

GBF IP Doorbell (4th Gen)

USER MANUAL



GBF™

WELCOME

Congratulations on purchasing the GBF PL964 Series of IP Door Station with AI motion detections. Our factory engineers were the first to enable multiple security camera monitoring through smart handheld devices and now have used that expertise to bring you a full-featured IP Video Doorbell system that allows you to monitor and interact with visitors at your door, from anywhere your mobile device has a WiFi or data connection. Please read these instructions carefully and follow all of the required steps during setup to ensure your enjoyment of a fully functional IP Doorbell system in minutes. You may connect the PL964 Series of IP Doorbells to your LAN (Local Area Network) through a Wired (Ethernet Cable) connection. As with any video and audio streaming device, wired connections are preferred over WiFi, but you might use wifi access station or wifi bridge to bring robust and reliable internet connection to this device.

PACKAGE CONTENTS

- (1) GBF PL964PM/M IP Door Station**
- (1) Metal Back Box**
- (1) 12VDC Power Supply**
- (1) Relay/Push-to-Exit Wiring Harness**
- (1) Bell Connector Wire Set**
- (2) Varistors**
- (4) Screws with Anchors**
- (2) Security Machine Screws**
- (1) Security Screw Allen Wrench**
- (1) Installation and Instruction Manual**

1. Installation

***NOTE:** It may be more convenient to perform the initial configuration of the IP Doorbell with it temporarily connected to power nearby your home internet router and a computer. This way testing and operation can be verified before the unit is mounted permanently.

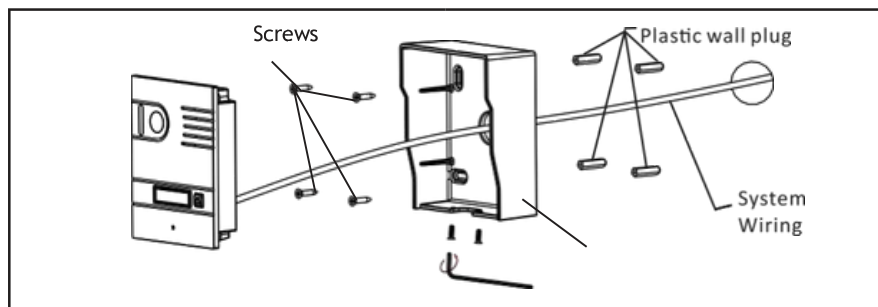
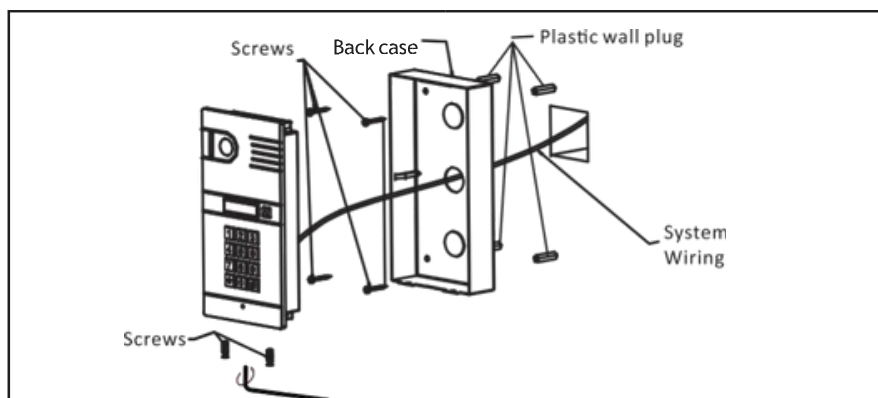
-Location: Choose a location for your new IP Doorbell, taking into consideration sightlines, shadows, and excessive back - ground lighting for the camera. You must also consider proximity to AC power and the ability to run wiring for additional optional accessories. Optimal mounting height would be approximately

60" (150cm) up from the surface that the caller is standing on. Consider drilling a 1¼" diameter or larger hole into the wall behind the IP Doorbell to allow for the concealment of the Wi-Fi antenna (if used) within the wall.

