

#### About this Manual

Congratulations on purchasing the Bell+Howell BHDC4A Video Doorbell! The contents of this manual are subject to change without notice. Note that the example screens and product illustrations shown in this User's Guide may differ somewhat from the screens and configuration of the actual doorbell and app.

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#### FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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

#### CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

#### RF Exposure Warning

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must

be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

FCC: SAR standard Value: 1.6 W/Kg, Maximal Measure: 0.4 W/kg

#### **CE Mark Warning**

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

#### **Safety and Handling Precautions**

##### **Doorbell Information**

- Do not disassemble or attempt to service the doorbell yourself.
- Do not submerge the doorbell in liquid.
- Do not touch and put pressure on the lens.
- Do not use abrasive chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- The doorbell is not water resistant; it needs to be installed under a covered entryway.

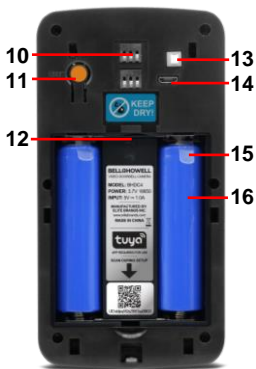
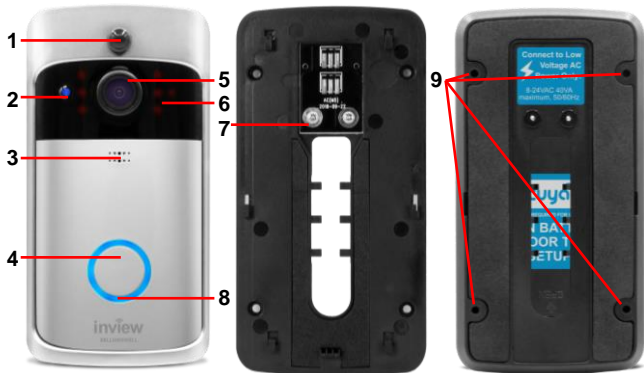
##### **Chime Information**

- Do not disassemble or attempt to service the chime yourself.
- Do not submerge or expose the chime to liquid.
- Do not use abrasive chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a soft dry cloth or micro fiber cloth.
- The chime is intended for indoor use only, do not place outdoors.
- Do not mount or place the chime near areas of high temperature.

##### **Battery Information**

- Use only the provided batteries that came with your doorbell. Using other types of batteries may damage the device and invalidate the warranty.
- Inserting the battery upside down can cause damage to the product and possibly cause an explosion.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Please keep the batteries out of the reach of children to prevent from swallowing batteries, which might cause poisoning.
- If the battery's color or shape changes, stop using it immediately and remove it from the doorbell.

## 1.1 Doorbell Interface

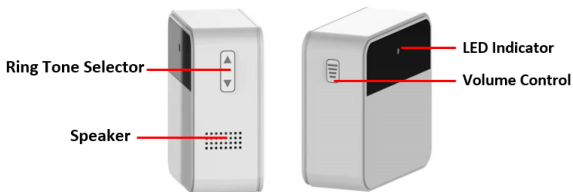


1	Motion Sensor	10	Mounting Plate Contacts
2	Light Sensor	11	Reset Button
3	Microphone	12	MicroSD Card Slot
4	Call Button	13	Anti-Theft Alarm Switch
5	Lens	14	Micro USB Port
6	Infrared LEDs	15	Battery Pull Tab
7	Wire Contacts	16	Battery
8	LED Indicator	17	Security Screw Hole
9	Mounting Holes	18	Speaker

## 1.2 Doorbell Button Function Description

<b>Function</b>	<b>Description</b>
<b>Lens</b>	Front capture device for all video.
<b>Infrared LEDs</b>	Infrared LEDs to aid with vision and recording in darkness.
<b>Microphone</b>	Used to record audio for playback and two-way talk.
<b>LED Indicator</b>	Shows the status of the doorbell.
<b>Motion Sensor</b>	Detects movement in front of the doorbell.
<b>Light Sensor</b>	Measures the light level and activates night vision when necessary.
<b>Call Button</b>	Activates the doorbell.
<b>Speaker</b>	Built-in speaker for two-way talk.
<b>Reset Button</b>	Press for 5 seconds to reset the doorbell.
<b>Micro USB Port</b>	Plug in a USB cable to charge the doorbell.
<b>MicroSD Card Slot</b>	Insert a MicroSD card for recording events for playback.
<b>Batteries</b>	The battery compartment for powering the doorbell.
<b>Security Screw Hole</b>	Insert the security screw to keep the doorbell secured to the surface it's mounted on.
<b>Mounting Holes</b>	The locations where the mounting screws are placed to mount the doorbell.
<b>Anti-Theft Alarm Switch</b>	Device that sounds an alarm when the doorbell is removed from the mounting plate.

### 1.3 Chime Interface



### 1.4 Chime Button Function Description

Function	Description
Ring Tone Selector	Use the Up or Down buttons to go to the next or previous ring tone.
Speaker	Built-in speaker for doorbell alerts.
LED Indicator	LED lights up when the doorbell is pressed.
Volume Control	Used to adjust the volume level.

## 2. Doorbell First Use

### 2.1 Anti-Theft Alarm

The doorbell has a built-in anti-theft switch that will sound an alarm when the anti-theft switch is released. The anti-theft switch is armed when the mounting plate is attached to the doorbell. Once the anti-theft switch is armed, the alarm will sound anytime the mounting bracket is removed from the doorbell. The alarm will turn off after 1 minute, or you can remove the batteries to silence the alarm instantly. Please note, removing the batteries will not reset the doorbell nor will it affect any captured images or videos.

### 2.2 Inserting a Memory Card (not included)

A memory card can be used, to store recorded activity for future playback on the app. You do not need a memory card if you purchase a cloud subscription on the Tuya app. When the battery is low, media stored on the memory card will not be erased. To insert a MicroSD memory card follow the steps below:

1. Remove the mounting plate by sliding it down towards the bottom of doorbell.
2. Remove the battery door by lifting up on the bottom of the door.
3. Insert the memory card into the slot located between the batteries. Ensure that the metal contacts are inserted first. Push the memory card in until you hear an audible click.

