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NAPCO iBridgeVideo IBV-DBELL Video Doorbell Installation Guide

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WI2304CLF 11/21

Description

The NAPCO **IBV-DBELL** is an HD Infrared power-wired Wi-Fi outdoor motion-activated Video Doorbell that allows the viewing of live and recorded video clips through the **iBridgeVideo App** (Android or iOS). Its integral PIR and two-way audio connects to your smartphone, allowing for motion-triggered video clip email notifications. To activate the doorbell, you first need an active NAPCO ComNet Dealer account at www.NapcoComNet.com.

- Up to 1080P HD video talk with 140° horizontal angle
- IR powered night vision
- PIR detection with 3 configurable zones
- Work with existing mechanical/electronic chime
- Easy installation (Wi-Fi), wide voltage power supply
- 2-Way talk over the Internet, cloud storage

Included Components

- **IBV-DBELL** Video Doorbell
- Chime Kit Module
- Mounting Hardware
- Mounting Bracket
- Mounting Tools

Quick Install Summary:

- a. Activate doorbell at www.NapcoComNet.com.
- b. Remove power to the doorbell at the breaker.
- c. Wire the doorbell and install the Chime Kit module.
- d. Power the doorbell (do not mount fully).
- e. Install the iBridgeVideo app on your smart device.
- f. Launch the iBridgeVideo app and log in.
- g. Use the iBridgeVideo app to add and configure the doorbell.
- h. Fully mount the doorbell (finish step "d").

Doorbell and Chime Kit Installation

Installing the Door Bell

1. Remove power to the doorbell at the breaker.
2. Remove the existing wired external doorbell push button from its installation surface and disconnect its two wires.
3. Place the oval hole in the Mounting Bracket over the two doorbell wires. Ensure the Mounting Bracket's two mounting holes are at the top. Using the level to ensure horizontal mounting, mark the location of the three mounting holes.
4. On brick, stucco, or concrete, use a small drill bit to drill holes in the mounting surface, and install the anchors (anchors not needed if mounting on wood or siding). Secure the Mounting Bracket to the mounting surface (see Installation Exploded View on page 7).
5. Connect the existing doorbell wiring to the **IBV-DBELL**

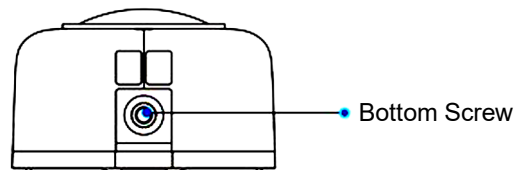
terminals, then feed the wires back into the wall. **Note:** Wires are non-polarized, therefore either wire can be connected to either **IBV-DBELL** terminal.

Installing the Chime Module

Installing the Chime Kit module (used only when connecting **IBV-DBELL** to a wired doorbell chime) helps maintain the correct power to trigger your existing home wired doorbell chime mechanism.

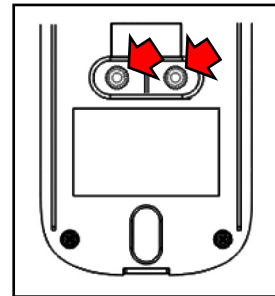
1. Ensure that the doorbell circuit is unpowered (remove power at the breaker).
2. Locate the existing internal doorbell chime mechanism and remove its cover.
3. On the side of the Chime Kit module is a socket; insert the harness plug into this socket until it snaps in place.
4. Inside the existing internal doorbell chime mechanism are two wires that are connected to two terminals (one terminal is usually labeled "FRONT" and the other is usually labeled "TRANS" or "COMM"). Without removing the existing wires, simply loosen each terminal and connect one Chime Kit wire to one terminal, and the other Chime Kit wire to the other terminal.
5. Restore power at the breaker. Ensure the LED at the front of the **IBV-DBELL** lights. **Note:** It might take a couple of minutes for the **IBV-DBELL** to fully power up. Follow the **Doorbell Enrollment** process (detailed in the next section, below) to enroll your **IBV-DBELL** into your iBridgeVideo account.

After the **IBV-DBELL** is fully enrolled, secure the **IBV-DBELL** to its Mounting Bracket by sliding the top of the unit into the protruding tab at the top of the Mounting Bracket, and secure the bottom of the unit with the screw provided.