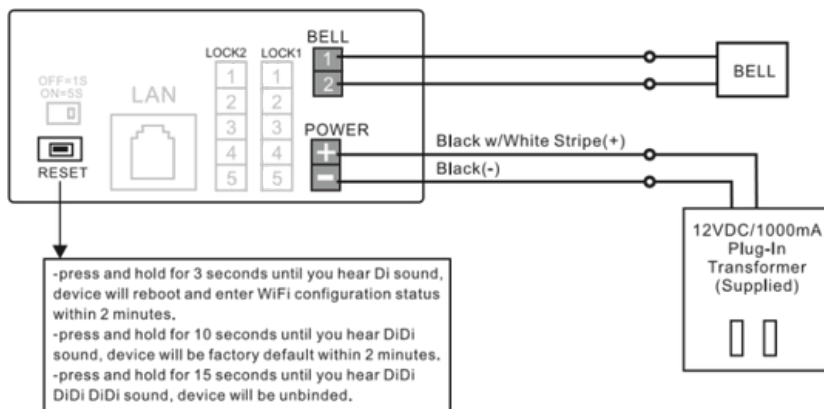
-Back Box Mounting: Feed the power supply wiring, wiring harness(s), and the Wi-Fi Antenna cable or the RJ-45 cable through the hole from the back side of the back box. Use the four screws (and anchors, if required) supplied to mount the back box to the wall in the desired location.

-Set the desired unlock duration time using the switch on the back of the IP Doorbell, and then connect the wiring harness and other connections to the back of the IP Doorbell. Gently feed excess wiring through the hole in the back box into the wall cavity, and place the IP Doorbell into the back box (top first).

-Secure the IP Doorbell into the back box at the bottom leading edge using the two supplied Hex-Head screws and Allen key.

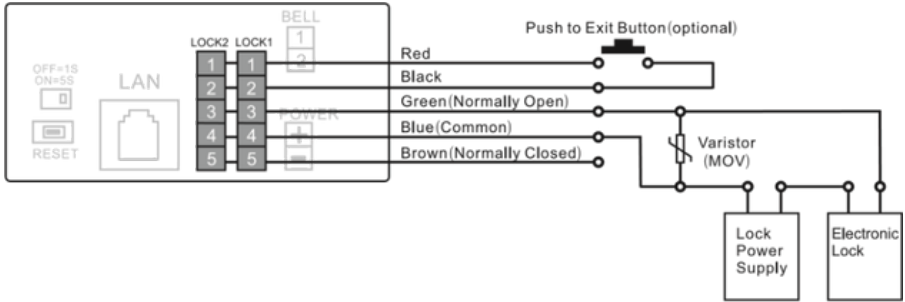


Wiring Diagram for Power Supply Connections and Connection to Existing Door Chime (Optional)



*PL964M/PM Lock and Bell Relays are Rated Maximum 3Amps at 250VAC or 30VDC

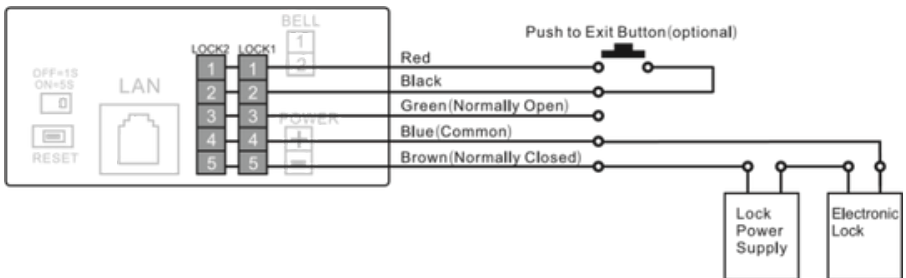
Wiring Diagram for Normally Open Circuit (e.g. Electronic Door Strike or Deadbolt)



*PL964M/PM Lock and Bell Relays are Rated Maximum 3 Amps at 250VAC or 30VDC

Please be advised that LOCK1 could be triggered by APP and Access Codes, but LOCK2 could be triggered ONLY by APP, not Access Codes. If you only use this system for one Door, please connect LOCK1 for your application.

