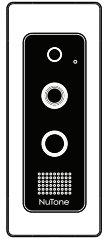


NuTone

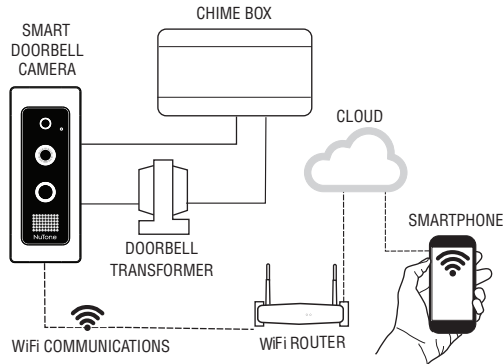
NuTone KNOCK™ Flush Mount

DCAM100FM

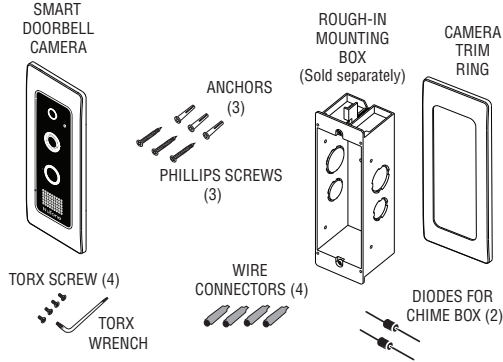


Installation
Instructions

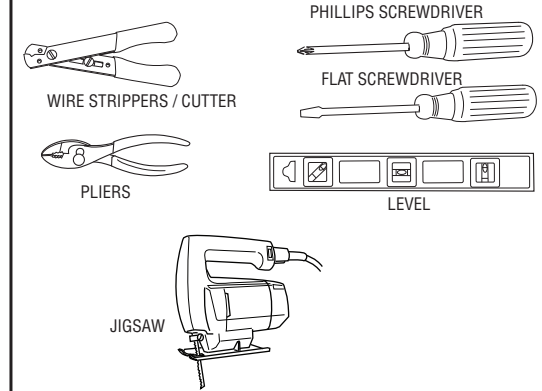
System Description



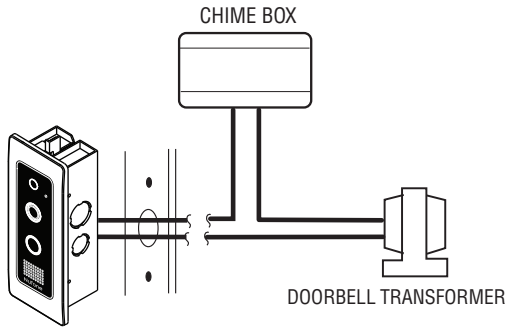
Doorbell Camera Components



Tools For Installation



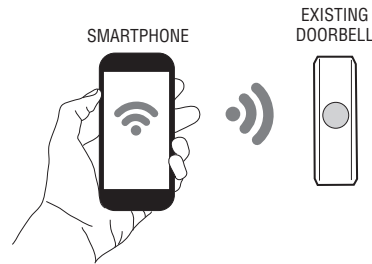
System Overview



1 Prepare for Installation

VERIFY WiFi STRENGTH

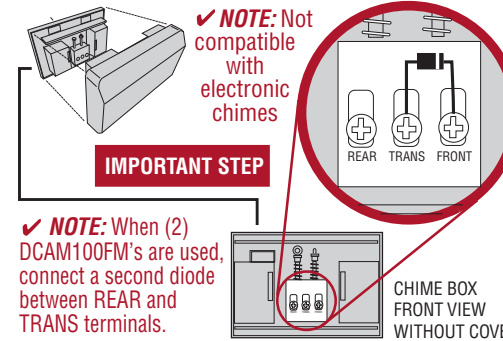
- Go to existing doorbell location.
- Use a Smartphone connected to the installation's WiFi router to confirm adequate signal strength (2 - 3 bars).



2 Installing Diode in Chime Box

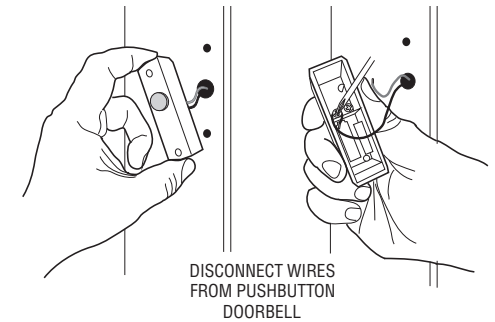
✓ **NOTE:** It is recommended to **TURN POWER OFF** before performing any wiring.