**Note: the memory card can only be inserted in one way. Do not force the card in if it will not go in smoothly.**

4. Replace the battery door back onto the doorbell.
5. To remove the memory card, simply push in and the card will eject back out.



**NOTE:**

- Please format the memory card before using the doorbell (Caution, this will erase all data on the card).
- Do not remove or insert the memory card when recording. It may damage the card or cause data loss.
- Memory card rating must be Class 10 or above, from compatible high-quality brands.

### 2.3 Charging the Batteries

1. Remove the mounting plate by sliding it down towards the bottom of doorbell.
2. Remove the battery door by lifting up on the bottom of the door.
3. Remove the battery tabs by pulling on the exposed plastic pull tab. Replace the battery door.
4. Insert the small end of the included USB cable into the doorbell's port on the back of the doorbell, and the larger end in to an AC adaptor (not Included).
5. A green LED will light up under the anti-theft alarm switch while the batteries are charging.
6. Charge the batteries fully before use. The charging time for the batteries is around 7 hours using a 1A AC adaptor. Under normal use, the battery charge will last 3-6 months. Charging time may vary.

**Note: If the doorbell captures an excessive number of events every day, the battery life will be reduced. Checking the live view or talking through the doorbell will also reduce the battery life. To reduce the number of events recorded each day, reduce the sensitivity level of the motion sensor.**

### 2.4 IR Night Vision Mode

The doorbell has built-in infrared (IR) LEDs for night vision recording - giving you the ability to capture videos in a dark environment. The infrared LEDs automatically activate when the level of ambient light is low.

**Note:**

The videos recorded while the IR LEDs are enabled will be recorded in black and white.



## 3. Using the Doorbell

### 3.1 Connecting your Doorbell to the Tuya Smart Home App

Connecting your doorbell to the Tuya Smart Home app will allow you to use the doorbell remotely. Through the app, you can get instant alerts when someone rings the doorbell, alerts when the motion sensor is triggered and see, hear and speak to visitors in real-time. To connect the doorbell to the app, follow the steps below.

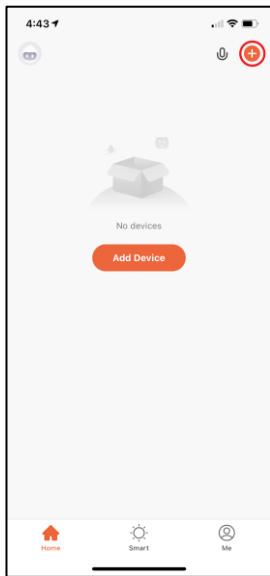
**Please note, actual app screens shown on your smartphone may appear different than what is shown in the user manual.**

1. Download the Tuya Smart Home app from either the Apple App Store or the Google Play Store. Search for "Tuya Smart" in the app store or scan the QR code below.



2. Open the Tuya Smart app, create an account and log in.

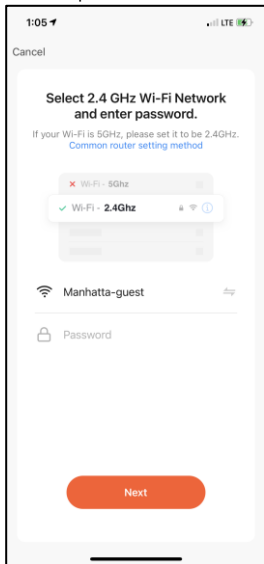
3. To add your doorbell to the app, select the + at the top right of the home screen. Then select the Security & Video Surveillance category on the left side of the screen, then select Smart Doorbell.



4. The app will now tell you to reset the device. To do this, first, remove the doorbell mounting plate from the back of the doorbell. Then, if you have not already done so, remove the plastic battery pull tabs from beneath the battery door. The camera may immediately enter setup mode, if it does not, press and hold the reset button on the back of the doorbell for 5 seconds.

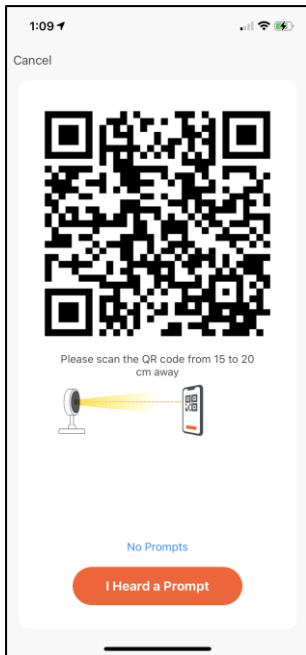
***If the doorbell does not enter setup mode after pressing the reset button, press the doorbell call button on the front of the doorbell once, then press and hold the reset button for 5 seconds.***

5. The doorbell will now say “The camera is now ready to begin pairing” and a blue LED will flash on the front of the doorbell.
6. In the app, select the circle indicating that you heard the prompt from the doorbell or that the front LED is flashing, then select next.
7. Next, select the WiFi network you wish to connect your doorbell to, then enter the password for the network and select next.

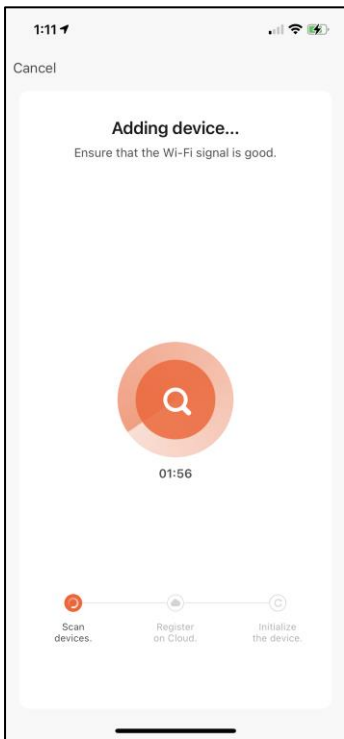


***Note: this product only works on 2.4 GHz networks, it will not work with 5 GHz networks.***

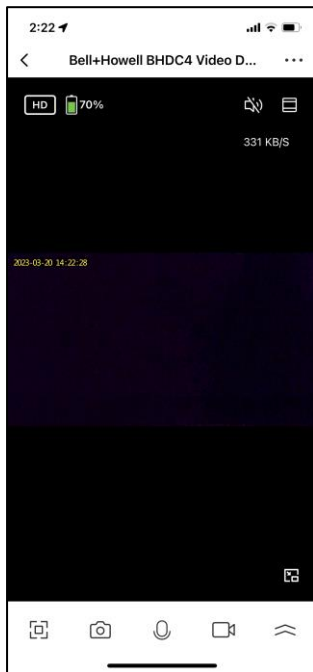
8. A QR code will now be displayed on the app, take the doorbell and point the doorbell lens at the QR code from approximately 4-8 inches away. When you hear the confirmation tone, select “I Heard a Prompt” on the bottom of the screen to proceed.



