# EZ-Bell Doorbell Camera User Guide

1. Introduction

Next generation video doorbell camera - EZ-Bell is your multifunctional doorkeeper, enabling you to receive doorbell alarm and home security event alarm, to make calls with visitors, to view real time streaming or motion trigger video and playback video.

2. Included materials

- Doorbell Camera*1
- Wall mounting bracket*1
- Angle correction plate*1
- Wall screw*2
- Doorbell fixing screw*3
- Expansive rubber sleeve*2

3. Product Appearance
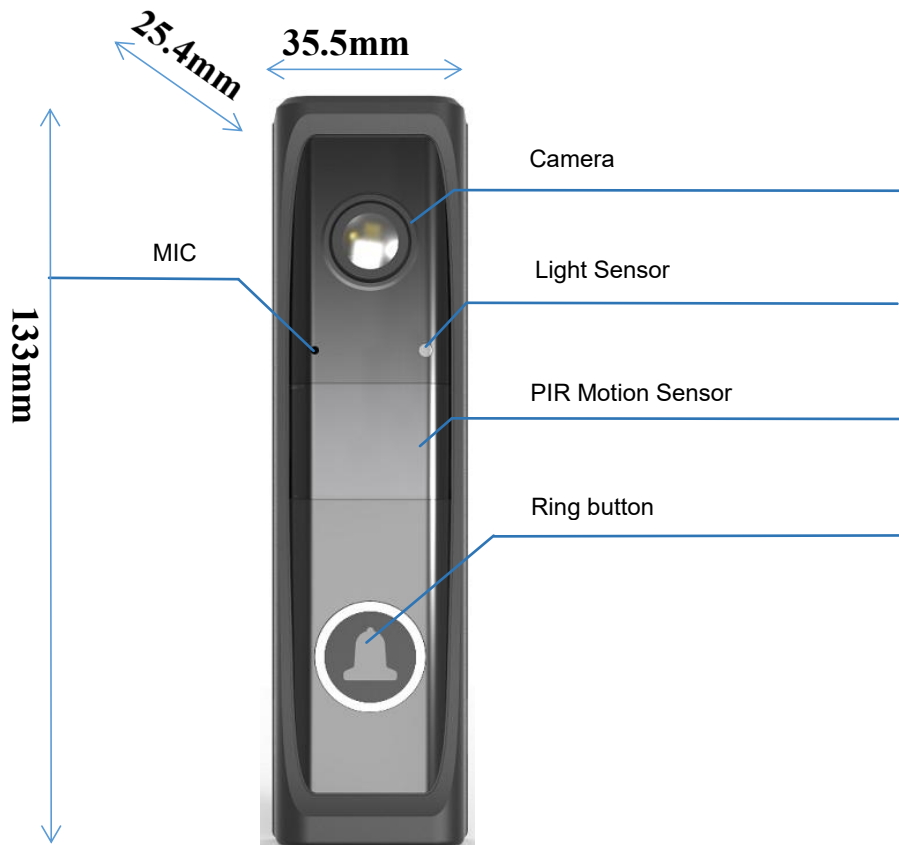
4. Product Features

- Live view streaming via Mobile APP or Security Panel.
- Two-way Audio through Mobile APP or Security Panel.
- Security RF included. Connecting the complete ecosystem: Panel, Sensor, Doorbell.
- Expansive FOV 202(H)*119(V).
- Full HD 1920 x 1080 Video resolution.
- 2T2R Dual band 2.4GHZ/5GHZ WIFI for improved WIFI range.
- On-device AI. Instant analysis of each event and accurate reduction of false triggers.
- Real time communication to anyone who approaches your door via 2-way Audio.
- Pre-record supported. Capture all actions in video clips to be stored at Amazon server.
- As a sensor to Panel, doorbell camera can send outdoor motion events to Panel.
- Compatible with the existing doorbell transformers (10-30VAC,10VA)
- Compatible with Mechanical and Digital Chimes.

