEFORE ATTEMPTING SETUP

The main goal of the initial setup is to "program" this camera with the name and password of the main WiFi network/router where the camera will be deployed.

After the initial setup is completed the camera will attempt to use that information to connect itself to the main WiFi network/router. If successful then the camera can be viewed over the internet from anywhere in the world.

After the camera is programmed and working if the camera is moved to a different location (that uses a different WiFi network/router) or if the main router's name/password information is changed, then the camera will need to be reset and the setup will need to be repeated.

- The setup begins assuming that you have an iPhone, iPad, or an Android phone or tablet connected to the main home or office WiFi network/router where the camera will be deployed, and that you have the correct password for that WiFi network/router.

- Install a free App onto an iPhone or Android smartphone or tablet (from the app store)

- Temporarily connect the smartphone or tablet "directly" to the camera's own WiFi network, then use the app to program the name and password for the <u>main</u> WiFi network/router into the camera.
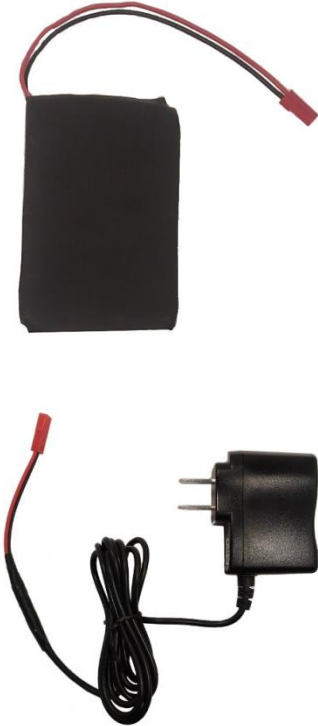
  IMPORTANT: After this first part of the setup is completed the camera will NOT output its own WiFi network again (unless it is reset). You will NOT need to try to connect directly to the camera's temporary WiFi network again (unless you need to repeat the setup).

- After programming the name and password for the main WiFi network/router the camera will reboot and will attempt to use that programmed name and password to join the main WiFi network/router

- Once those steps are completed then the camera is "Online" and you will be able to use the app to view the camera "over the internet" on your iPhone or Android devices

The full initial setup instructions begin on the following page

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Powering the Device

Before starting the setup procedure, power the device.

Constant AC Power with Battery Backup	Battery Power
Connect USB charger and cable to the device (see illustration on page 4 to find the correct port) and plug the USB charger into a wall outlet.	To connect the battery to the camera, plug the red connector of the battery into the red connector on the camera.

After plugging in the battery and/or USB power cord to the camera, the camera will show a faint red and/or blue light from a hole near the Micro SD card slot. If this light does not appear, check all power connections, and check to make sure the battery is charged.

Charging the Battery

1. Disconnect the battery from the battery connector
2. Plug the battery into the fast charger (below)
3. Connect the Wall Charger to a power outlet
4. While charging, the charger will show a red light. When the battery is done charging, the red light will turn green; this indicates that the battery is fully charged. Normally this takes 4-6 hours.

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Adding the Camera to the App

Installing the App on a Phone or Tablet

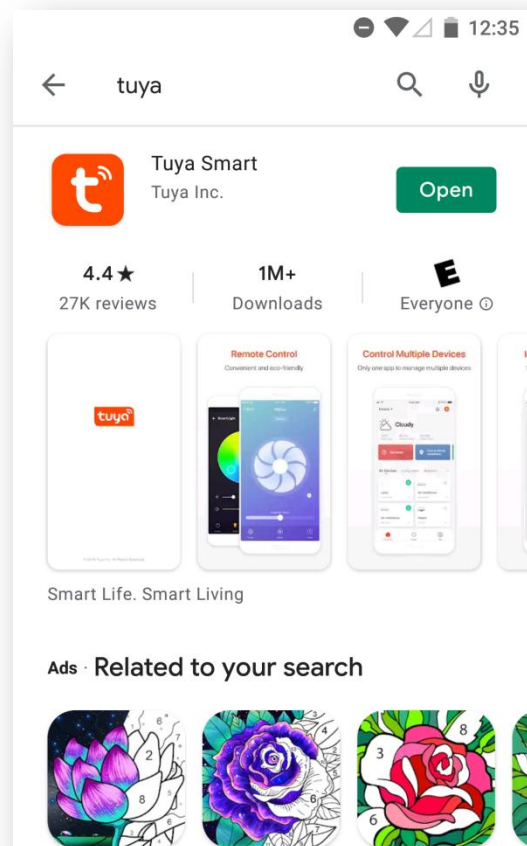## Installing the App on an iPhone or iPad

1. Open the iTunes app store
   Search for: Tuya Smart
2. Select the Tuya Smart
3. Install the app to the phone
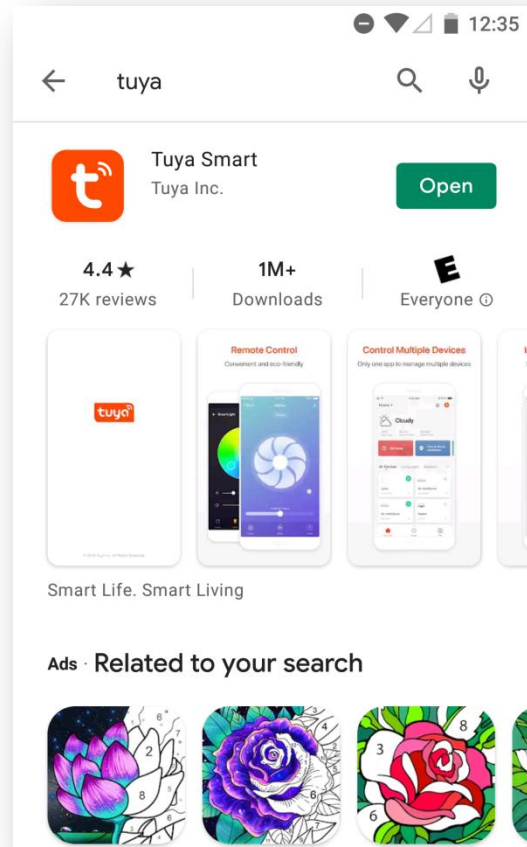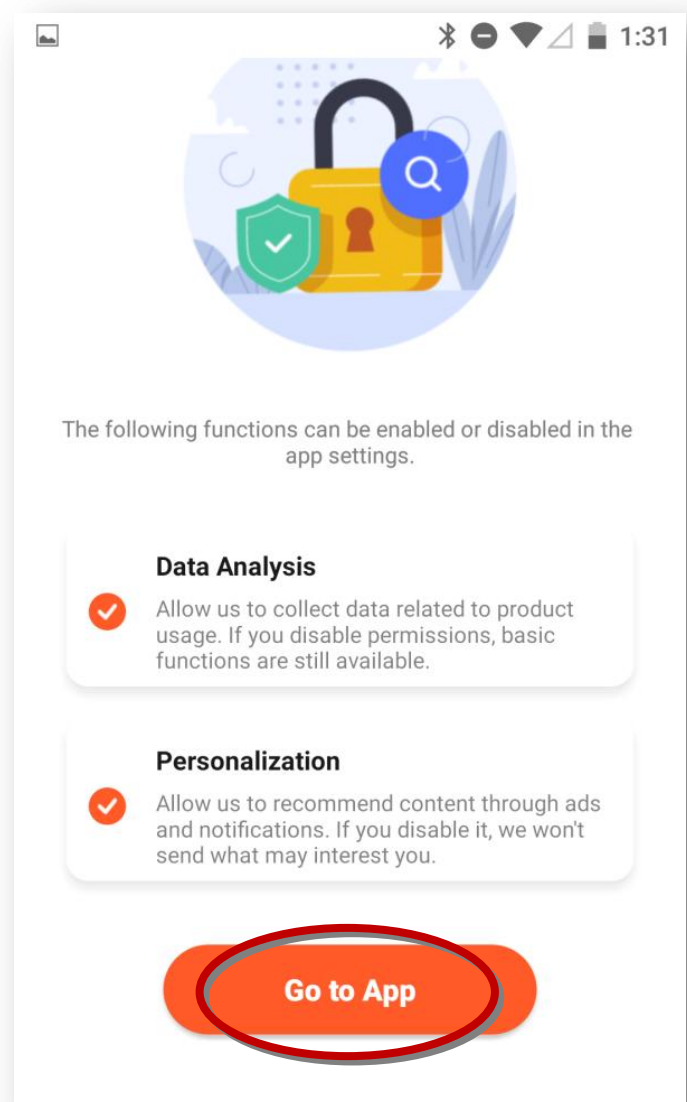
Installing the App on an Android device

