



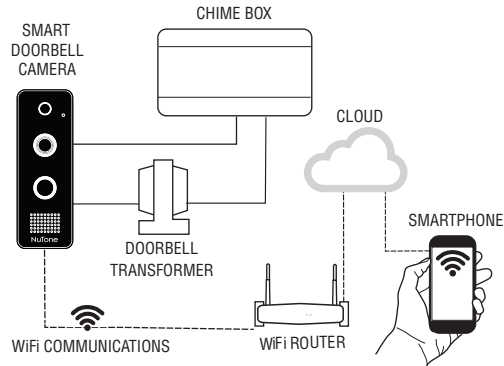
NuTone KNOCK™

DCAM100

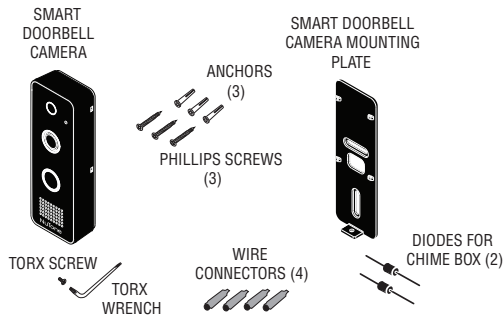


Installation  
Instructions

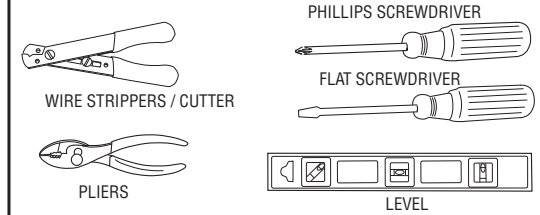
### System Description



### Doorbell Camera Components



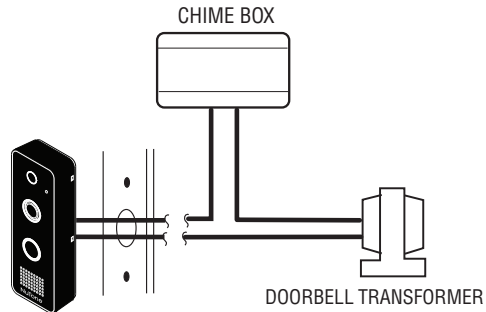
### Tools For Installation



#### OPTIONAL



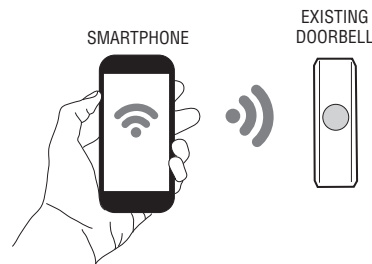
### System Overview



### 1 Prepare for Installation

#### VERIFY WIFI STRENGTH

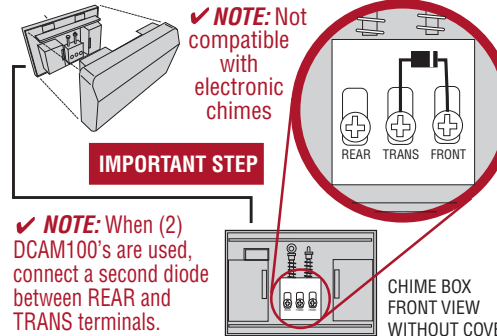
- Go to existing doorbell location.
- Use a Smartphone connected to the installations WiFi router to confirm adequate signal strength (2 - 3 bars).



### 2 Installing Diode in Chime Box

✓ **NOTE:** It is recommended to **TURN POWER OFF** before performing any wiring.

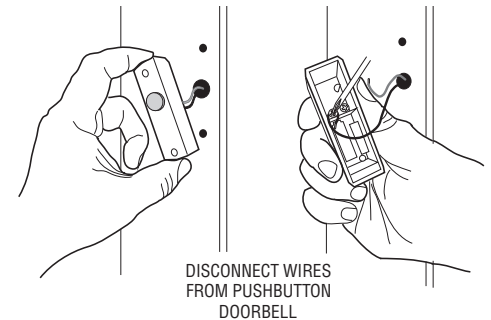
- OPEN CHIME BOX
- INSTALL DIODE AS SHOWN



✓ **NOTE:** When (2) DCAM100's are used, connect a second diode between REAR and TRANS terminals.

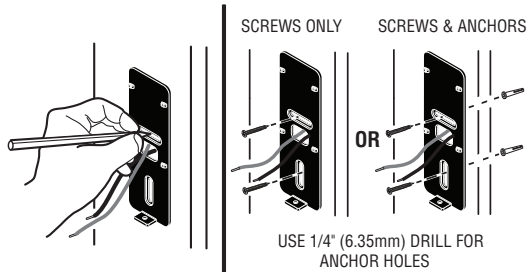
### 3 Existing Doorbell Removal

- Remove existing doorbell pushbutton from location.
- Disconnect wires from back of pushbutton.