5. Product Specification

Model Name: EZ-Bell V1 (XDC01)	**Video compression format** H.264+ AAC/PCM For Video Clip and Video streaming
Memory: 2GBit Embedded DDR3	**Network protocol** P2P Video streaming/ Camera configuration HTTPS and OTA support
Image sensor: 1/2.7" FHD (1080P) sensor	**Night Vision** B&W Night Vision/850nm @16ft
Streaming resolution: HD(720P)/FHD(1080P)	**LED** RGB color status LED
Video framerate Variable framerate 10-15fps	**Chime** Security Panel (XP02) as Doorbell Chime AC Mechanical Chime AC Digital Chime (Works with DDA board)
OS: Dual OS (RTOS + Linux 4.9)	**Storage:** Local Storage: N/A (Reserved MicroSD Socket) Cloud Storage: Amazon KVS Video storage
Field of View: 202(H)*119(V)	**Power** 10-30VAC, 10 VA, OR 12 VDC 0.5A Battery: Built-in 450mAh battery
WIFI/ SubG RF radio WIFI: IEEE 802.11 a/b/g/n/ac 2T2R 2.4/5GHz dual band SubG RF: 433MHz	**Operation Temperature** Product working temperature: -10°C ~ 45°C
Motion Detect Motion sensor/130° @ 8FT AI Human detection algorithm to reduce false trigger Support pre-recording before Motion trigger	**Waterproof** IPX4 **Weight** 94g 110g (with mounting plate)
Video /Audio Streaming Full-duplex two way call	**Certification** FCC/IC

6. Requirement

- Power

10-30VAC, 10VA or 12VDC, 0.5 to 1.0A wired to an in home mechanical or digital doorbell chime. Note: A Digital Doorbell Adapter must be installed if a digital doorbell chime is present. **WARNING**: An in-line resistor (10 Ohm, 10 Watt) is required when installing the doorbell camera without a wired, in-home doorbell chime. This is typically done when testing the doorbell or performing a demonstration. Failure to install a resistor when a chime is not present may result in damage to the doorbell camera.

- Chime
  - ➢ Security Panel (XP02) as Chime - XP02 Panel can be a chime of the EZ-Bell doorbell.
  - ➢ Mechanical Chime - If the chime has metal bars and a striker pin, it is mechanical and will work without additional hardware.
  - ➢ Digital Chime - If the chime has a speaker that plays a tone when pressed, it is digital and will require the installation of the Digital Doorbell Adapter and the enabling of the digital doorbell setting in the app to function properly.
  - ➢ Tube Chime - If the chime has a series of tubular bells, it is a tube chime and is incompatible with the doorbell camera.
  - ➢ Intercom System - If the doorbell button fixture includes a speaker, it is an intercom system and is incompatible with the doorbell camera.
  - ➢ No Chime - If there is no chime in the system, the customer will only receive alerts on their phone and a resistor (10 Ohm 10 Watt) must be used in-line with the doorbell camera.

- WiFi

A Wi-Fi Internet upload speed of at least 1.5 Mbps is required at the location where the doorbell camera is installed.

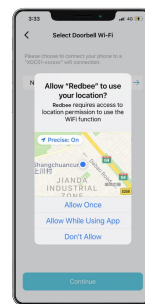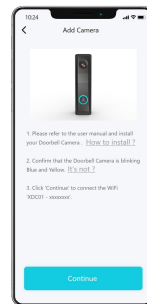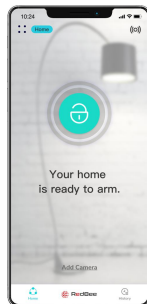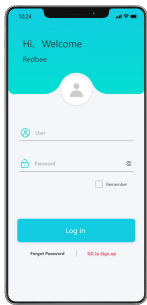Note: In Canada when using 5 GHz on band 1, the device is intended for indoor use only.