9. The app will establish a connection with the doorbell.

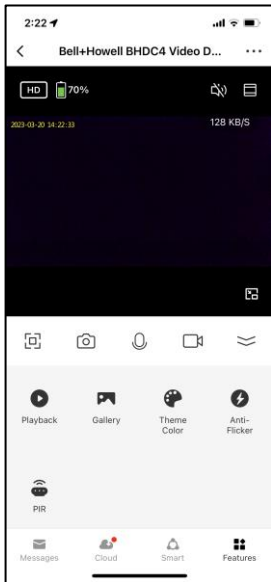


10. Once the doorbell is connected, it will show up in your devices list on the home page of the app. When you select the doorbell from the home page of the app you will see the live view of what the doorbell is pointing at.

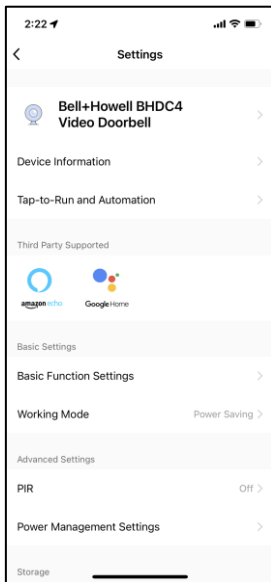
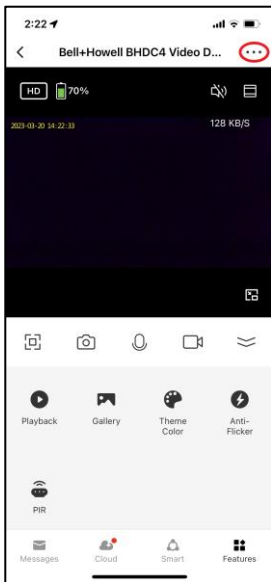


11. From here, you can take screenshots of the live image, speak through the doorbell, record the live view, playback previously recorded events and view previously captured screenshots.

12. Additional options can be found by pressing the two up arrows on the bottom right corner of the screen.



13. You can also change the device settings by selecting the three dots on the top right corner of the live view screen. From there you can change the name and the settings for the doorbell.



***Please note, actual app screens shown on your smartphone may appear different than what is shown on the user manual.***



#### 3.2 Connecting the Chime to the Video Doorbell

You can hear doorbell ring alerts from anywhere in your home through the chime accessory, without the need for a smart device. Follow the steps below to connect the chime to your doorbell.

1. Remove the rear cover of the chime and open the battery door. Install the included batteries, make sure that they are installed in the correct orientation, then replace the battery door.
2. Press and hold the volume button until the LED indicator on the front of the chime starts flashing.
3. While the chime LED indicator is flashing, press the button on the doorbell to complete the connection to the chime.
4. Once connected, the chime will sound whenever the doorbell button is pressed.
5. To change the volume level on the chime, press the volume button to cycle through the volume levels.
6. To change the ring tone, press the up or down buttons on the side of the chime to select your desired ring tone.
7. The chime can now be placed in a location of your choosing in your home, it is for indoor use only, and should not be placed outdoors.
8. To connect multiple chime units to the same doorbell, perform the steps above for each individual chime.

***Note: Multiple chimes can be connected to the same doorbell. A chime can only be connected to one doorbell at a time. The chime must be unpaired from the doorbell before pairing to a new doorbell.***

To unpair the chime from the doorbell, press and hold the volume button for 10 seconds, this will disconnect the chime from the doorbell. To reconnect the chime to the doorbell, follow the steps above.

### 3.3 Mounting the Doorbell

Your doorbell can be mounted securely to the outside of your home, follow the steps below to mount your doorbell.

**If you plan on wiring the video doorbell to the existing doorbell in your home, go to section 3.4 and follow steps 1-3 first, then return to this section and follow the steps below.**

1. Remove the mounting bracket from the rear of the doorbell. Then, using the mounting bracket as a template, mark the four holes where the screws will go. The recommended installation height is 4 feet above the ground. You can also check the live view from the app to pick your desired doorbell height.
2. If you're installing your doorbell on stucco, brick or concrete, use a 13/64" or 7/32" masonry drill bit to drill holes in your wall at the marked locations. Insert the included anchors into the hole, **make sure to use the package of four (4) anchors**. The anchors will fit tightly into the hole, you can use a rubber mallet or similar tool to **GENTLY** tap the anchor into the hole. If you're installing the doorbell on wood, skip this step.
3. Place the mounting bracket on the wall and align it with the anchors or the marked locations. **If you're wiring the doorbell, feed the existing doorbell wires through the hole in the mounting bracket first**. Using a Philips head screwdriver, drive the screws into your wall (or into the anchors, if installed) until they are flush with the mounting bracket. Do not overtighten the screws, that could cause the mounting bracket to crack.
4. If you are wiring your video doorbell, go to section 3.4 and follow step 4, then proceed to the next step below.
5. Next, slide the video doorbell onto the mounting bracket.
6. Then install the security screw into the bottom of the bracket. This will secure your doorbell to the bracket. The security screw must be removed to be able to remove the doorbell from the mounting bracket.
7. If you are wiring your video doorbell, turn the power back on for your doorbell and chime at your home's breaker or fuse box.