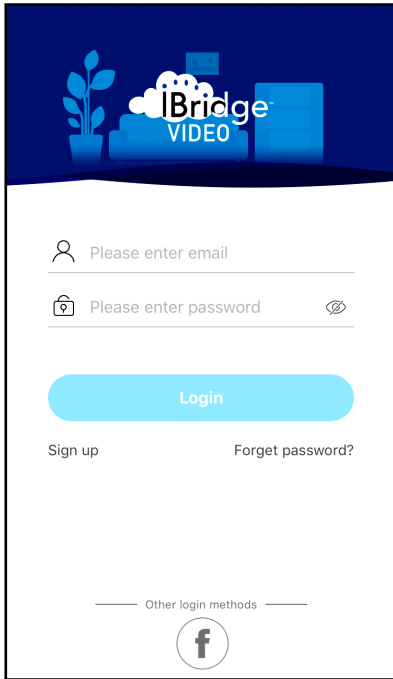
Doorbell Enrollment Using the App

The following steps display Android screen images (iOS devices are similar). Perform the following procedure only after the doorbell(s) have been activated at www.NapcoComNet.com. In addition, the doorbell must be powered (as detailed above) and its blue LED must be flash-



ing continuously. Proceed as follows:

1. Connect your smart device to the local Wi-Fi network.
2. Open the iBridgeVideo app. Type a Username (use your full email address) and Password and tap **Login**.



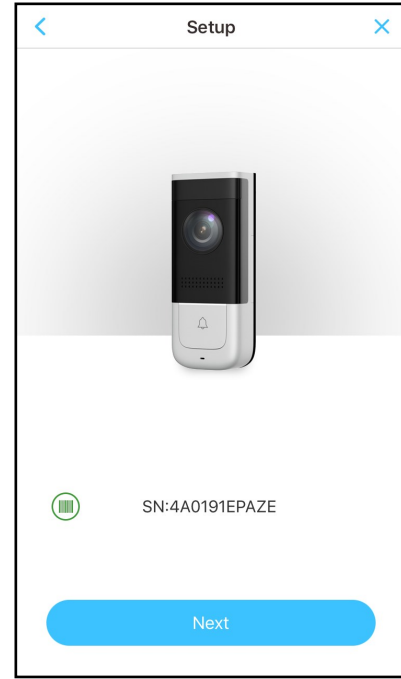
3. Tap "+" to add the doorbell.



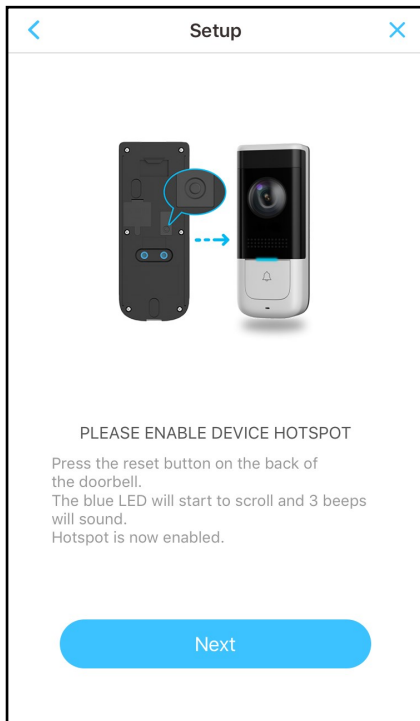
4. Scan the QR code located on the back of the doorbell, then tap **OK**. If you have trouble scanning the code, tap **Manually enter SN** and type the serial number.



5. Tap **Next** to connect the doorbell to the Wi-Fi network.

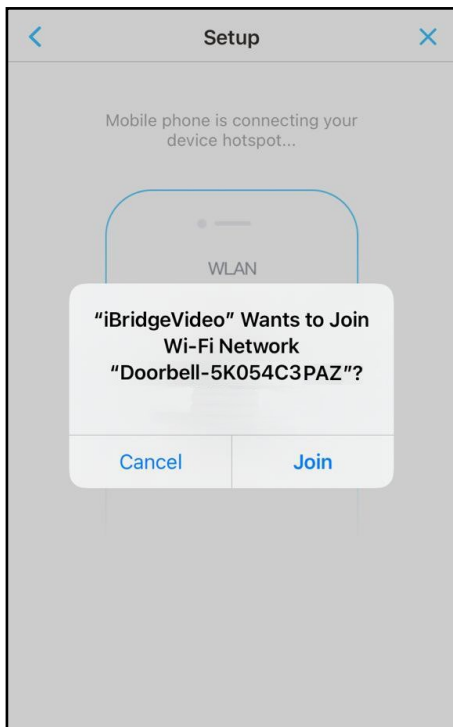


6. Enable your doorbell "hotspot": With the doorbell LED flashing (indicating it is not yet connected to a network), press and release the **"Reset"** button located on the back of your doorbell (see diagram on page 7). The doorbell will beep 3 times and its LED will begin to scroll. Tap **Next**.