1. Open the Google Play Store
2. Search for: Tuya Smart
3. Select the Tuya Smart
4. Install the app to the phone

1. This app requires you to create an account. Tap "Sign Up"
2. Type in your email, or an email that you have access to and tap "Get Verification Code" Check your email for a message from "TuyaSmart" and get the code.
3. Go back to the app and type in the verification code
4. The next screen will allow you to set a password for your account once entered click "Done"
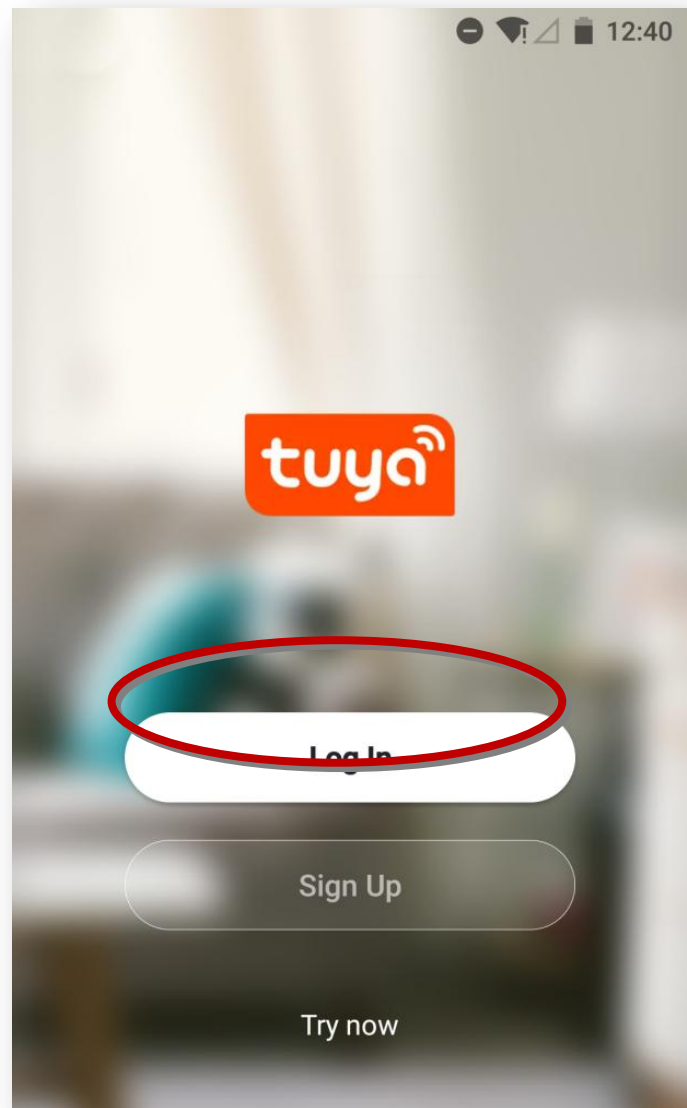
5. This app will ask for your permission to collect data from your usage you can uncheck the boxes or keep them checked. When done tap "Go to App"

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6. This is the home screen of the app tap the "**+**" button in the top right corner of the app or tap on "Add Device"
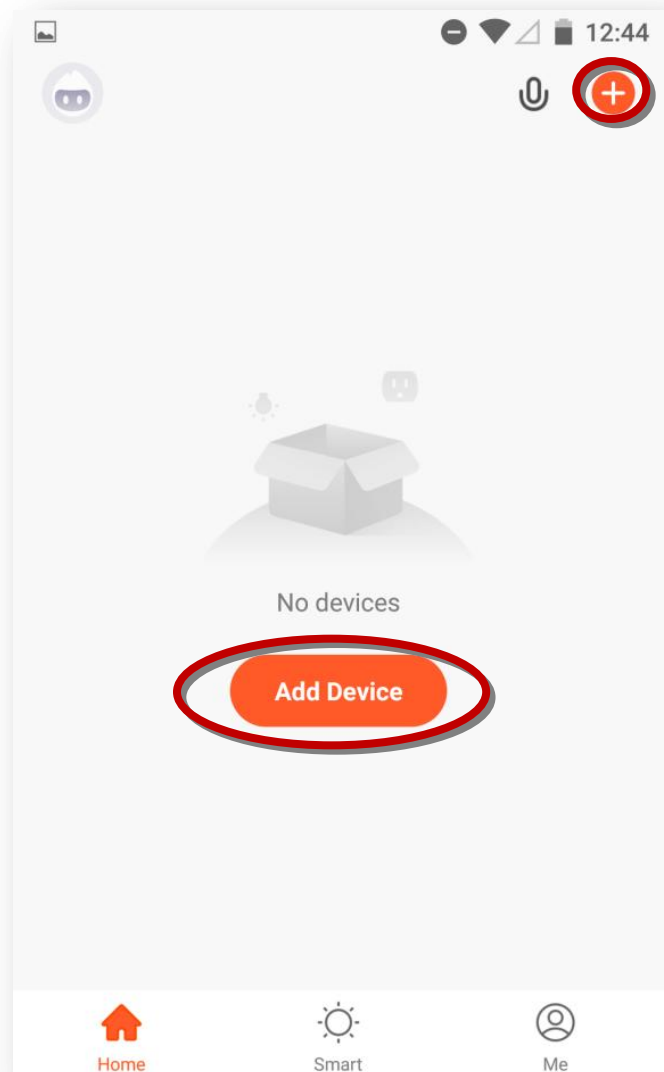
7. Under the "Add Manually" section tap on the "Security & Video Surveillance" tab and find the option named "Smart Camera (Wi-Fi)"
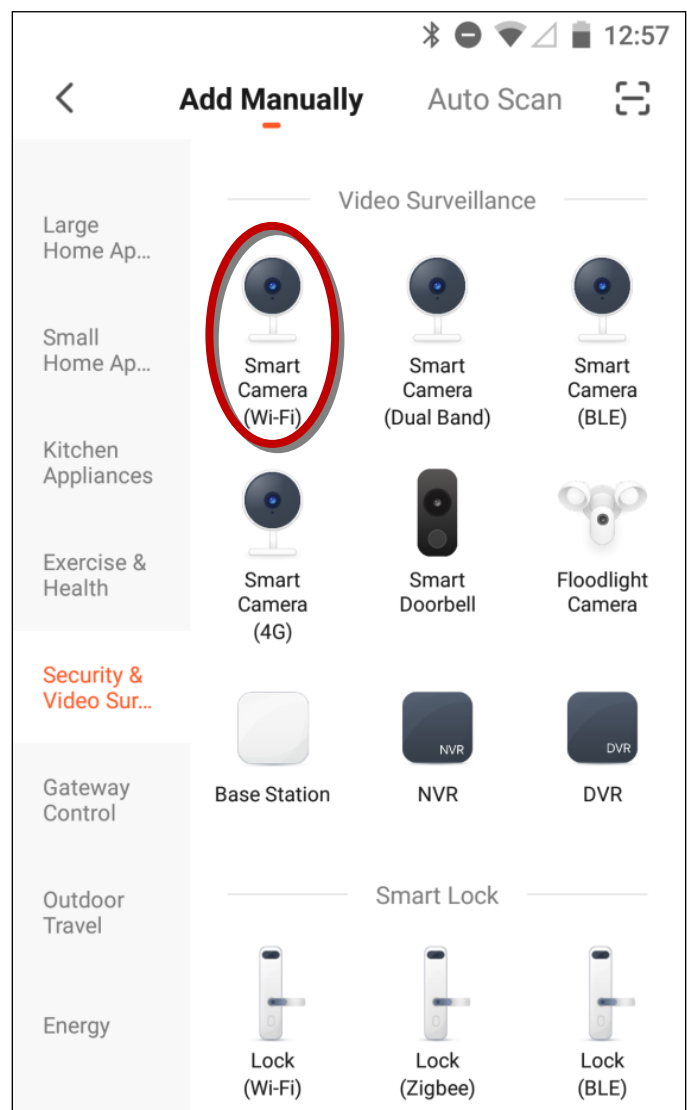
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8. At the top of this screen, tap "QR Code" and select "AP Mode".

When this camera is in its setup mode, the status LED on the bottom will flash blue once per second. If you do not see this flash, press and hold the reset button on your Camera for 10 seconds.

Once the blue light flashes slowly, check the box next to "Make sure the indicator is flashing quickly or a prompt tone is heard", and tap "Next"

Cancel   QR Code ⇋

Reset the device first.

Power on the device and make sure the indicator is flashing rapidly or a prompt tone is heard.

Make sure the indicator is flashing quickly or a prompt tone is heard

Next
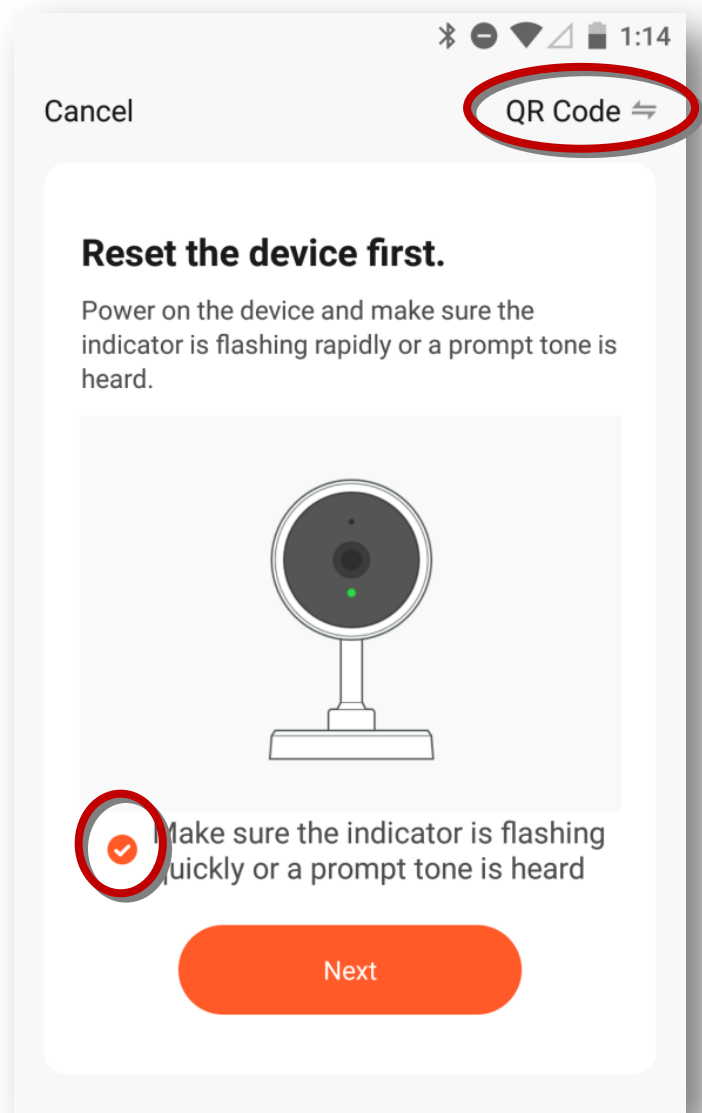
9. This screen lets you set up the camera to your Wi-Fi.