7. Hardware Installation

Angle correction plate **Wall mounting bracket** **Doorbell camera**

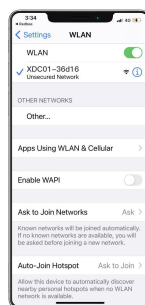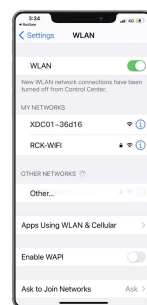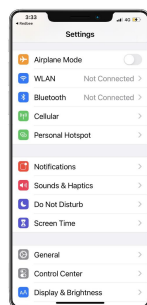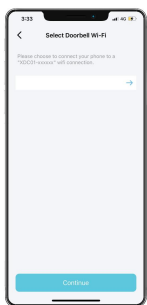**Expansive rubber sleeves** **Wall screws** **Doorbell fixing screws**
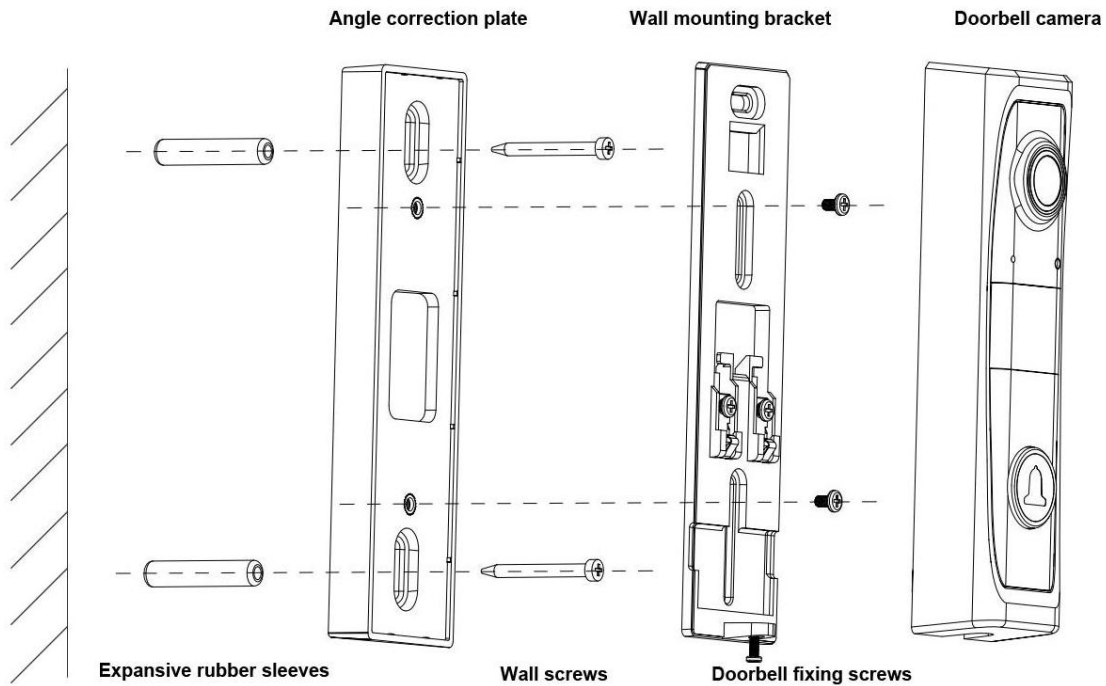
8. APP Instruction
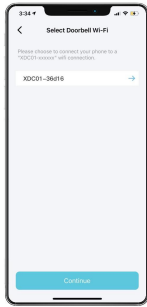
- 8.1 – Camera Pairing and Provision

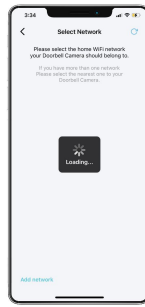(1) Login Redbee App   (2) Click "Add camera"   (3) Wait LED Orange   4) Allow positioning

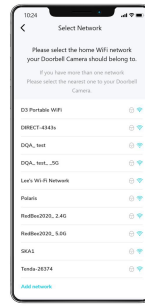(5) Click blue arrow   (6) Click WLAN in phone Settings   (7) Scan for XDC01-xxxxx   (8) Choose doorbell
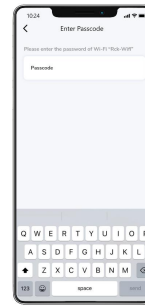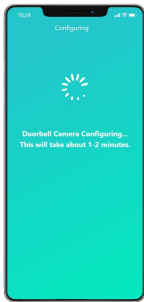
(9) Continue in App   (10) Scan for WiFi   (11) Choose WiFi for Doorbell   (12) Enter WiFi password
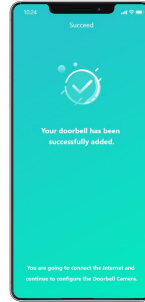
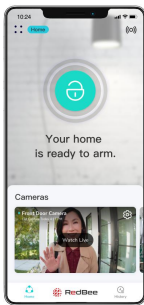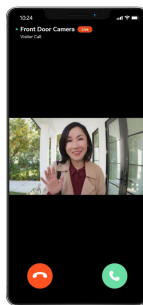(13) Connecting to WiFi   (14) Set Doorbell name   (15) Doorbell is ready to use
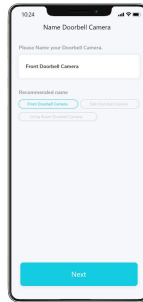
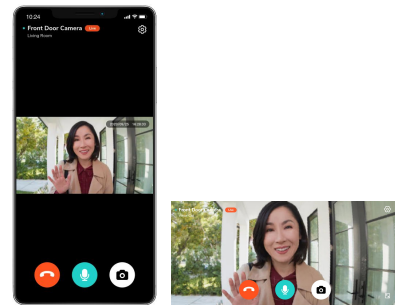- 8.2 – Live view streaming and 2-way talk

(1) Click "watch live"

(2) Call-out or pick-up call:
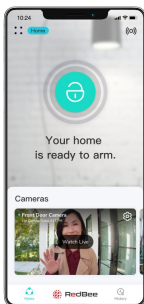   Click dial green button.