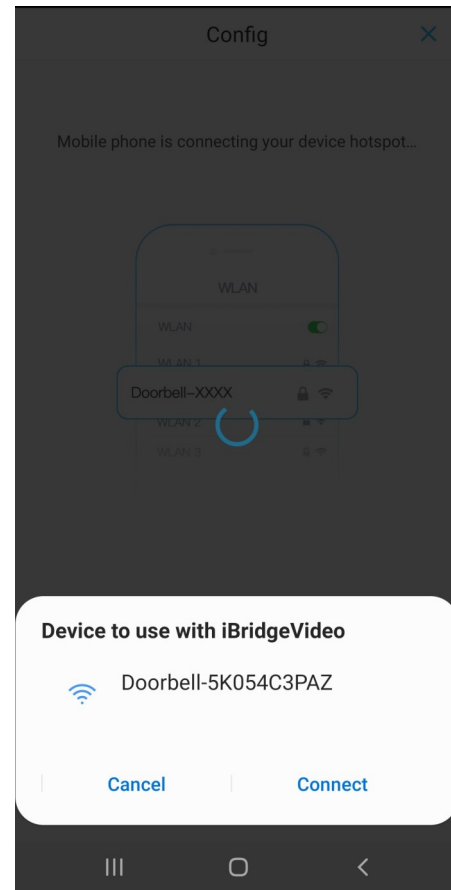


Note: Depending on IBV-DBELL version, you will hear, "Hotspot is Enabled" instead of 3 beeps.

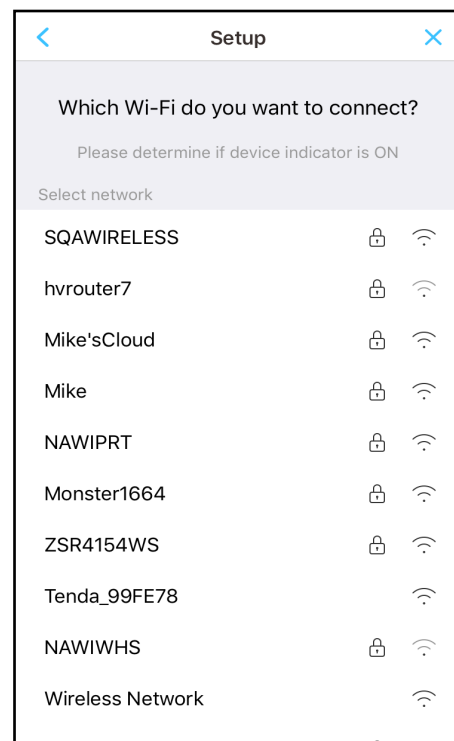
7. The app will now prompt you to connect to the doorbell's hotspot. With iOS devices, the screen below will appear. Tap **Join** to continue.



With Android devices, the screen below will appear. Tap **Connect** to continue.