   If your phone is connected to your personal Wi-Fi the app will auto populate the name of the network. You will need to enter your WiFi password.

   Not sure of your WiFi password? Refer to page 23 before proceeding. **Do not proceed unless you are sure of your WiFi password.**
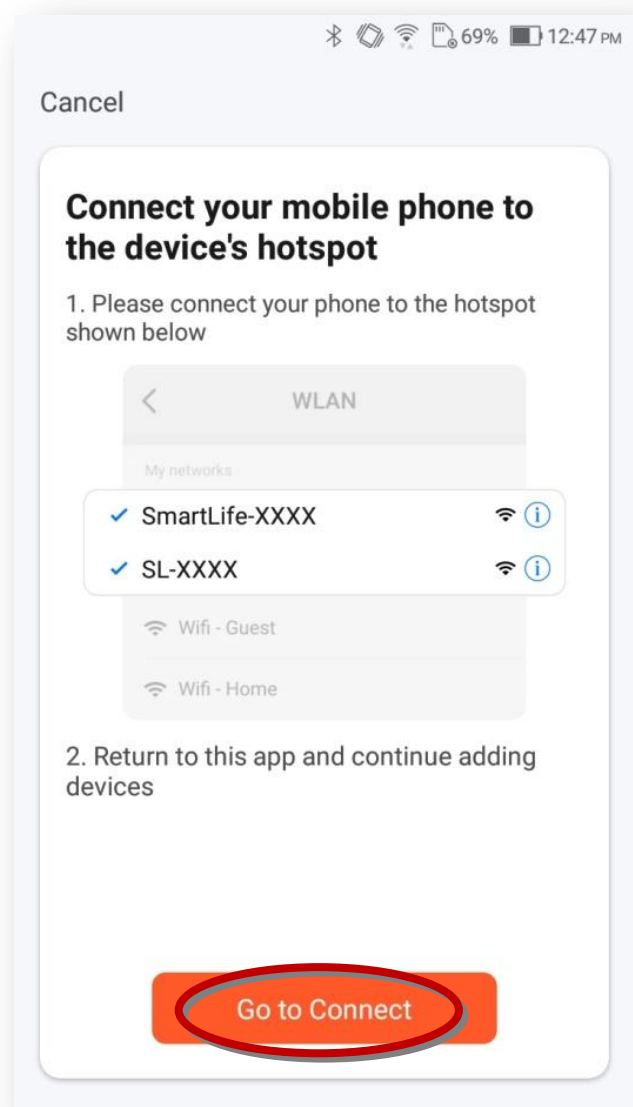
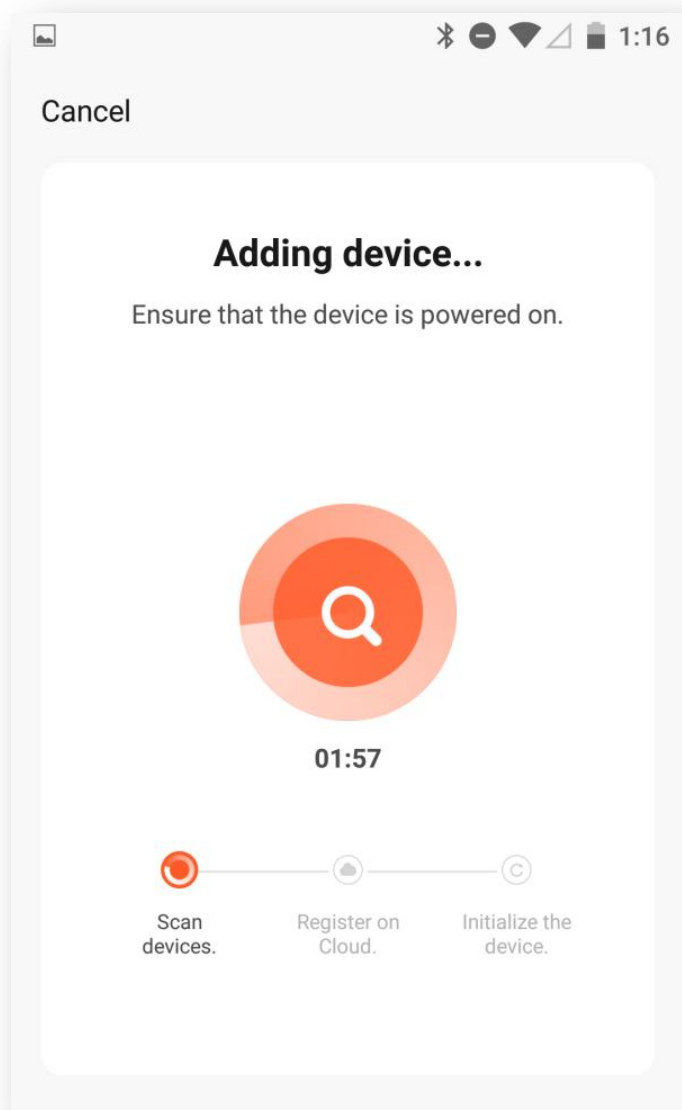   Once the correct WiFi password has been entered, tap Next.
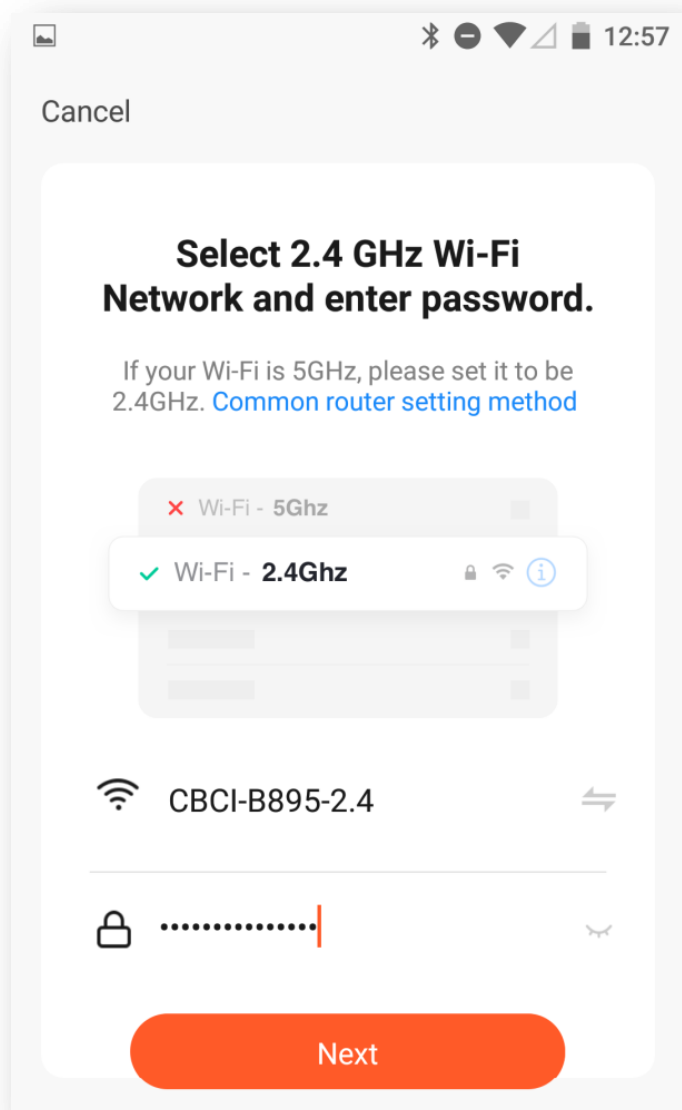
10. This screen is prompting you to connect to a new WiFi network that comes from the camera. Navigate to the WiFi settings on your phone, and you should see a WiFi network that begins with "SmartLife". Tap on this network to connect to it.