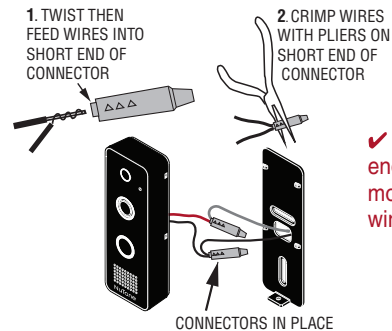
### 4 Mounting Doorbell Camera Plate

- Use mounting plate as guide to mark holes.
- Use leveling tool to align mounting plate.



### 5 Wiring Doorbell Camera

- Connect doorbell wires using weather-resistant wire connectors (included).
- Ensure there is enough room behind the mounting plate for excess wires.



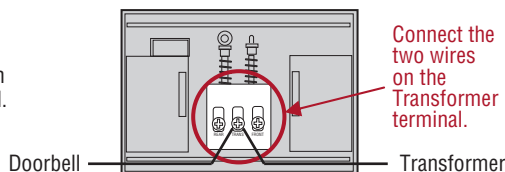
### 6 LED Indicators Status

Color	Status	Note
Flashing Blue once	Power ON	
Flashing Blue (Slow)	Cold start at low temperature	
Solid Blue 5 seconds	Connect to 16V transformer without diode	1. Occurs after power on, or push the button 2. Can't ring the chime box
Flashing Blue 5 seconds (fast)	The voltage of transformer is low	1. Occurs after power on, or push the button 2. Proceed to Step 7.
Solid Blue	The voltage of transformer is too high	Doorbell can't work
Solid Red	Powering up	
Flashing Green/Red	Discovery Mode	Skip Step 7 and proceed to Step 8.
Flashing Green (Fast)	Connecting to Cloud Server	
Solid Green	Connected to Cloud Server	Skip Step 7 and proceed to Step 8.
Flashing Green (Slow)	Session in Progress	
Flashing Red (Slow)	Not connected to network	
Flashing Red (Fast)	Firmware update	

## 7 Wiring Doorbell without Chime Box connected (AC 16V, 10VA ~ 30VA)

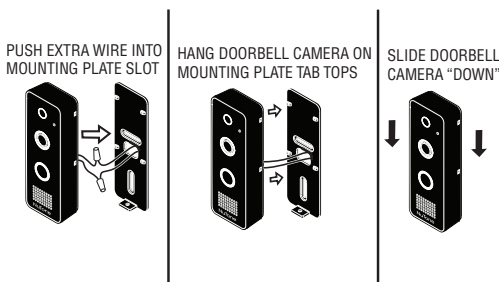
If your transformer voltage is too low (see Step 6), proceed with Step 7. Otherwise, skip Step 7 and proceed to Step 8.

1. Turn off the power.
2. Open the chime box.
3. Connect the two wires on the Transformer terminal.
4. Turn on the power.
5. Blue LED flashes once.
6. The mechanical chime will no longer ring. Add the optional Wi-Fi Chime if desired.



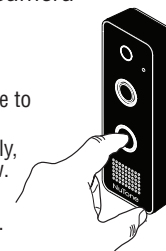
Connect the two wires on the Transformer terminal.

## 8 Camera Installation to Mounting Plate



## 9 TEST Doorbell Camera

- TURN power ON.
- Press doorbell button.
- If chime rings normally, continue to next step.
- If chime DOES NOT ring normally, the voltage of transformer is low. Go to Step 7. Or, replace with a new 16 VAC, 30 VA transformer.



## 10 Camera Installation / Security Screw



## 11 Setup Operation

- 1 **Download Smartphone App**  
On the resident's Smartphone, download and install the "NuTone Knock™" App from the Google Play Store (for Android phones) or from Apple App Store (for iOS phones).
  - 2 **Create an Account**  
With the Smartphone connected to the local network router via WiFi, select "Create an Account." Enter a name, valid email address, and password for the account, then select "Create an Account." Receive the verification e-mail from webinfo@nutonesmarthomeseries.com with the activation code.  
NOTE: Check junk/spam email folder. This code expires in one hour after the email is sent. Enter the activation code in the app and login.
  - 3 **Connecting to Doorbell Camera**  
The doorbell camera should be in Discovery mode and the button indicator should flash red and green. If the indicator does not flash, try pressing the call button for ten to fifteen seconds to enter Discovery mode.
  - 4 **Follow Steps on App for Final Setup.**
- ✓ **NOTE: Remember to check App for latest version of doorbell camera firmware in the About Device Menu.**

## Doorbell Camera Troubleshooting

### MY DOORBELL APP

- Q:** The App doesn't save photos or videos on my smartphone?  
**A:** Please ensure you have sufficient memory on your smart device. Also ensure permissions are enabled on the App to access the device memory.

### NETWORK

- Q:** The doorbell doesn't register on the Wi-Fi network. Why?  
**A:** The smart Doorbell Camera may be out of range of your Wi-Fi network. Move the router or install a Wi-Fi extender. Note, the Doorbell Camera supports 2.4Ghz networks only.
- Q:** The smart Doorbell Camera loses network connectivity?  
**A:** The smart Doorbell Camera may be out of range of your Wi-Fi network. Move the router or install a Wi-Fi extender.