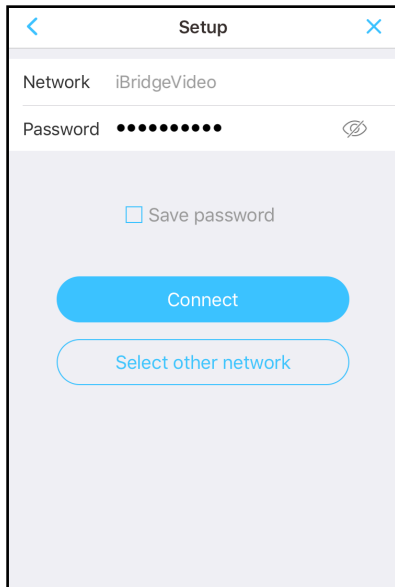


8. Tap to select the name of the 2.4GHz Wi-Fi network to which you wish to connect your doorbell.

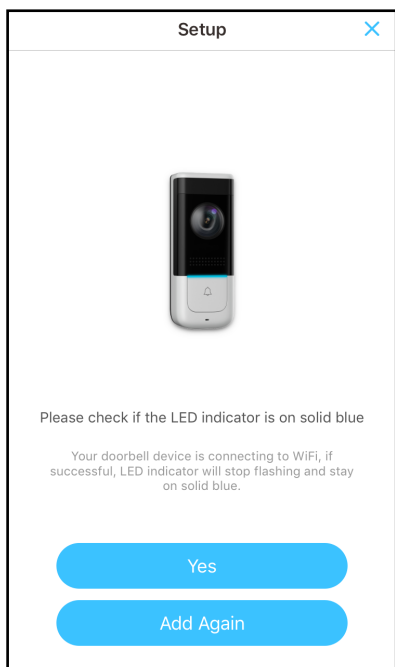


9. Type the SSID password of the Wi-Fi network. If you wish to see the password characters, tap the "eye" icon to the right of the **Password** field. To have the app remember this password, check **Save password**. When finished, tap **Connect** (the LED start flashing).

Important: Be sure the password is typed correctly or the doorbell will not connect to your wireless network. You can always select another network by tapping **Select other network**.



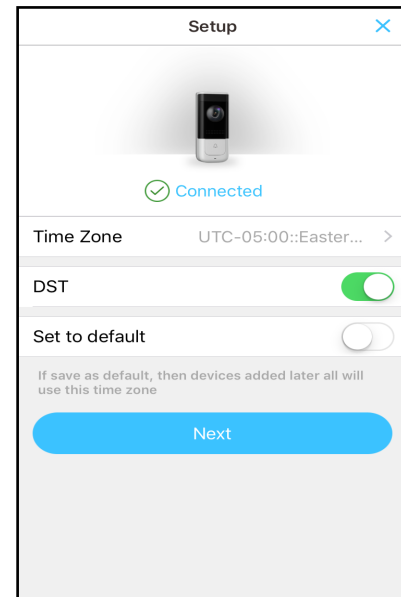
10. Wait for the Wi-Fi connection process to complete (see image below). If the connection is successful, the LED on the face of the doorbell will stop flashing and will turn on solid blue. Tap **Yes** to continue. If the attempted connection is unsuccessful, try again by tapping **Add Again**. **Note:** It may take up to a minute to establish a connection.



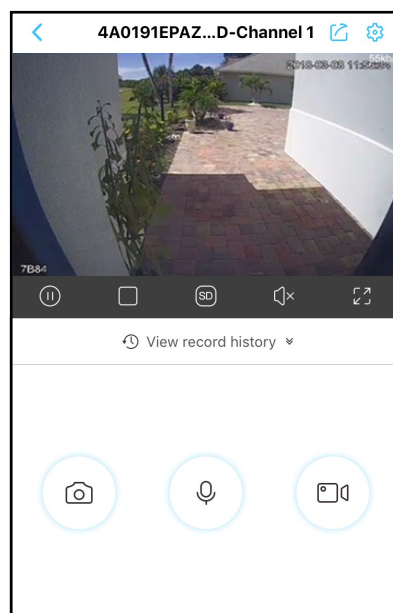
If Doorbell Does Not Connect (LED keeps Flashing)

Check the Wi-Fi signal strength from the doorbell location using the smart device to ensure there is sufficient Wi-Fi signal strength (3 bars or more is recommended). Also verify the Wi-Fi password for the SSID selected. If needed, tap the **Add Again** button to repeat steps 6-11.

11. After the confirmation screen appears (below) indicating a successful Wi-Fi connection, confirm your Time Zone by tapping the arrow located to the right and selecting the from the pull-down list. You can also enable Daylight Saving Time (**DST**). To save these time settings when connecting to future devices, enable **Set to default** and tap **Next**.