    You may see a message about this SmartLife WiFi network not being connected to the internet. This message is normal. Do not disconnect from this network or switch to mobile data.
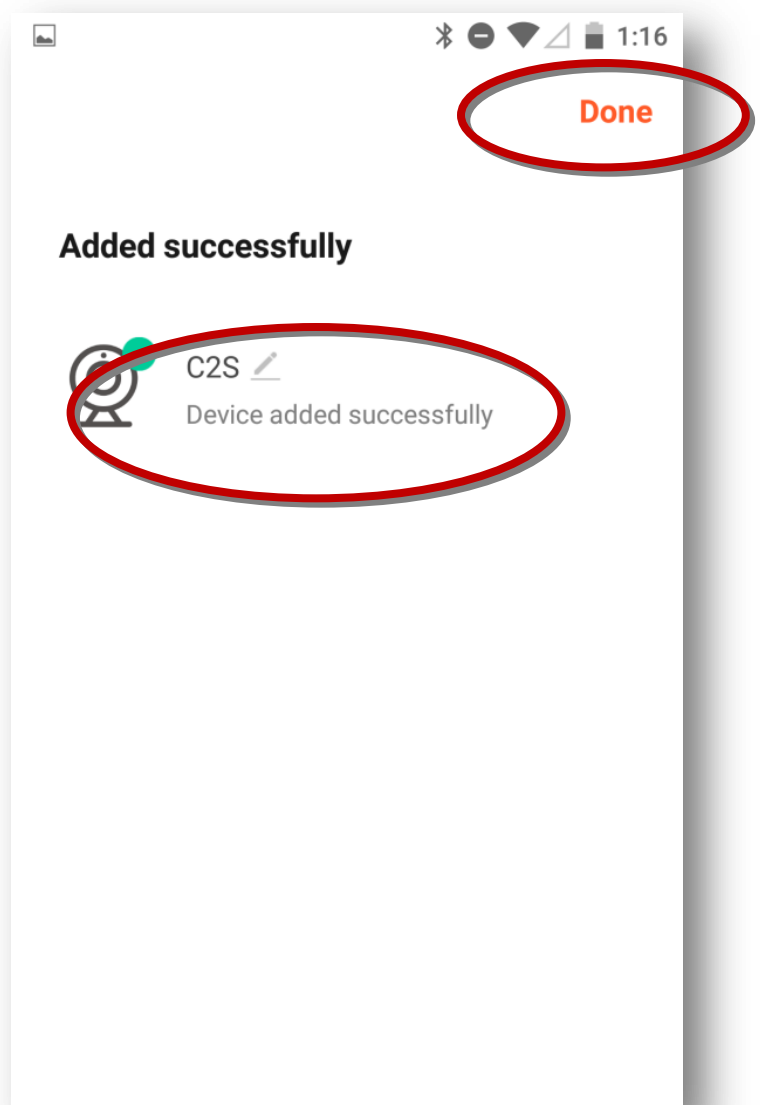
    Once you're connected, return to the Tuya app, and tap "Go to Connect"

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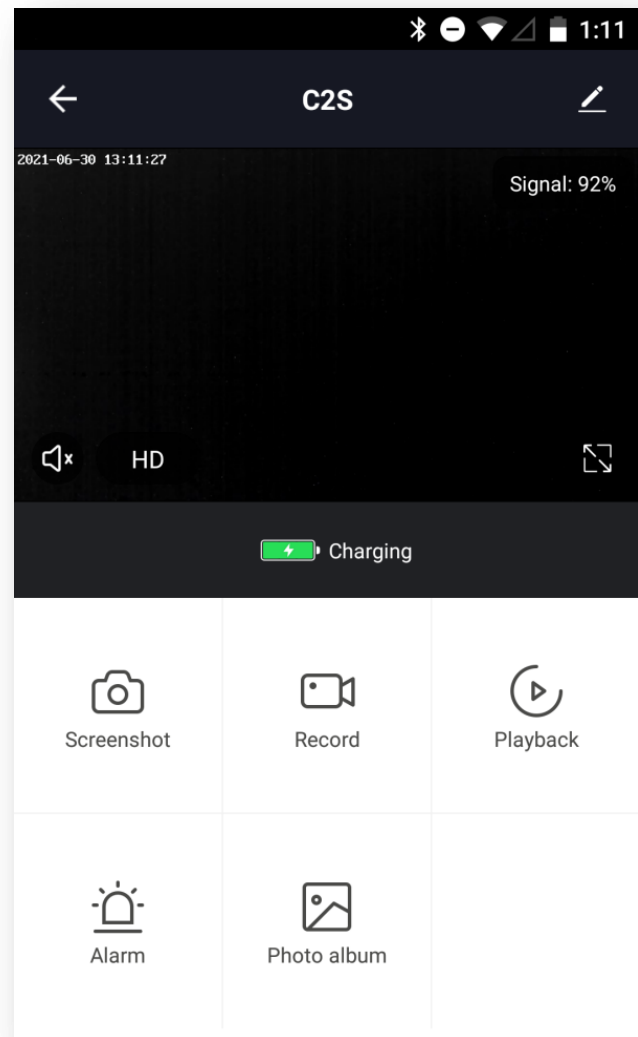Call 800-618-7491 or email webstaff@palmvid.com

11. This screen is the apps final step to connecting to the camera. Please allow up to 2 minutes for the camera to connect. Do not navigate away from this screen during the connection.

Cancel

Adding device...

Ensure that the device is powered on.

01:57

Scan devices.   Register on Cloud.   Initialize the device.

12. This next Screen will allow you to change the cameras name if needed.
13. Once finished tap "Done"

Done

Added successfully

C2S
Device added successfully

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14. After the setup is complete you will be taken to the live view screen of the app.

15. The camera's Live View screen is displayed to the right. The functions that can be done on this screen are:

a) Takes you to Settings
b) Unused
c) Lets you change the resolution of the cameras live view
d) Changes the live view to full screen
e) Takes a snapshot of
f) Records a video clip
g) Takes you to the recording playbacks from an SD CARD
h) Takes you to the camera motion detection settings
i) Takes you to the recording made on your phone or tablet

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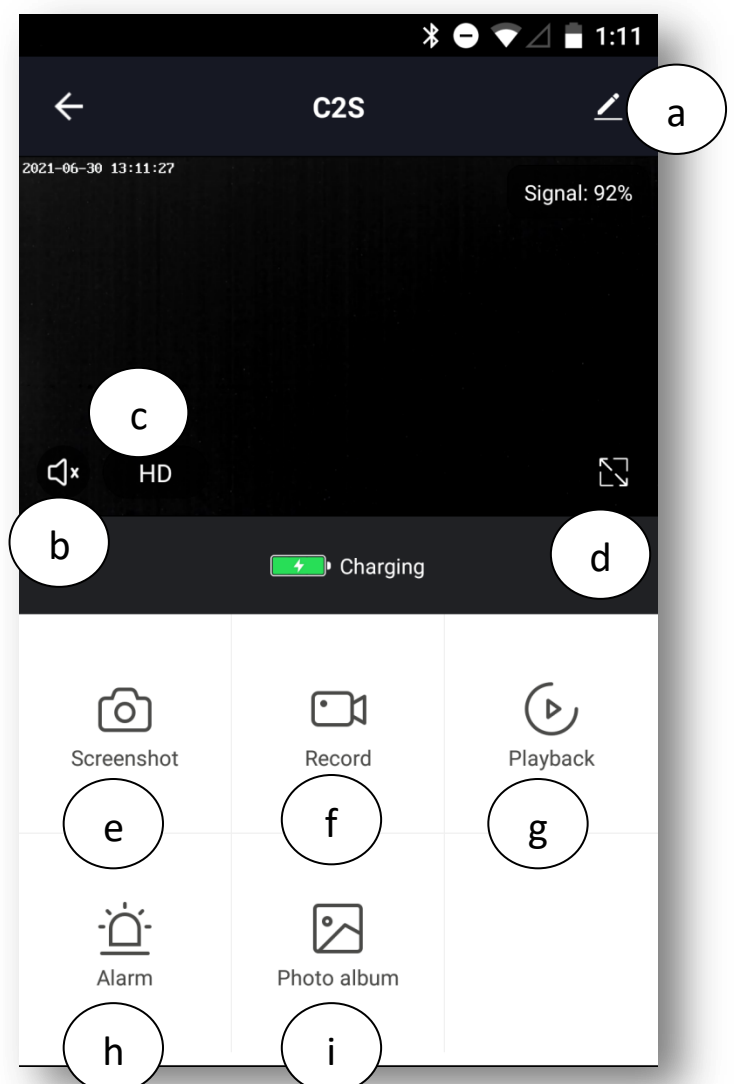
Configuring Camera Settings