## Doorbell Camera Troubleshooting

### POWER

- Q:** The doorbell power cycles off and on?  
**A:** Check that the doorbell camera power wires are securely connected. The existing doorbell wiring may be bad. Refer to Step 7.
- Q:** Why doesn't the doorbell camera power up?  
**A:** Refer to installation instructions:  
1. Confirm transformer power is turned ON.  
2. Confirm diode is installed correctly.  
3. Confirm wiring / connections are correct and secure.

## Regulatory Information

The DCAM100 is certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions. Refer to DCAM-100.

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.

### FCC Notice

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 to help.

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

### IC Notice

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with the Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## Limited Warranty

**Warranty Period and Exclusions:** Broan (the "Company") warrants to the original consumer purchaser of its product ("you") that the product (the "Product") will be free from material defects in the Product or its workmanship for a period of one (1) year from the date of original purchase.

The limited warranty period for any replacement parts provided by the Company and for any Products repaired or replaced under this limited warranty shall be the remainder of the original warranty period.

This warranty does not cover speed controls, fluorescent lamp starters, tubes, halogen and incandescent bulbs, fuses, filters, ducts, roof caps, wall caps and other accessories for ducting that may be purchased separately and installed with the Product. This warranty also does not cover (a) normal maintenance and service, (b) normal wear and tear, (c) any Products or parts which have been subject to misuse, abuse, abnormal usage, negligence, accident, improper or insufficient maintenance, storage or repair (other than repair by the Company), (d) damage caused by faulty installation, or installation or use contrary to recommendations or instructions, (e) any Product that has been moved from its original point of installation, (f) damage caused by environmental or natural elements, (g) damage in transit, (h) natural wear of finish, (i) Products in commercial or nonresidential use, or (j) damage caused by fire, flood or other act of God. This warranty covers only Products sold to original consumers in the United States by the Company or U.S. distributors authorized by the Company.

This warranty supersedes all prior warranties and is not transferable from the original consumer purchaser.

**No Other Warranties:** This Limited Warranty contains the Company's sole obligation and your sole remedy for defective products. The foregoing warranties are exclusive and in lieu of any other warranties, express or implied. **THE COMPANY DISCLAIMS AND EXCLUDES ALL OTHER EXPRESS WARRANTIES, AND DISCLAIMS AND EXCLUDES ALL WARRANTIES IMPLIED BY LAW, INCLUDING WITHOUT LIMITATION THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** To the extent that applicable law prohibits the exclusion of implied warranties, the duration of any applicable implied warranty is limited to the period specified for the express warranty above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Any oral or written description of the Product is for the sole purpose of identifying it and shall not be construed as an express warranty.

Whenever possible, each provision of this Limited Warranty shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision is held to be prohibited or invalid, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the other remaining provisions of the Limited Warranty.

**Remedy:** During the applicable limited warranty period, the Company will, at its option, provide replacement parts for, or repair or replace, without charge, any Product or part thereof, to the extent the Company finds it to be covered by and in breach of this limited warranty under normal use and service. The Company will ship the repaired or replaced Product or replacement parts to you at no charge. You are responsible for all costs for removal, reinstallation and shipping, insurance or other freight charges incurred in the shipment of the Product or part to the Company. If you must send the Product or part to the Company, as instructed by the Company, you must properly pack the Product or part—the Company is not responsible for damage in transit. The Company reserves the right to utilize reconditioned, refurbished, repaired or remanufactured Products or parts in the warranty repair or replacement process. Such Products and parts will be comparable in function and performance to an original Product or part and warranted for the remainder of the original warranty period.

**Exclusion of Damages:** **THE COMPANY'S OBLIGATION TO PROVIDE REPLACEMENT PARTS, OR REPAIR OR REPLACE, AT THE COMPANY'S OPTION, SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY AND THE COMPANY'S SOLE AND EXCLUSIVE OBLIGATION. THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL, INDIRECT, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE PRODUCT, ITS USE OR PERFORMANCE.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

This warranty covers only replacement or repair of defective Products or parts thereof at the Company's main facility and does not include the cost of field service travel and living expenses.

Any assistance the Company provides to or procures for you outside the terms, limitations or exclusions of this limited warranty will not constitute a waiver of such terms, limitations or exclusions, nor will such assistance extend or revive the warranty.

The Company will not reimburse you for any expenses incurred by you in repairing or replacing any defective Product, except for those incurred with the Company's prior written permission.

**How to Obtain Warranty Service:** To qualify for warranty service, you must (a) notify the Company at the address or telephone number stated below within seven (7) days of discovering the covered defect, (b) give the model number and part identification and (c) describe the nature of any defect in the Product or part. At the time of requesting warranty service, you must present evidence of the original purchase date. If you cannot provide a copy of the original written limited warranty, then the terms of the Company's most current written limited warranty for your particular product will control. The most current limited written warranties for the Company's products can be found at [www.broan.com](http://www.broan.com).

Broan 926 West State Street, Hartford, WI 53027 www.nutone.com 888-336-3948 www.nutone.ca 877-896-1119

## Accessories for NuTone KNOCK™

MODEL	DESCRIPTION
LA11WH	Wired Door Chime
LA227WH	Wi-Fi Door Chime

# NuTone®

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