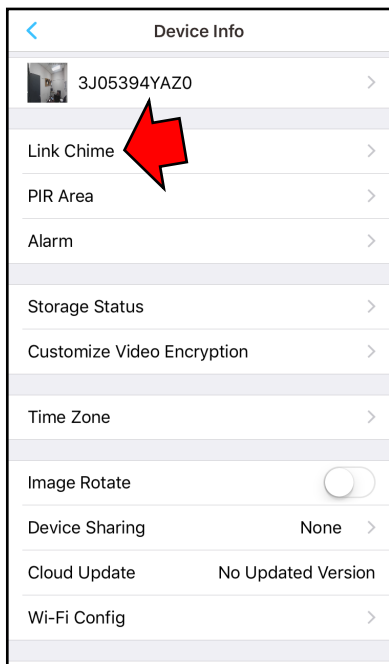


12. Test the system by pressing the "Call Push Button" (see diagram on page 7). Live video feed will appear.

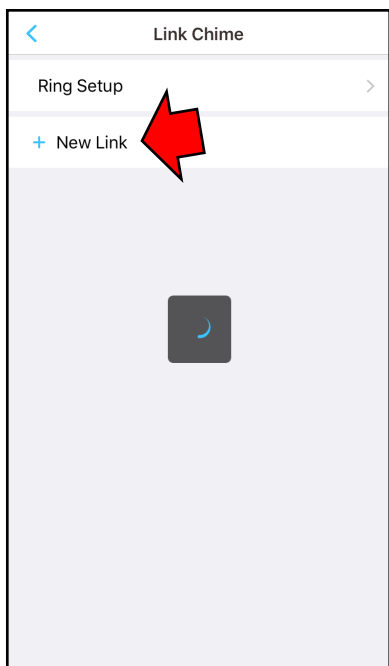


To program your **IBV-DBELL** to trigger a new or existing wired doorbell chime mechanism (mechanical or electronic), proceed as follows:

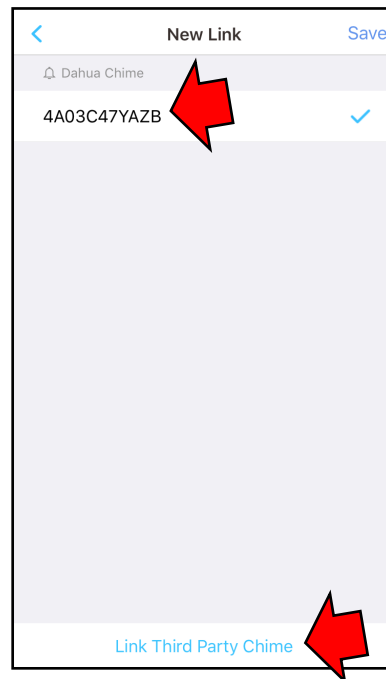
13. In the previous screen, tap the "gear" icon (located at the top right of the screen shown in step 12). When the **Device Info** screen opens, tap **Link Chime**.



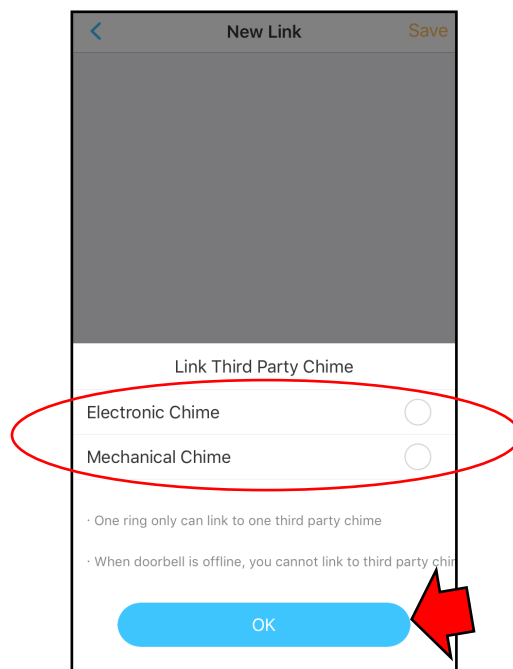
14. Tap **+ New Link**.



15. To link to a wireless **IBV-CHIME**, select it from the list and tap **Save**. **Note:** The **IBV-CHIME** must be enrolled before it will appear in the list (refer to the **IBV-CHIME** User's Guide). If using the existing wired doorbell chime mechanism (mechanical or electronic), tap **Link Third Party Chime** located at the bottom of the screen that appears.



16. Tap to select the type of wired doorbell chime mechanism, either **Electronic Chime** or **Mechanical Chime**, then tap **OK**.