To configure the camera's settings, tap the "Pencil" icon, either on the camera's live view.
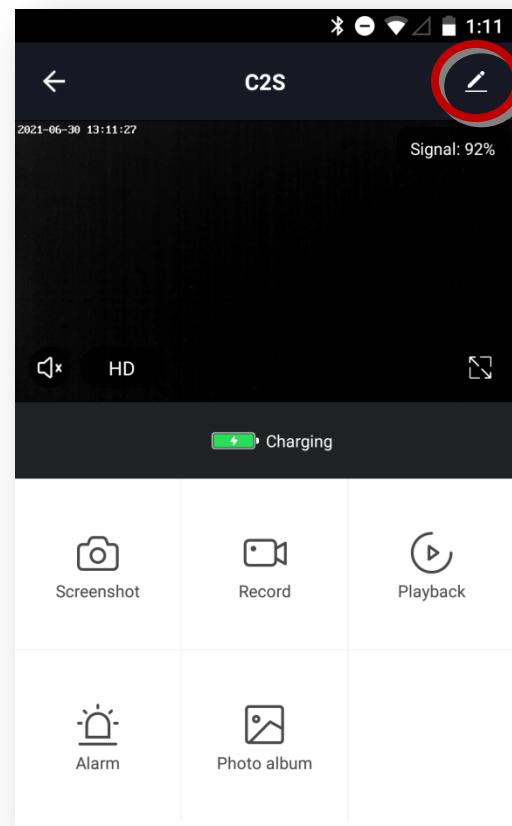
The settings page has several menus:
1) Cam Name– Icon, Name, and Location
2) Device Information – Camera information
3) Tap-to-Run and Automation – Unused
4) Basic Function Settings – Status Indicator, Flip Screen, and Time watermark
5) Display Settings – Brightness and Contrast
6) Detection Alarm Settings – motion detection settings
7) Storage Settings – recording to a Micro SD card
8) Offline Notification – Allows notifications when app is closed
9) FAQ & Feedback – Help
10)   Share Device – Shows IP and Languages
11) Add to Home Screen-
12) Device Update-
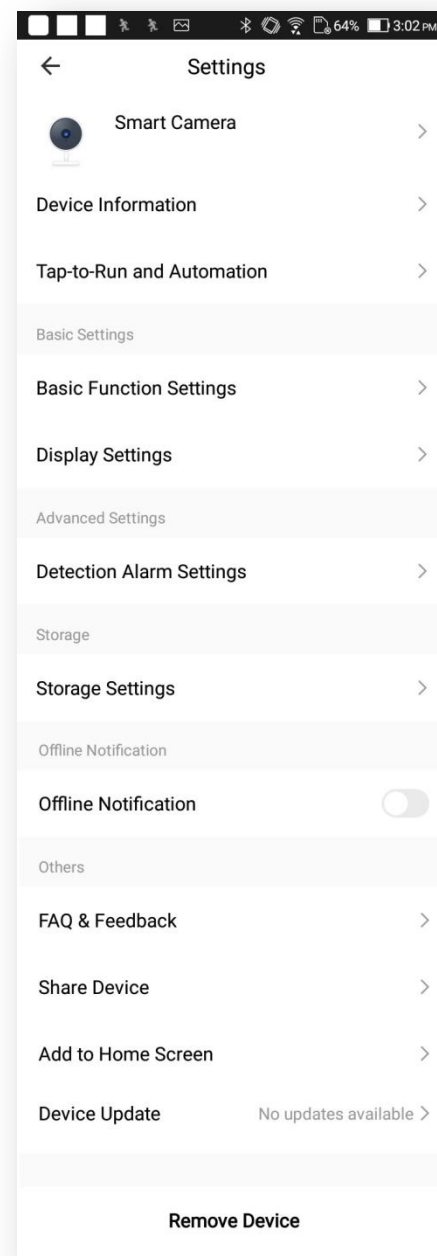
Cam Name

This screen allows you to view and modify your cameras nickname. It also allows you to view your cameras Device ID.

Icon	>
Name	Demo >
Location	>
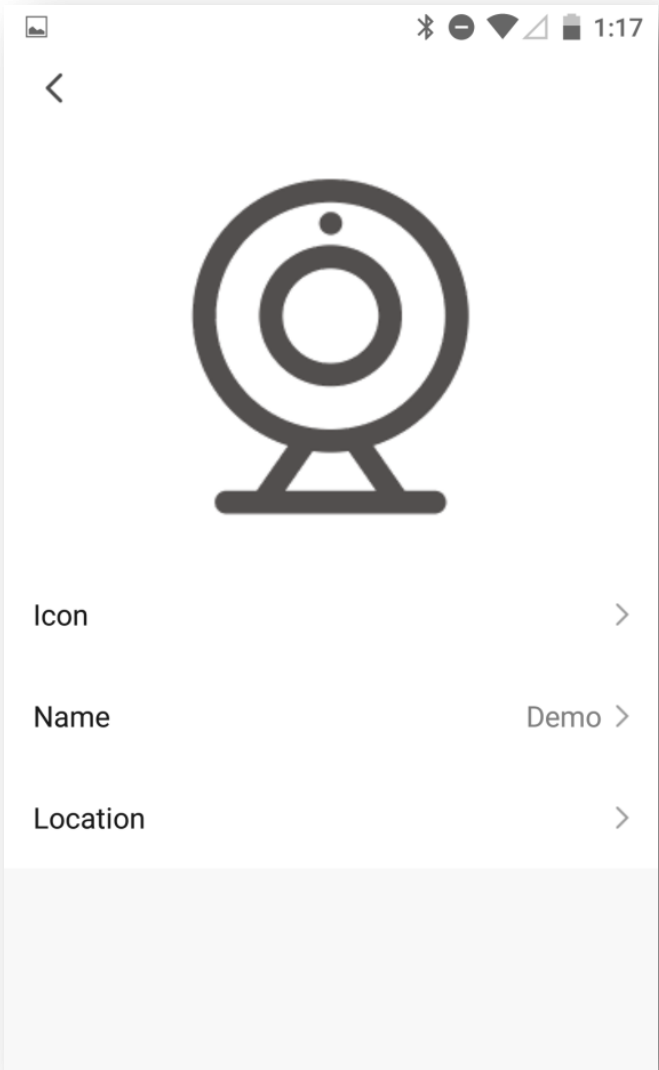
Device Information

This Screen lets you view the details of your device including its ID and time zone

Device Information

Owner	TWPV21@PROTONMAIL.COM
IP	73.95.124.236
Device ID	eb14a1db7b09b0ba25tfb4
Time Zone	America/Denver
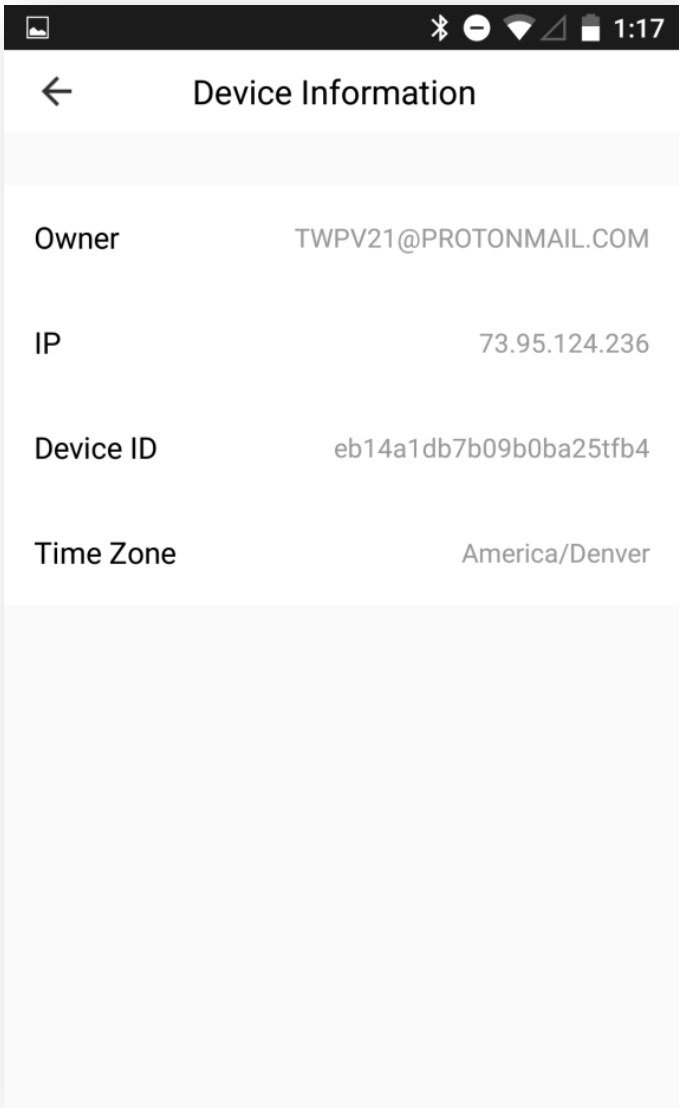
Tap-to-Run and Automation

1) This app integrates with home automation systems like Alexa, Google Home, IFTTT, and more. For more information about how to integrate Tuya Smart devices, please contact your home automation manufacturer, or refer to the FAQs section.
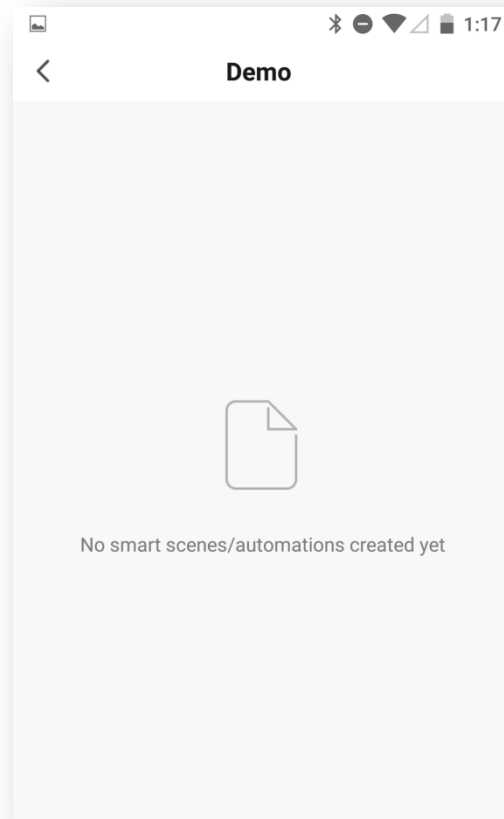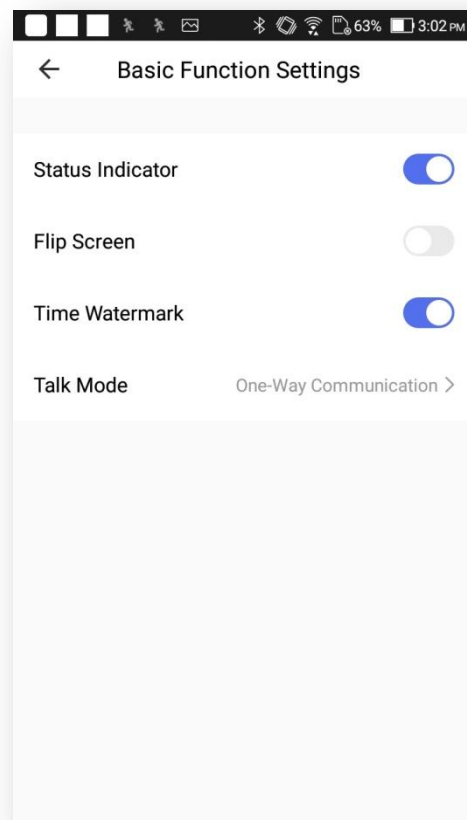
# Basic Function Settings

This Screen lets you change your time and date stamps and controls whether or not you have date stamps on your recordings. It also controls the LED indicators on the device.