**Note: DO NOT USE any other screw than the included short security screw when securing your doorbell to the bracket.**

### 3.4 Connect the Wires (Optional)

Please follow the steps below to wire your video doorbell to an existing doorbell in your home. The video doorbell is compatible with doorbell systems supplying 10-24V AC/DC, 500mA at 50Hz. If your doorbell system is different than these specifications, or you are unsure if your systems' specifications, please consult a professional to install the video doorbell.

1. Before removing your old doorbell and installing the video doorbell, make sure to switch the power off for your doorbell and chime at your home's breaker or fuse box. This will protect you and your equipment during installation.
2. Try to ring your doorbell to confirm that you've flipped the right switch to turn the power off. If needed, you can switch off the main power at the breaker box instead. Please note, switching off the main power breaker will shut off power to your entire house.
3. When the power is off, remove your old doorbell and disconnect the wires from it. Make sure to keep the exposed part of the wires intact.
4. Loosen the preinstalled screws on the mounting bracket without removing them completely.
5. Connect the exposed part of the wires coming out of your wall to the screws on the front of the mounting bracket of your video doorbell. Either wire can connect to either screw. The order doesn't matter. Tighten the screws so that the wires are securely attached to the mounting bracket.

### 3.5 Mounting the Chime

Your chime can be placed on a surface or mounted on an indoor wall or surface, follow the steps below to mount your chime.

1. Slide the mounting bracket off of the back of the chime. Using the bracket as a template, mark the two holes where the screws will go.
2. If you're installing your doorbell on stucco, brick or concrete, use a 7/32" or 15/64" masonry drill bit to drill holes in your wall at the marked locations. For drywall, use a standard drill bit in the same sizes mentioned above. Insert the included anchors into the hole, **make sure to use the package of two (2) anchors**. The anchors will fit tightly into the hole, you can use a rubber mallet or similar tool to **GENTLY** tap the anchor into the hole. If you're installing the doorbell on wood, skip this step.

3. Place the mounting bracket on the wall and align it with the anchors or the marked locations. Using a Philips head screwdriver, drive the screws (not included) into your wall (or into the anchors, if installed) until they are flush with the mounting bracket. As alternative, you can mount your chime using the included double sided tape. Simply peel off one side of the tape and press it firmly to the back of the mounting bracket, then peel off the second side of the tape and press the mounting bracket firmly to the desired location.

***Note: Only use the double sided tape if you are mounting the chime to a completely flat surface, any surface bumps or irregularities might cause the tape to fail. Before mounting, clean the desired mounting area very well and make sure the surface is dry before mounting.***

4. Next, reattach the chime to the mounting bracket.

## 4. Smart Home Voice Integration

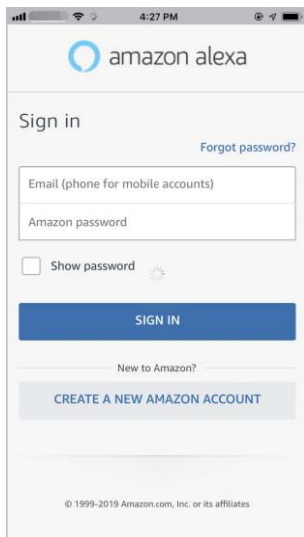
Your doorbell can be connected and controlled from Amazon Alexa or Google Home devices. To connect your video doorbell to you Amazon Alexa or Google Home devices, follow the steps below.

### 4.1 Amazon Alexa Integration

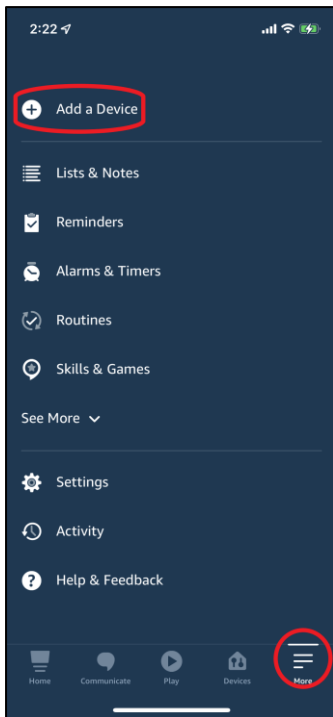
#### 4.1.1 Set up your Amazon Echo Device

You can skip this section if your Echo device is already set up.

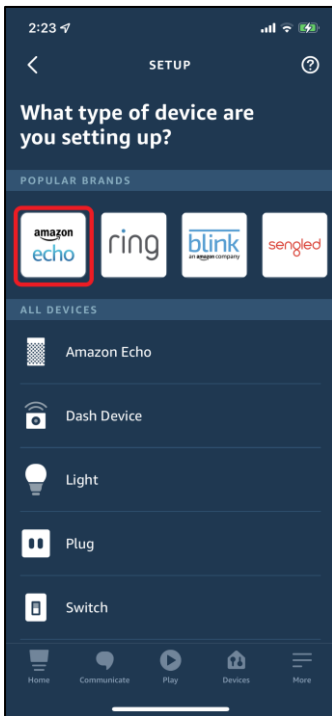
1. Make sure your Echo device is plugged in and powered on.
2. Open the Alexa App on your mobile device.
3. Type in your Amazon account and password, then tap “SIGN IN”.



4. Tap the “**More**” icon on the bottom of your smartphone screen. Then tap the “**Add a Device**” option on the top of your smartphone screen.



5. Then tap the amazon Echo icon.



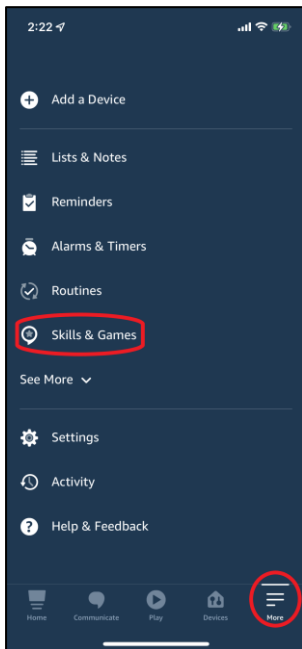
6. Then select which type of Echo device you are setting up, then tap continue.
7. Follow the steps in the Alexa app to finish setting up your Echo device.