- 1 OPEN CHIME BOX
- 2 INSTALL DIODE AS SHOWN



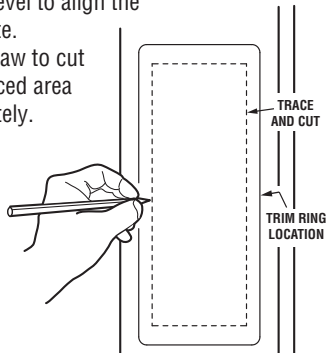
3 Existing Doorbell Removal

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



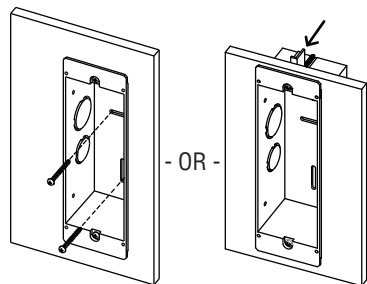
4 Cut Out for Rough-in Box

- Use template (provided) to trace the rough-in cutout area in desired location.
- Use a level to align the template.
- Use a saw to cut out traced area accurately.



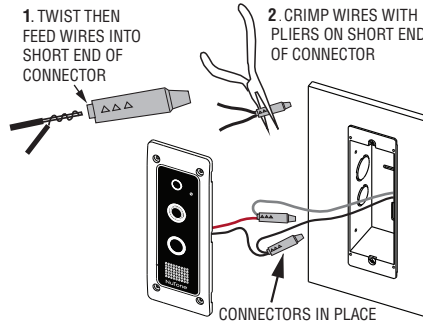
5 Install Rough-in Box

- **Method 1:** Ensure that screws will have proper supporting material in the wall.
- **Method 2:** Wall board must be 1-inch or less in thickness to use tabs. Do not overtighten, as tabs can break.



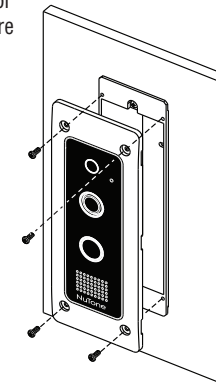
6 Wiring Doorbell Camera

- Run wires into rough in box for electrical connections.
- Connect doorbell wires using weather-resistant wire connectors (included).



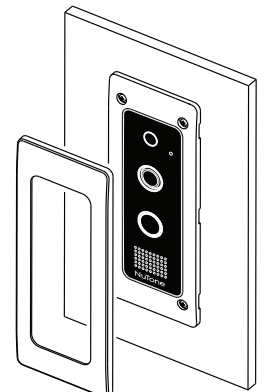
7 Camera Installation / Security Screw

- Use 4 security screws (provided) with tool (provided) to secure camera to rough in box.



8 Complete Installation

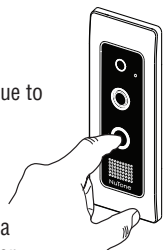
- Press the trim ring into place.



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.
- Check the wire connections on the unit, doorbell, and transformer.



10

LED Indicators Status

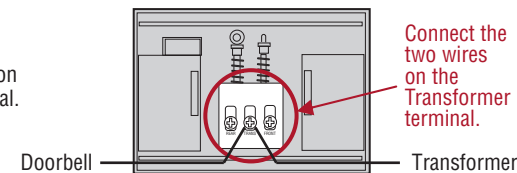
Color	Status	Note
Flashing Blue once	Power ON	
Flashing Blue (Slow)	Cold start at low temperature	
Solid Blue 5 seconds	Connect to 16V transformer without diode	1. Occurs after power on, or push the button 2. Can't ring the chime box
Flashing Blue 5 seconds (fast)	The voltage of transformer is low	1. 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	

11

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

If your transformer voltage is too low (see Step 10), proceed with Step 11. Otherwise, skip Step 11 and proceed to Step 12.

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.



12

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."

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.

Accessories for NuTone KNOCK™

MODEL	DESCRIPTION
LA11WH	Wired Door Chime
LA227WH	Wi-Fi Door Chime
S97021209	Mounting Box/Hardware Pack
S97021210	Camera Trim Ring
DCAM100RB	Rough-in Box



Regulatory Information

The DCAM100FM is certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions. Refer to DCAM100FM.
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.