1) **Status Indicator – turns the blue LED on or off**
2) **Flip Screen – flips the image left-to-right**
3) **Time Watermark – enables the time/date stamp on the video**
4) **Talk Mode - unused**

Display Settings

1) This can be used to fine-tune the video's Brightness and Contrast.
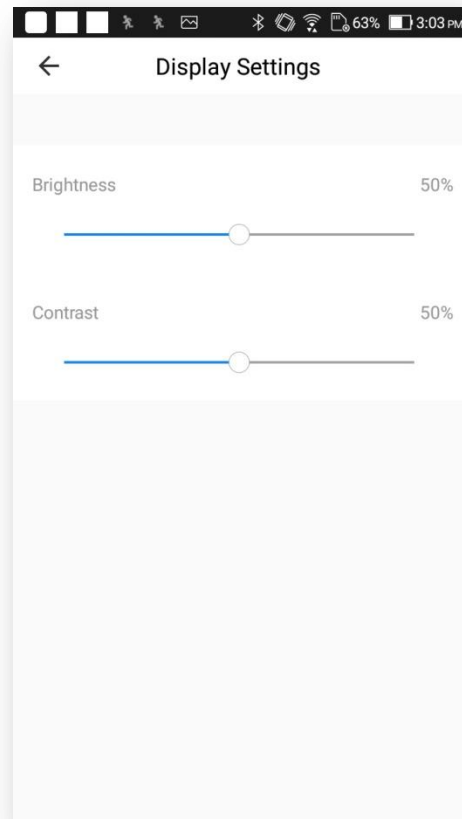
Detection Alarm Settings

1) This screen allows you to modify your motion detection settings.
2) Turn Motion Detection Alarm on to receive in-app notifications when the camera senses motion.
3) Change the Alarm Sensitivity Level to change how sensitive the camera is to motion. This effects when motion detection alerts are sent, and when the camera records.
4) Tap on Schedule to set a schedule for when motion detection should be enabled or disabled. If the schedule is not set, the camera will sense motion 24/7.
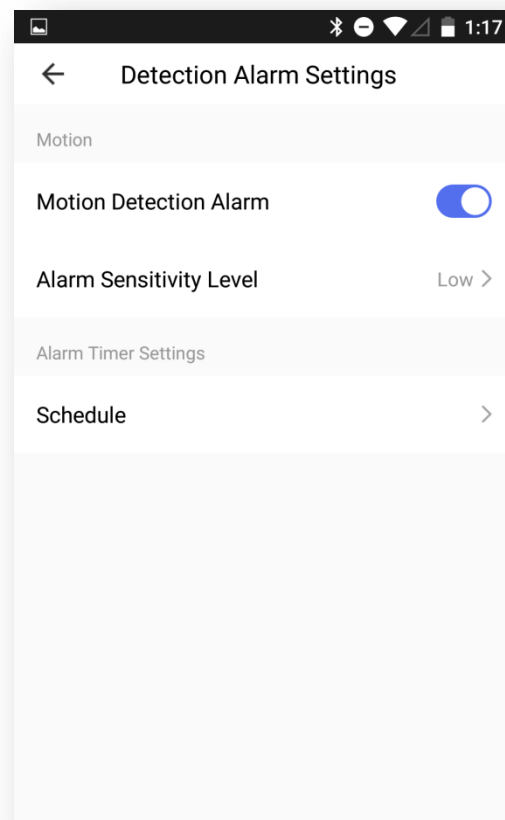
Storage Settings

1) This screen will only appear if a properly formatted Micro SD card is installed into the camera. This screen will show the card's total, used, and remaining capacity.
2) To record to the Micro SD card, enable Local Recording. Non-Stop recording means recording 24/7, change this to Event Recording to record only when motion is detected.
3) Choose Remove memory device if and when you choose to remove the Micro SD card.
4) Choose Format to erase all data saved on the card.

Share Device

1) This screen allows you to share your camera if needed to another Tuya Smart user.

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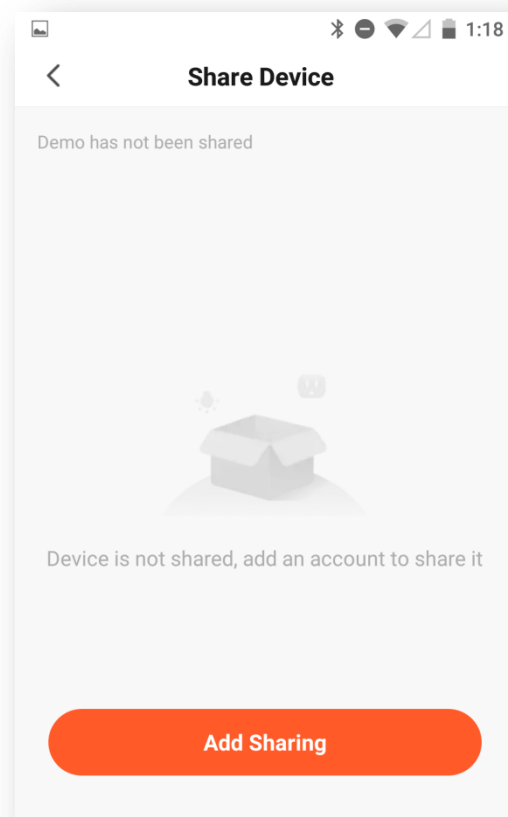
Add to Home Screen

1) This Screen allows you to change your language
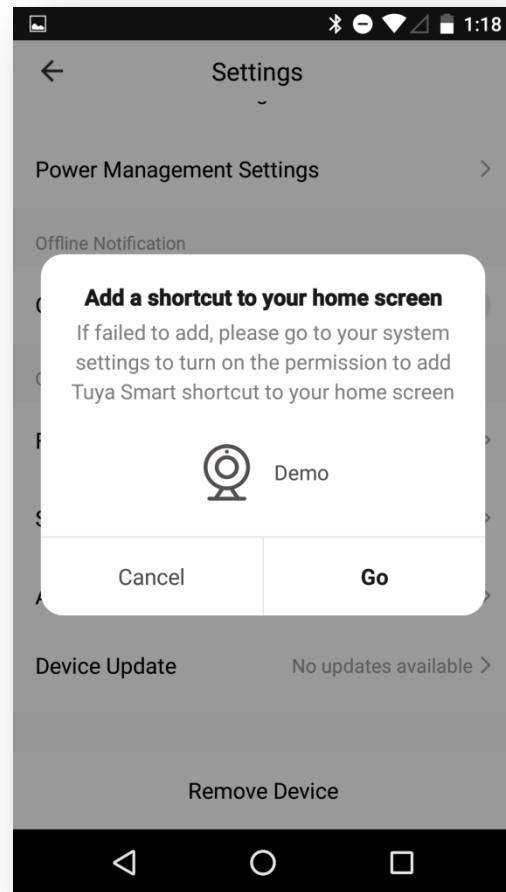
Video Playback