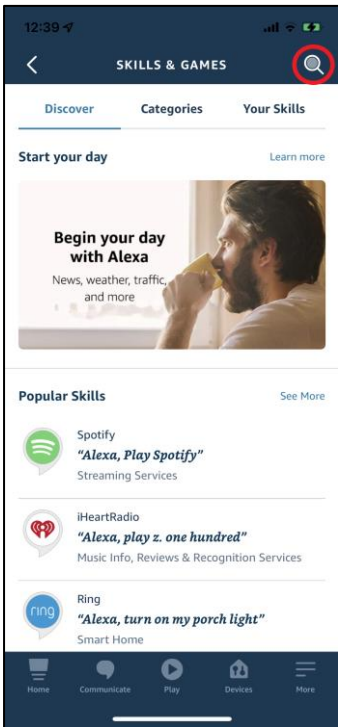
#### 4.1.2 Link Tuya Smart with Amazon Alexa

Once your Echo device has been set up, Tuya needs to be added as one of the skills that works with your Echo device. Follow the steps below to add Tuya to your Amazon Alexa account.

1. Open the Amazon Alexa app on your smartphone.
2. Tap the “**More**” icon on the bottom of your smartphone screen. Then tap the “**Skills & Games**” option in the middle of your smartphone screen.



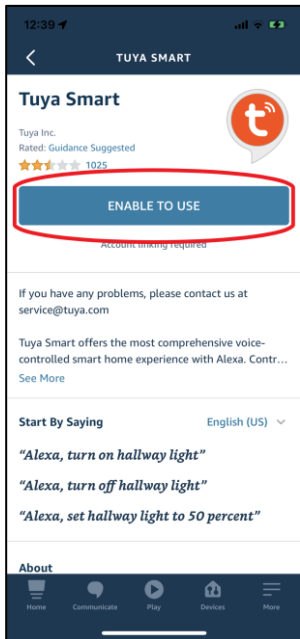
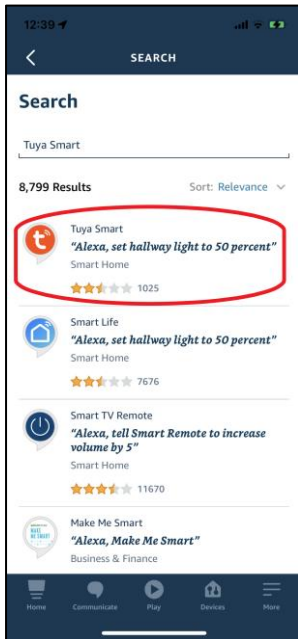
3. Then, tap the magnifying glass icon in the top right corner of the smartphone screen.



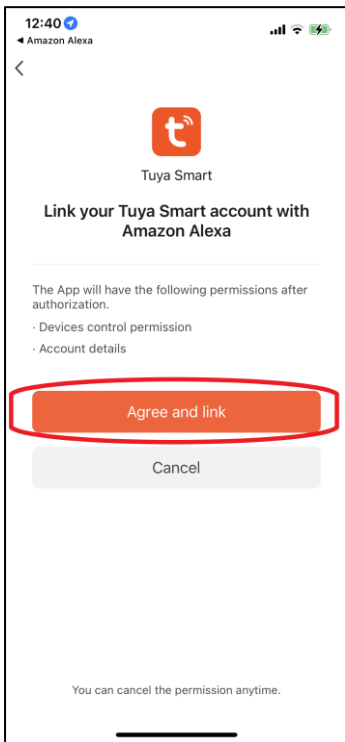
### 3. Using Your Doorbell

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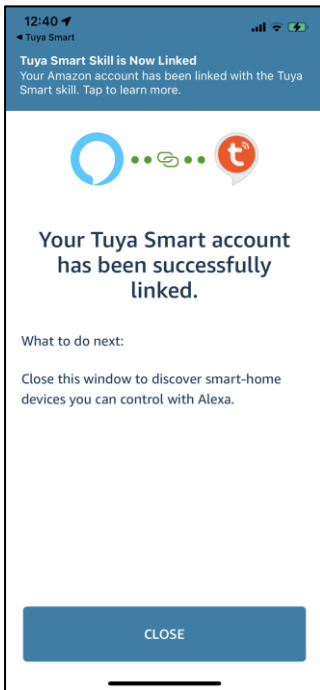
4. Then search for "Tuya Smart" and select the Tuya Smart skill. Then select "ENABLE TO USE".



5. Your smartphone will then exit the Alexa app and automatically open the Tuya Smart app. If you are not already logged into your Tuya account, login, then tap the “Agree and link” button.



6. The Alexa app should automatically reopen, if it doesn't, return to the Alexa app. Your video doorbell is now ready to use with Amazon Alexa and Echo devices.

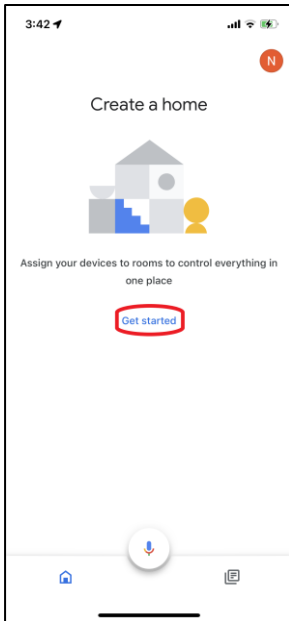


## 4.2 Google Home Integration

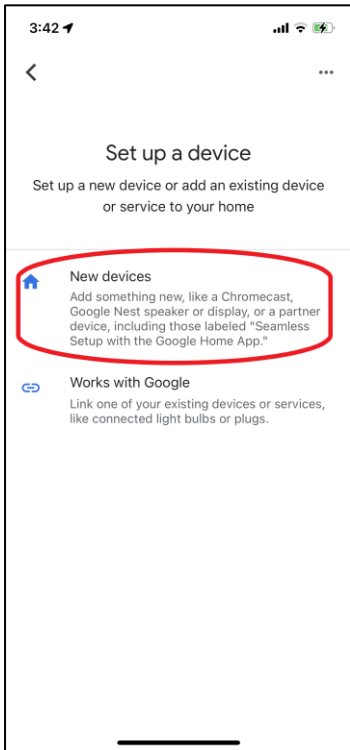
### 4.2.1 Set up your Google Home Device

You can skip this section if your Google Home device is already set up.