Wiring Diagram for Normally Closed Circuit (e.g. Electronic Mag Lock)



* PL964M/PM Lock and Bell Relays are Rated Maximum 3 Amps at 250VAC or 30VDC
Please use LOCK1 for your gate control connection if this system is for controlling one door/ gate

2. Configuration Preparations

Begin by performing a factory reset of the settings in your IP door station. To reset the device to factory default setting, follow these steps:

1. Connect your device directly to your internet Router with an ethernet cable.
2. This device has a Poe built-in, you could directly power this device with ethernet cable through POE switch. Or use the power adapter in the package to power this device. It requires 12V DC 1A power supply to work properly.
3. With 30 seconds, press and hold the ‘RESET’ button on the back of the device for 15 seconds until you will hear 3 beeps sound. Then release the reset button.

***NOTE: Performing a factory reset erases settings stored during the configuration process. Do not perform a factory reset after you have configured the IP door station unless absolutely necessary.**

Downloading the APP

To configure and receive calls from the door station you need to download the “Doordeer Pro” APP. Free downloading are available on the Google Play Store (Android) and the Apple APP store (IOS).

Note:

- The **DOORDEER PRO** APP is free to use.
- Please keep the **Doordeer Pro** APP updated.
- The Applications is subject to change without notice.

Preparing the APP to be used

1. Make sure your smartphone is connected to your wifi network or cellular data.
2. Open your **Doordeer Pro** APP.
3. Create an account by Clicking on the “Sign Up”.

Login

20260317@gmail.com

Password

SIGNUP Forgot Password

Login

***NOTE: Every mobile device requires a separate APP account for accessing this smart IP door station.**

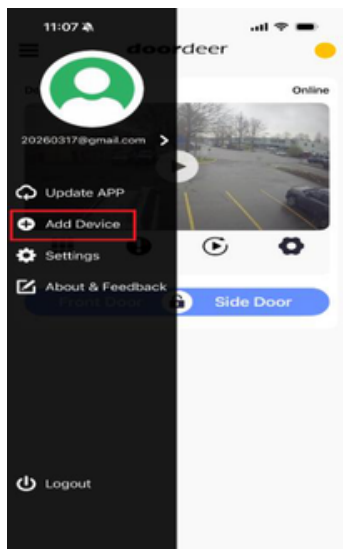
4. Enter a username (email address is required), password, password confirmation.
5. Read the terms and privacy agreement, then click on the checkbox to agree.
6. Click on “Sign up” button. If the provided information is valid and the username is new and not already existed in the system, a popup message will appear on the screen with ‘Registration Success’, then click on ‘OK’.
7. You will be redirected to the login screen.
8. Click on ‘Login’. Then you could login in your APP account and can see your home ‘Doorbell’ Screen.

To Proceed with a wired (RJ45) installation, connect the RJ45 cable between your internet router and the IP door station, then complete the following steps:

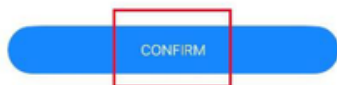
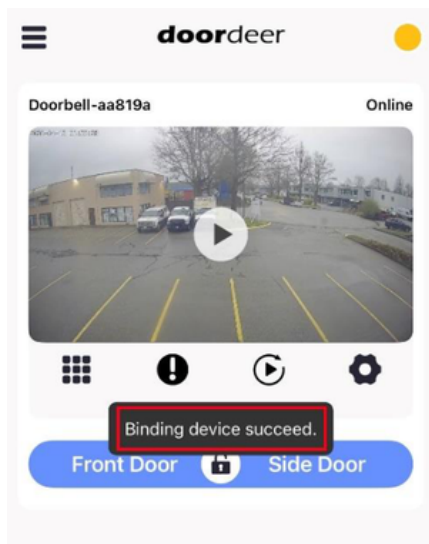
3. Adding a hardwired IP Door Station