This app can play back recorded videos from this camera. These videos may be stored on a Micro SD card inside the camera,(Playback) or they may be stored in the memory of the phone or tablet (Photo Album). To begin, make sure the camera appears as "Online" on the main Cameras screen of the app. Tap on the "Playback" button to see these recordings on the SD Card.
Tap on "Photo Album" to view these recordings on the phone or tablet.
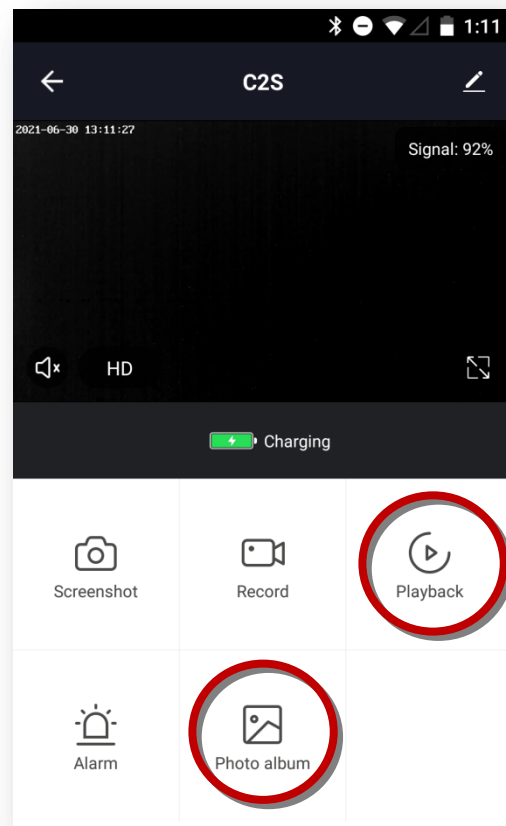
a) The first thing that plays when you tap "Playback" is the most recent video the camera recorded to its SD card.
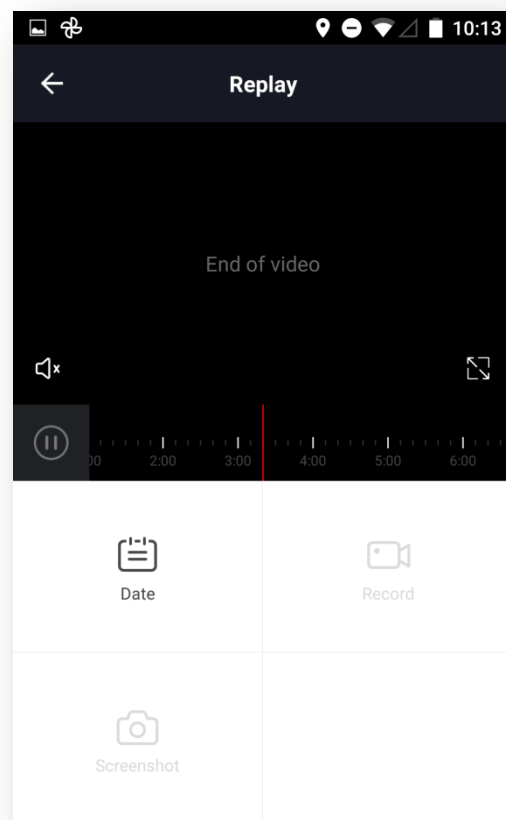
Video Playback (continued)

This apps playback function has a few different options.

  a) Lets you pause/play your videos
  b) Lets you scrub through videos or time of day recorded
  c) Makes the Playback full screen
  d) Shows you a calendar where you can choose the date you need playback from
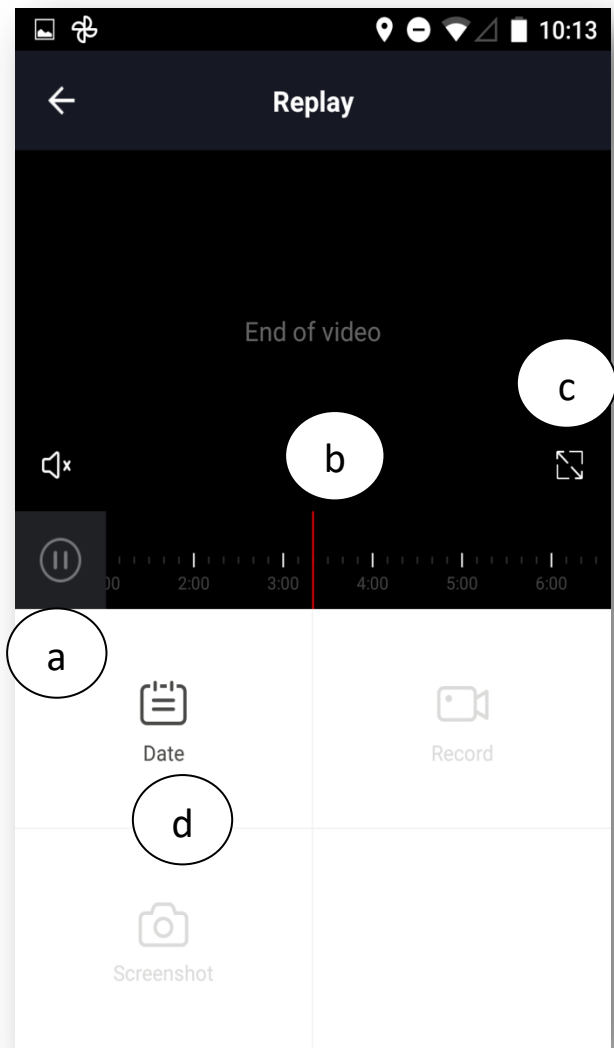
This is the date menu where you can swipe through different months and dates seeing all of the playbacks the SD has recorded.
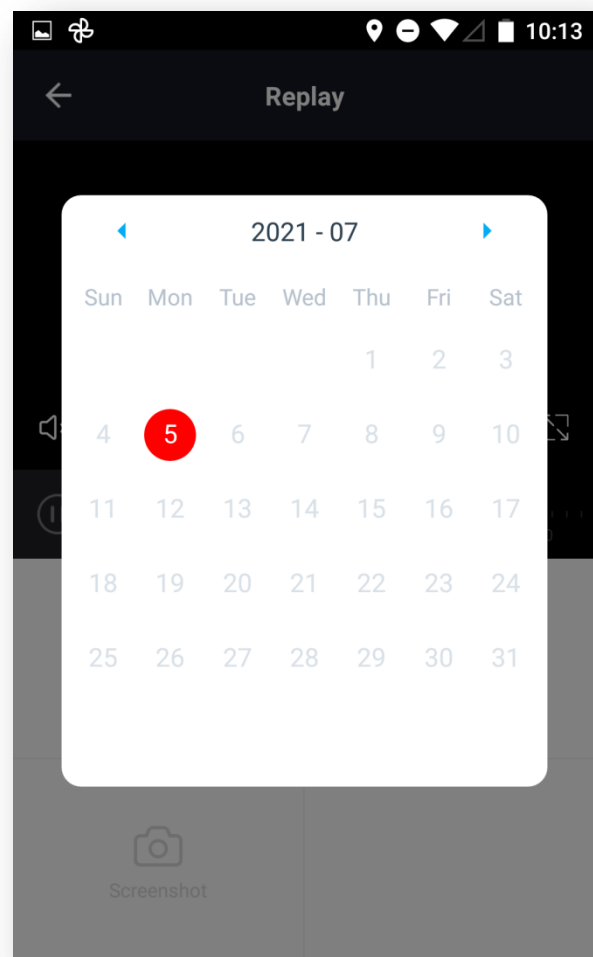
Video Playback (continued)

This is the screen that comes up when you tap on the "Photo Album" button. It lays out all of the videos and photos that you have saved to the phone or tablet.
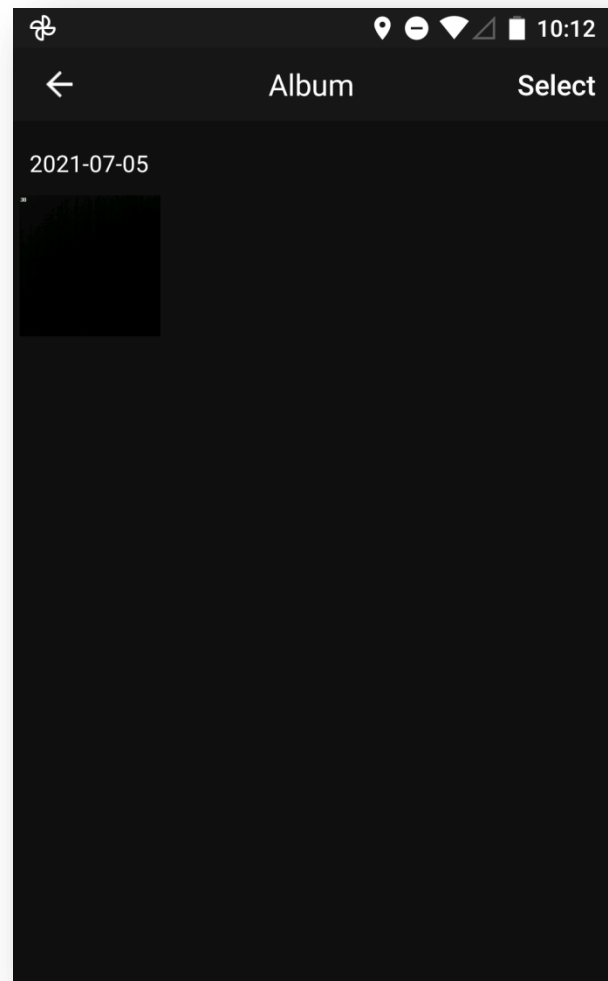
This is the video player screen

a) Goes back to the "photo album" main screen
b) Plays the video
c) Scrubs through the video you have queued
d) Deletes the video you are currently watching
e) Shares video
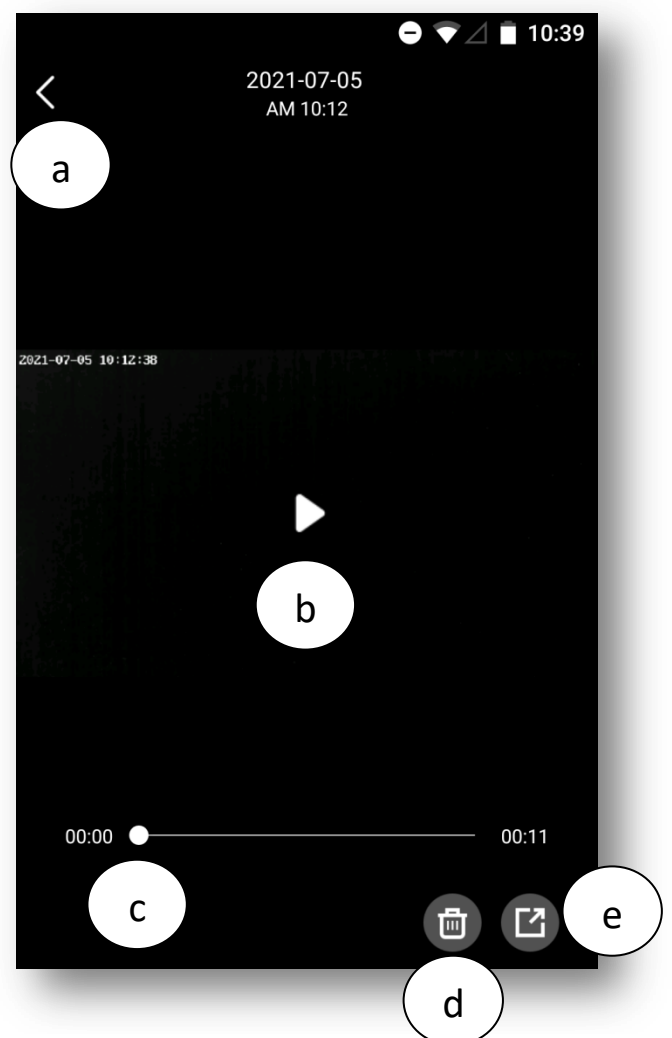
Adding an Online Camera to another Phone or Tablet