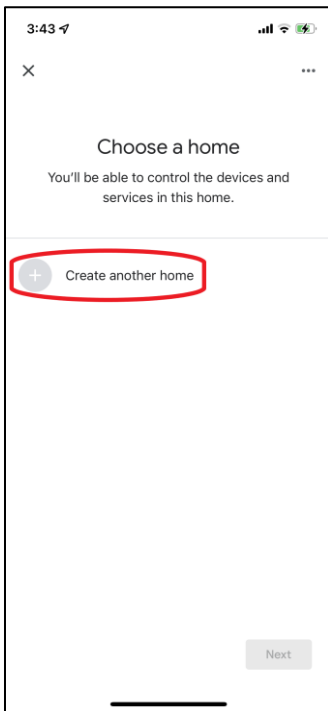
1. Make sure your Google Home device is plugged in and powered on.
2. Download and open the Google Home app on your mobile device.
3. Type in your Google account and password, then tap "SIGN IN".
4. From the home page of the app, select the "Get started" option.



5. Then select the "New Devices" devices option.



6. Then create a home by selecting the “Create another home” option.

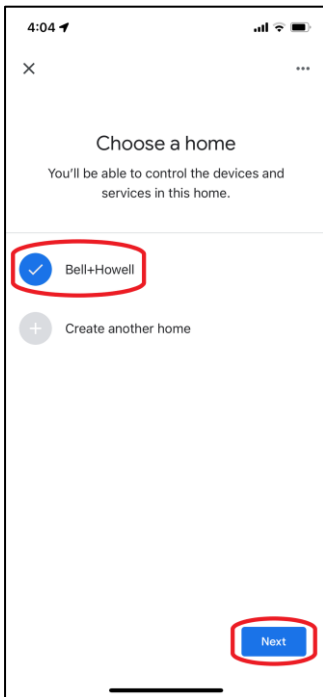


7. Name your home and enter your address and select next. Please note, if you skip adding your address, certain Google Home functions may not operate correctly. Please see the Google Home app for more information.

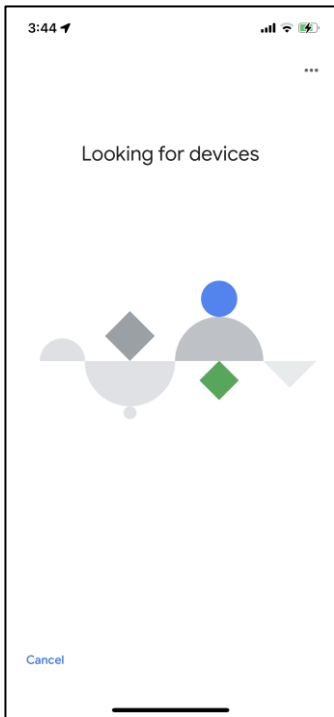


**Please note, make sure to name your home a name that can be spoken easily. Adding any special characters may cause problems with voice commands.**

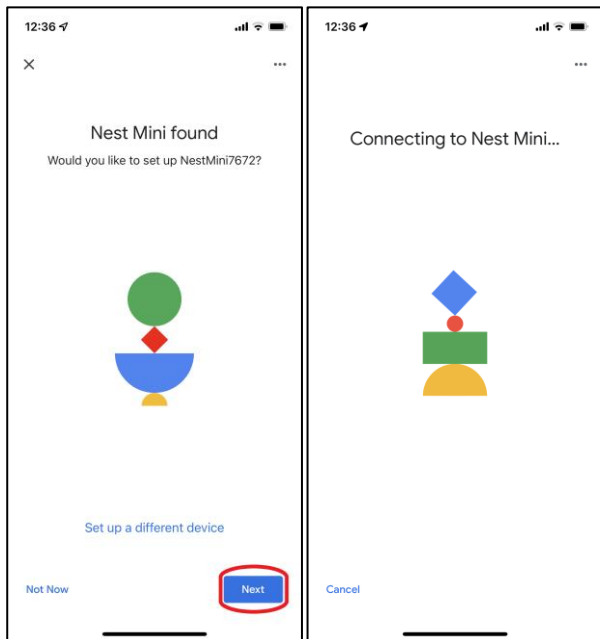
8. Once the home has been created successfully, select the home you want to add the Google Home device to. Make sure your Google Home device is plugged in and powered on, then press "Next",



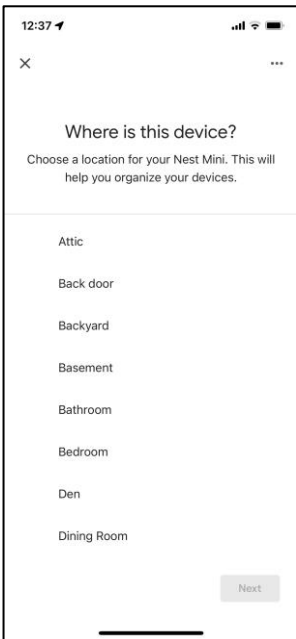
9. The app will now start looking for devices.