(3) Hangup: Click red hangup icon
     Push talk: Press blue mic icon;
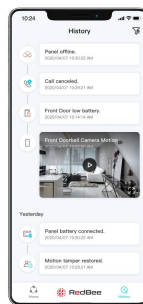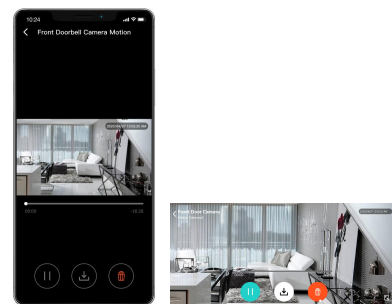   Snapshot: Click grey camera icon.

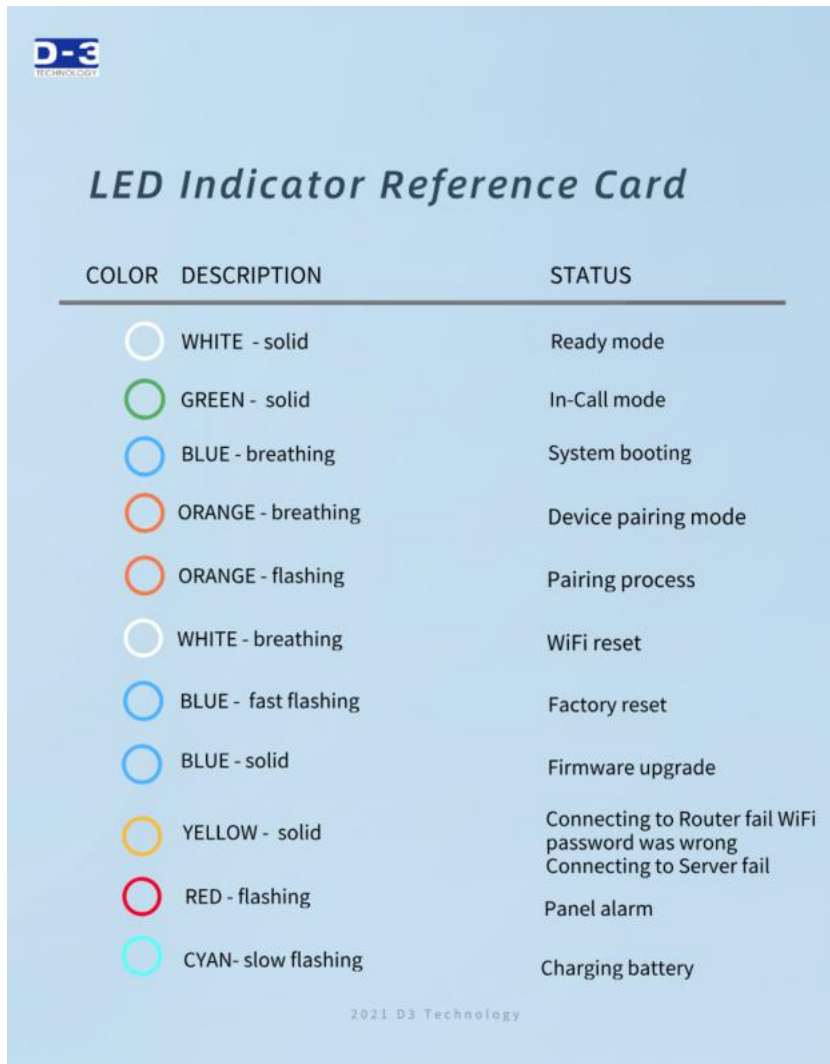- 8.3 – Video Clip Online Playback

(1) Click "History" at right foot   (2) Select event to view   (3) View online playback in full screen

9. Doorbell LED Pattern

LED Indicator Reference Card

COLOR	DESCRIPTION	STATUS
WHITE - solid		Ready mode
GREEN - solid		In-Call mode
BLUE - breathing		System booting
ORANGE - breathing		Device pairing mode
ORANGE - flashing		Pairing process
WHITE - breathing		WiFi reset
BLUE - fast flashing		Factory reset
BLUE - solid		Firmware upgrade
YELLOW - solid		Connecting to Router fail WiFi password was wrong Connecting to Server fail
RED - flashing		Panel alarm
CYAN- slow flashing		Charging battery

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Warning：
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 warning:
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: 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 correctthe 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device complies with Industry Canada licence-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.

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 radio électrique subi, mêmesi le brouillage est susceptible d'encompromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

The distance between user and products should be no less than 20cm.