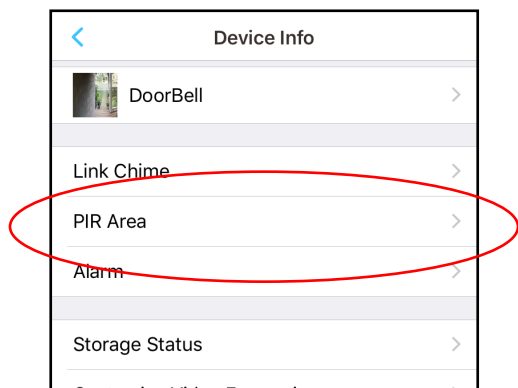
Set Up Motion Detection

Motion Detection allows the app to send notifications and video clips if movement is sensed in a selected area.

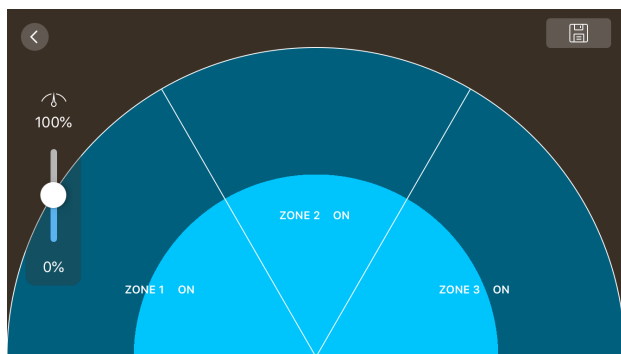
1. In the Device "Home" screen, tap the ">" icon to open the **Device Info** screen.

Note: You can tap the ">" icon or anywhere on the title bar to open this screen.

2. Tap **PIR Area**.



3. In the detection area image, "tap and hold" the "zoom" sliding scale at left to increase or decrease the detection range. Selected zones of sensitivity will turn blue.



You can disable a particular zone by tapping it; tap again to re-enable the zone.

4. When finished, tap the "save" (floppy disk icon) located at the top right to save your settings.

How to Answer a Doorbell

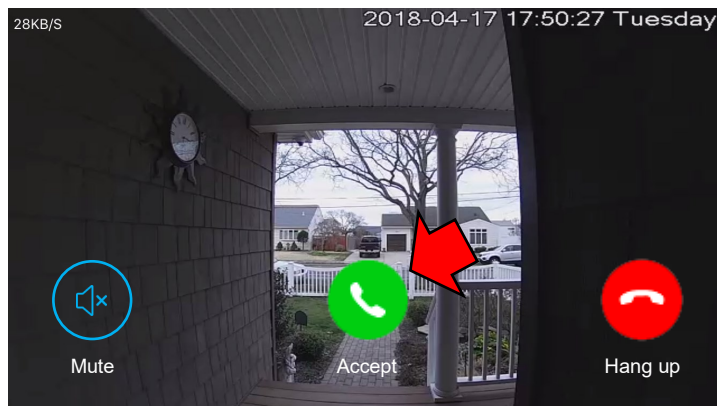
When the doorbell rings, your smart device will receive a notification (see next image, shown at the top of this page).

Tap Accept (green telephone icon) and a live streaming video will appear on your smart device:

How to Program a New Wi-Fi SSID

If you change your Wi-Fi network (for example, you replace your wireless router), and you need to reconnect your doorbell to your new network:

1. In the main **Device** screen that displays all of your

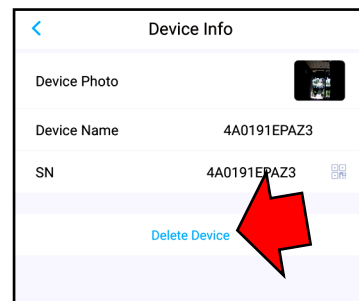


video devices, tap to select the doorbell video thumbnail that indicates "Offline".

2. Tap the **Settings** gear icon to open the **Device Info** screen (shown below).

3. Tap **Delete Device** to remove the doorbell from your iBridgeVideo app.

4. Turn to page 2 and follow steps 3-10 in the section "**Doorbell Enrollment Using the App**" to re-enroll your doorbell.



Format the SD Card

The SD card (not included) is required for local motion detection storage in the iBridge app. To format the card:

1. In the Device "Home" screen, tap the ">" icon to open the **Device Info** screen.

Note: You can tap the ">" icon or anywhere on the title bar to open this screen.

2. Tap **Storage Status**.

3. Tap the blue **Format Storage Device** button.

The SD card will be formatted within a few seconds.