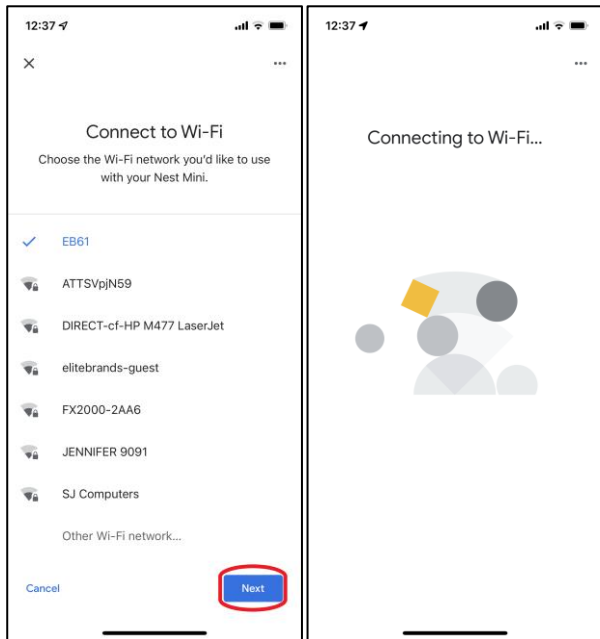
10. The Google Home device you are trying to connect should show on the screen, when it does, select the “Next” option to connect to it.



11. Once the device is connected, it will emit a sound, if you heard it select the “Yes” option. Then select the location of the Google Home device and select “Next”.

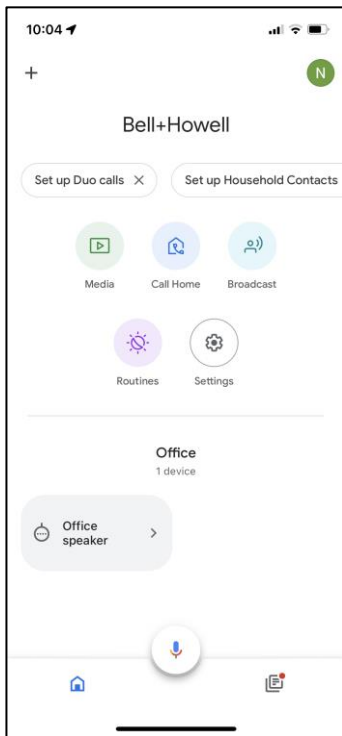


12. Next, select the WiFi network that the Google Home device will be connected to, select “Next” and then enter the network password and select “Next”.



13. Once the Google Home device connects to the WiFi network successfully, follow the in-app instructions to complete the setup of your Google Home device.

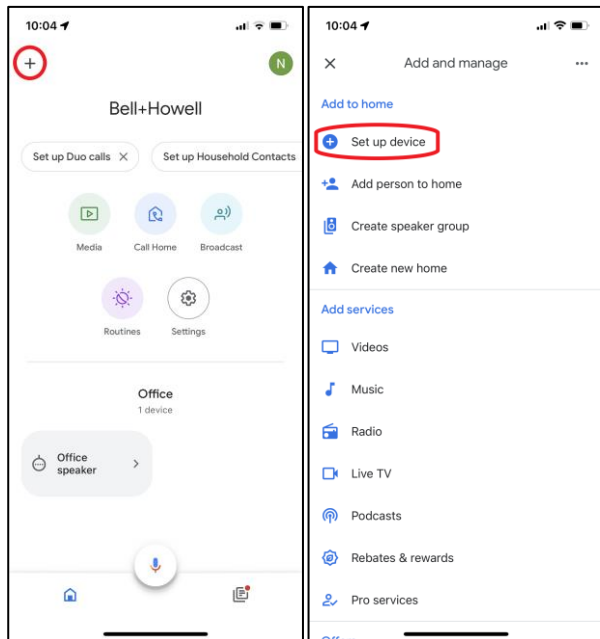
14. This will complete the Google Home device setup and the device will now show in your Google Home app.



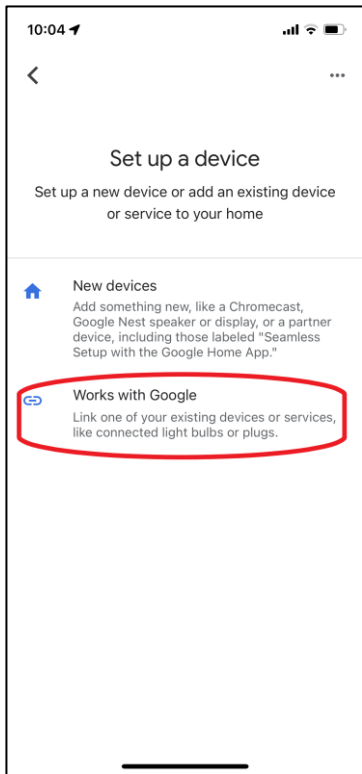
### 4.2.2 Link Tuya Smart with Google Home

Once your Google Home device has been set up, Tuya needs to be added as one of the skills that works with your device. Follow the steps below to add Tuya to your Google Home account.

1. Open the Tuya app and make sure you are signed in.
2. Open the Google Home app and select the + icon at the top left corner of the screen and then select the “Set up device” option.