1. Install and open the appropriate app on the second phone or tablet
2. From the main screen, tap the Pencil icon to get to the settings
3. Scroll down to find "Share Device"
4. Then tap "Add Sharing"
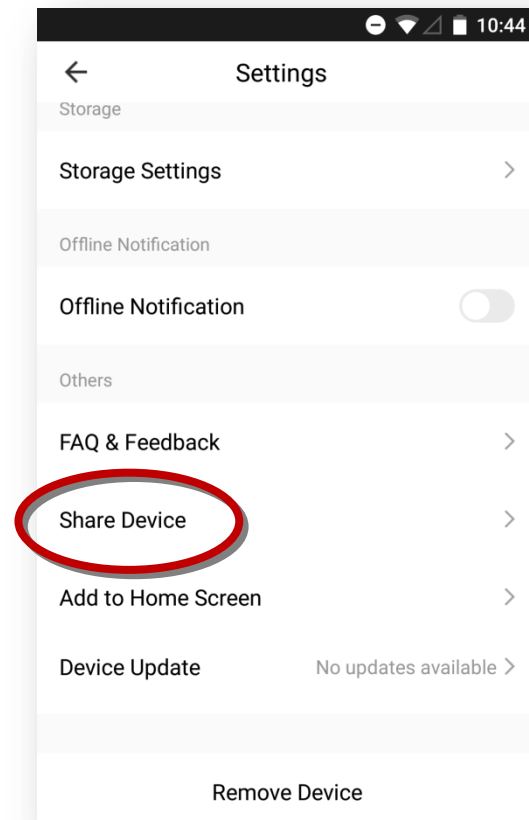
5. This settings screen is where all of the device sharing options are

   a) Lets you share the camera via your messaging app
   b) Copies sharing link so you can paste it anywhere you want
   c) Opens up a menu to all apps that are available to share the link on
   d) Allows you to control the number of people who have access to the camera

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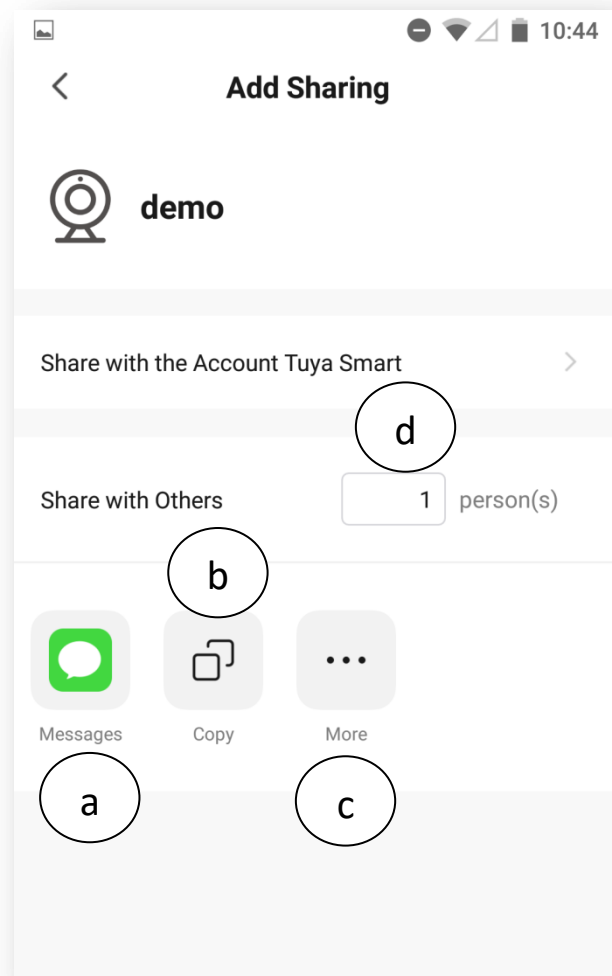
Troubleshooting

I'm not sure of my WiFi Password

There are several ways to retrieve or verify your WiFi password. The first and easiest is to look for a sticker on your modem or router that displays your WiFi name and password.

If you do not see that sticker, you may choose to call your internet service provider for help.

To verify that you have the correct WiFi password, navigate to your WiFi settings on the phone or tablet you are using with the camera. If you are already connected to your WiFi network, tap on the network or on a settings button to the right, and look for an option that says "Forget". This will erase the saved WiFi password from your phone or tablet. Once the network is forgotten, tap on the network again to re-join, and enter what you think the WiFi password is. You'll be able to try multiple times until you get it correct, do this before entering it into the app for the camera.

What is a 2.4GHz and 5GHz WiFi network?

Most modern WiFi routers will output two kinds of WiFi networks, a standard 2.4GHz and a new 5GHz network. Please note that this is different from a "5G" cell phone service, the 2.4GHz and 5Ghz specifically describe WiFi abilities, not cell phone abilities.

If you normally have two networks, they should be named to indicate which is the 2.4GHz and which is the 5GHz. So, you may have two networks like MYWIFI-2.4 and MYWIFI-5G. When setting up the camera, only use the 2.4.

If you normally have just one network, then it is likely that you have a 2.4 and 5Ghz network that share the same name. If this is the case, proceed normally.

No Audio from Camera

Our hidden cameras do not include microphones when sold to the general public in the US; disguised microphones are not legal in the US, so our hidden cameras record video but no audio.

We like to remind our customers that a picture is worth 1000 words which means that the video recording will show all that is needed to determine evidence of abuse, infidelity, theft, trespassing, or other wrongdoing.

If audio recording is strongly desired then we would recommend that in addition to the hidden camera that a separate legal audio recording device be used such as a regular security camera with audio or a voice recorder.

The Camera Does Not Output a WiFi Network

This camera should only output a WiFi network during the initial setup. After connecting the camera to the internet, the camera's WiFi network should disappear. You will **not** need to connect to this camera's WiFi each time to view the camera. If the camera is not outputting a WiFi during the initial setup, we recommend resetting the camera by pressing-and-holding the small black reset button (refer to the diagram on page 3).

The app says that the camera is offline

If the app displays a message that the camera is offline, it is either because the camera is not online, or the phone/tablet is not online. Before troubleshooting the camera, check to make sure the phone/tablet is online by visiting a website. If the phone/tablet is unable to view any website, this usually means the device is not connected to the internet, and therefore unable to connect to this camera.

If the phone/tablet is connected to the internet, but still unable to connect to this camera, the camera may not be online. Check the camera to make sure it is powered on or plugged into a source of power, and check to make sure the internet connection is working at the camera location. For more help, please contact technical support at 800-618-7491 or e-mail us at Webstaff@palmvid.com

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The video quality while watching live video is not clear

The video captured by this camera is sent over the internet to the phone. The faster the internet connection is where the camera is located, and the faster the internet connection is on the phone, the better the video quality. If poor video quality is experienced, check to be sure these internet connections are working properly. The video quality can also be adjusted, see page 10, option g.

The recorded video should always be at the highest quality, check the recordings to make sure they are of the right quality when you play them.

The camera is not working correctly and I would like to reset it

If this camera has been set up and it has worked for any amount of time, there is almost no valid reason to reset it. In that case, we recommend contacting technical support.

If the camera has never been set up or online, it should be reset. Refer to the steps on the previous page under "**The Camera Does Not Output a WiFi Network**" to reset the camera.

The Smartphone or Tablet is Getting Too Many Notifications about Motion Detection

There are two ways to resolve this:

1) The camera's motion detection sensitivity can be changed using the camera settings, see page 14 for more details
2) You can disable the motion detection notifications, but still have the camera record video to a Micro SD card when motion is detected. To do this, follow the instructions on page 14 to access the Alarm Setting menu. Disable the option that reads "Allow Notification". The camera will continue to sense motion and record video to the Micro SD card, but will not send a notification to the phone or tablet.

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DIY-WF-SMART Checklist

INVOICE #:　　　　　　　　　　　**TESTING DATE:**

	TECH 1	TECH 2
Kit Assembled	_____	_____
Camera in Focus	_____	_____
Verified Live Video Over Wi-Fi	_____	_____
Record/Playback on SD	_____	_____
Live Video After Power Cycle	_____	_____
Re-tested from Second Device	_____	_____
Reset to Defaults	_____	_____

This DIY-WIFI-SMART has been tested and double tested
by the following technicians:

TESTING TECH:

VERIFIED BY:

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FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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 receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.

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