Note: If the message "SD card not found" or "Device storage is 'OFF'", ensure the Micro SD card is installed properly and the IBV-DBELL is running the latest firmware.

Reset to Factory Default Settings

The doorbell MUST be powered before proceeding.

If the doorbell LED is blinking or scrolling:

- Press and hold the **Reset** button until the LED turns on solid (about 15-20 seconds), then release button.

If the doorbell LED is on solid:

- Press and hold the **Reset** button until the LED turns off momentarily and then turns on solid (approximately 15-20 seconds), then release button.

Notes:

1. Listen for a small "pop" from the doorbell speaker that occurs a few seconds after releasing the **Reset** button.

- This "pop" confirms the doorbell is rebooting.
2. If you hear 3 quick beeps after you release the **Reset** button, then you did not hold the button long enough to reset the doorbell (repeat the reset procedure).

Note: Depending on IBV-DBELL version, you may hear "Device is undergoing hardware reset".

Blue LED Status Indications

When the doorbell is powered and operating normally, the blue LED remains on solid. Other LED indications are:

Blue Scrolling	Calling
Blue Solid	During Wi-Fi Enrollment
Blue Flashing	Talking
	No Network Connection

Specifications

Video Compression	H.264
Image Sensor	1/2.9" 2MP
Lens	1.9mm
Angle of View	H: 140°
Day/Night	ICR, 5m
Audio Compression	G.711
Audio Input	Omnidirectional Mic
Audio Output	Built-in Speaker
Bidirectional Talk	Supports Dual-way Bi-directional talk

Operation Mode

Keypad	Single Mechanical Button
Motion Detection	PIR, 5m, H: 120°

Network

Wi-Fi	IEEE802.11b/g/n, 2.4GHz
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General

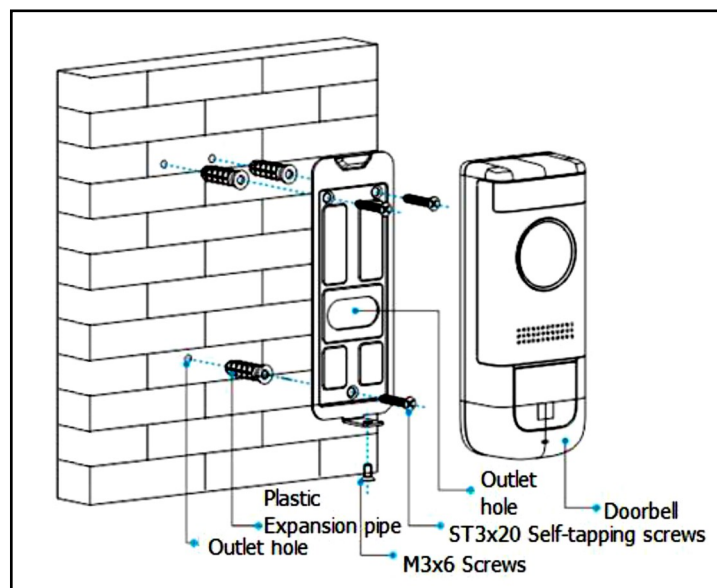
Ingress Protection	IP55
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Memory Slot

Micro SD SDHC 32GB recommended (not included). Maximum size 64GB (IBV-DBELL must have the latest firmware installed)*