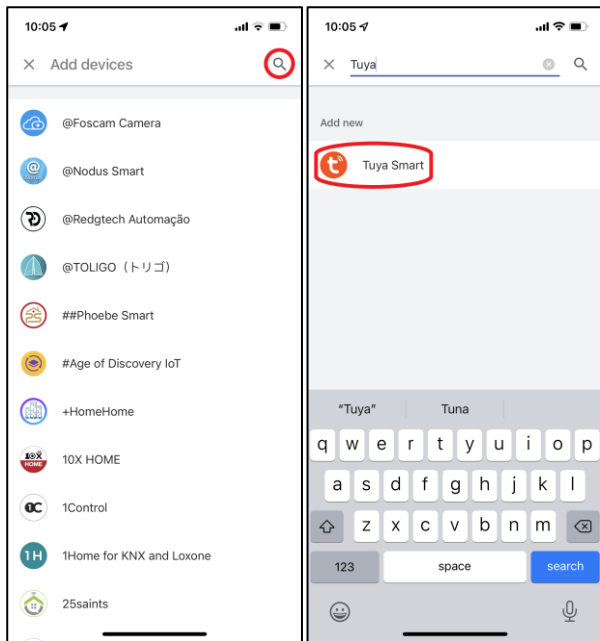


3. Then select the "Works with Google" option.

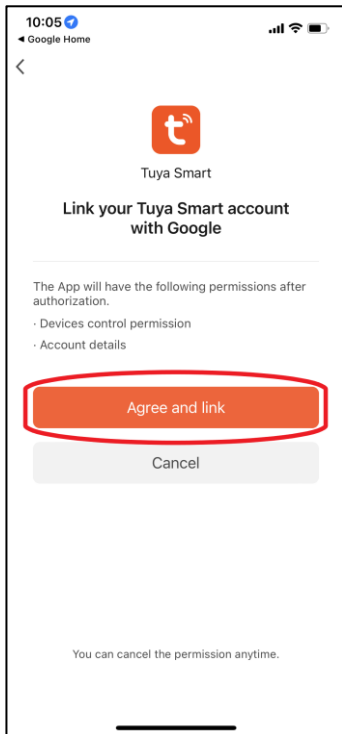




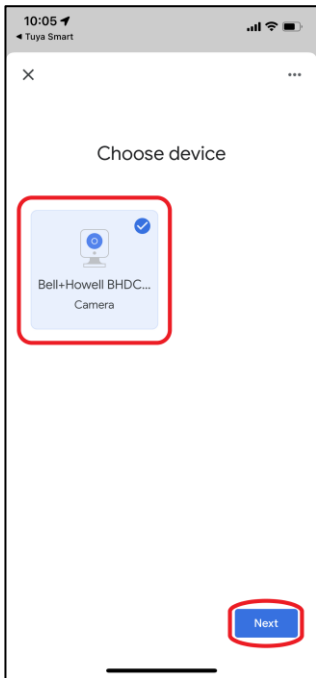
4. Then select the search icon in the top right corner of the screen and type in "Tuya". Then select the Tuya Smart icon shown on the screen.



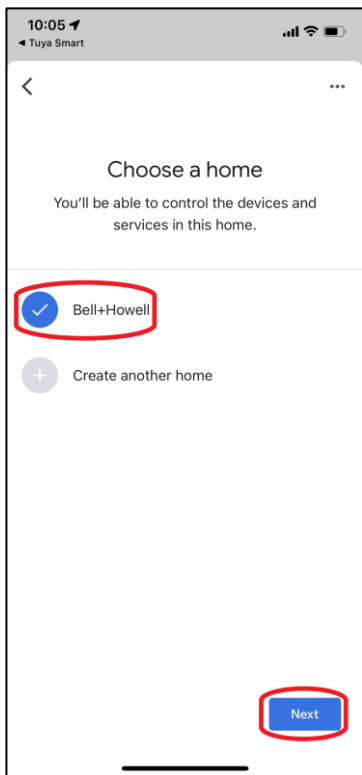
5. The Tuya app will now automatically open, select the “Agree and link” option shown on your screen.



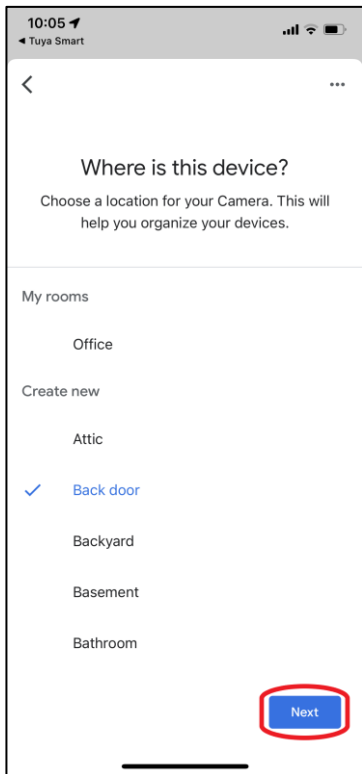
6. The Google Home app will now automatically reopen. Choose the device you would like to connect to Google Home, in this case the Bell+Howell BHDC4 Video Doorbell and then select "Next".



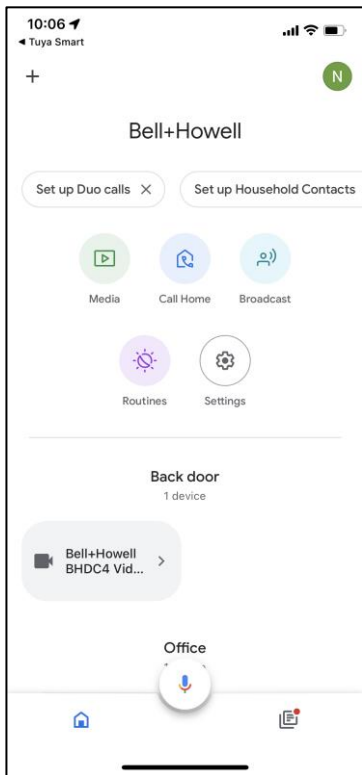
7. Then select the home you would like to add the device to and select "Next".



8. Select the location where the video doorbell is located then select "Next".



9. Your video doorbell is now connected to your Google Home account.



## 5. Technical Specifications

<b>Model Number</b>	Bell+Howell BHDC4A
<b>Lens</b>	Fixed Focus • 160° Field of View
<b>Shutter</b>	Electronic
<b>Pixels (video)</b>	H.264: 1080p Full HD
<b>Connectivity</b>	WiFi 2.4GHz (802.11 b/g/n)
<b>Motion Detection</b>	High Sensitivity PIR Sensor
<b>Detection Range</b>	5 Feet (1.5 Meters)
<b>Weather Resistance</b>	Dust Resistance (IP5X, when installed in mounting bracket)
<b>Night Vision</b>	Infrared LEDs (Auto Switching)
<b>Smart Home Voice Control</b>	Amazon Alexa • Google Assistant
<b>App</b>	Tuya Smart (iOS & Android)
<b>Chime Ring Tones</b>	35 Ring Tone Options
<b>Chime Volume</b>	4 Volume Levels
<b>Recording Media</b>	MicroSD • MicroSDXC with Compatible High Quality Brands; Maximum: 32GB
<b>I/O Ports</b>	Micro USB, USB 2.0 (high speed) • Speaker
<b>Power</b>	18650 x 2; 3.7v, 2 x 2,600mAh (5,200mAh Total)
<b>Dimensions</b>	5.7 x 2.9 x 1.5 in. • 8.9 oz.

# BELL HOWELL

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