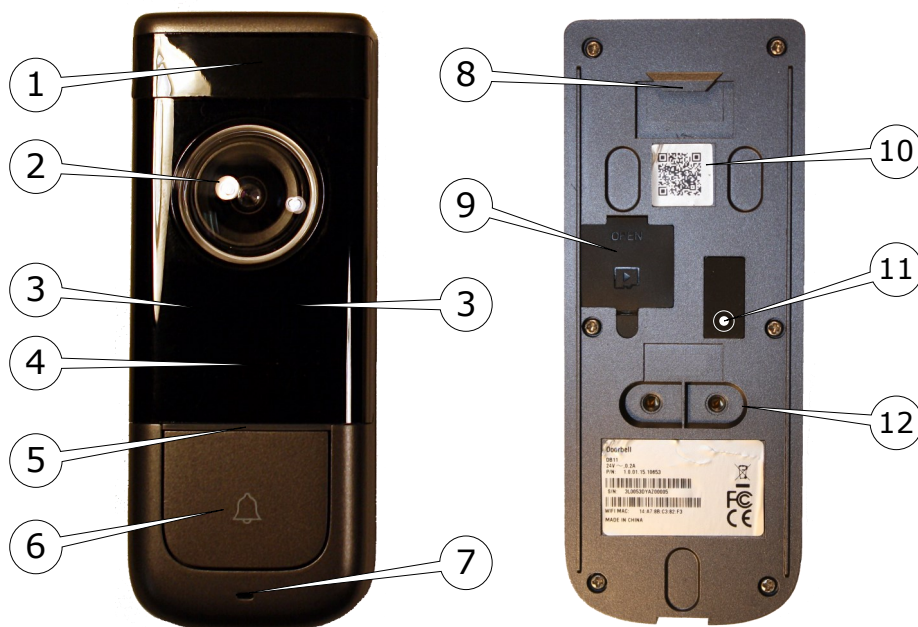
Installation

Material	Plastic
Power Supply	16-24VAC or 12-24VDC
Power Consumption	Standby<3W, Work <5W
Environment Temperature	-20°C ~ 50°C (-4°F ~ 122°F)
Dimensions	119.0mm×47.0mm×29.0mm (4.7 in. x 1.9 in. x 1.1 in.)
Weight	200g (7.1 oz.)
Working Humidity	10% ~ 95%RH



Installation Exploded View

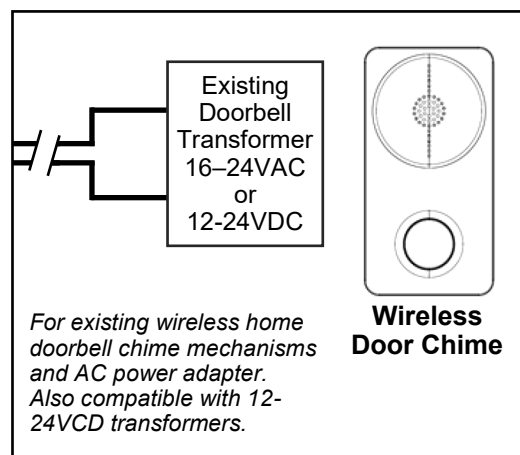
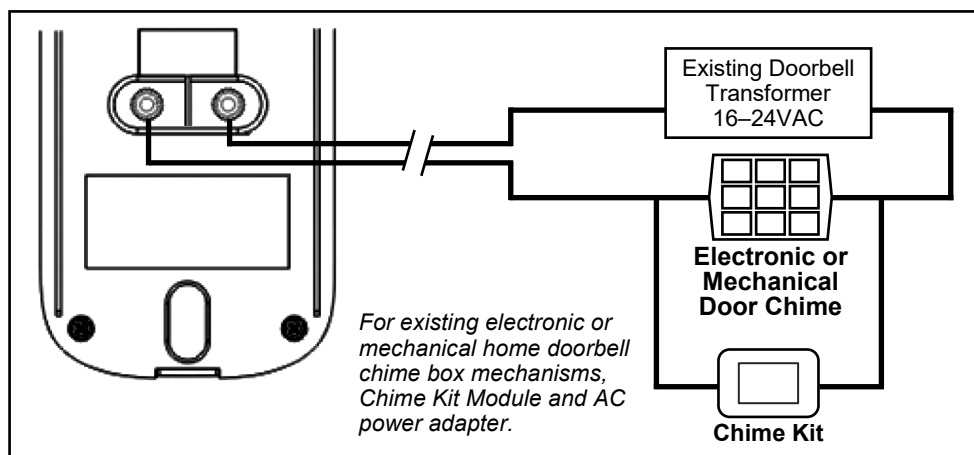
IBV-DBELL Parts



1. PIR
2. Camera Lens
3. Infrared Light (2)
4. Loudspeaker
5. Indicator LED
6. Call Push Button
7. Microphone
8. "Protruding tab" for mounting
9. Micro SD Card Slot*
10. QR Code
11. Reset Button
12. Screw Terminals for Power Input

*SD card not included; SD card required for local motion detection storage in the iBridge app.

WIRING DIAGRAMS



NAPCO LIMITED WARRANTY

NAPCO SECURITY TECHNOLOGIES, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for *twelve months* following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person

purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following: criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/ system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions 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.

FCC Statement

- 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.
- The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes, or modifications not expressly approved the party responsible for compliance could void the users authority to the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.
- (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual: **NOTE:** This 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 help.
- RF exposure warning
This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons 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.