You can add a hardwired IP door station by using the following steps:

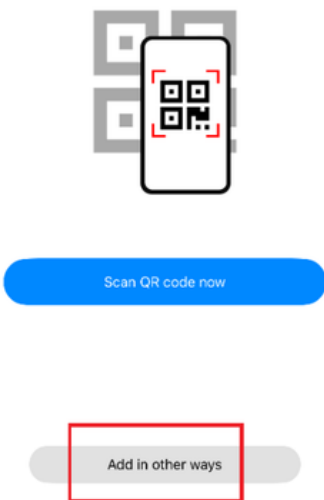
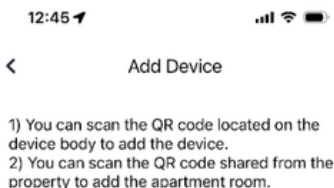
1. Connect your mobile device to the Wi-Fi/LAN network which is the same network with this IP door station.
2. Click the top left corner three black bars, the menu page is shown up. Click 'Add Device', then select 'Scan QR code now'. There is one QR code label on the back of the device. The device GID no. is under this QR code.



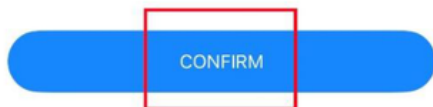
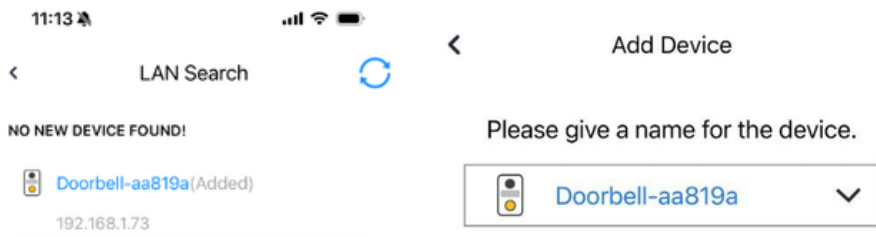
3. The new Door Station name will be shown on the device box.
- You could change your Doorbell name to “Front Gate” or other names. Click the ‘CONFIRM’ and save your changes. Then your Door Station will be added into your APP account successfully.



4. You could also add your door station by LAN search. Then APP will automatically start to search the new device for you.

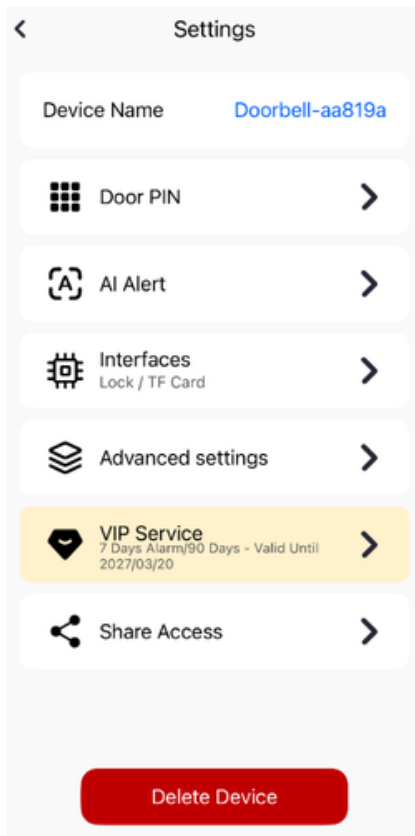
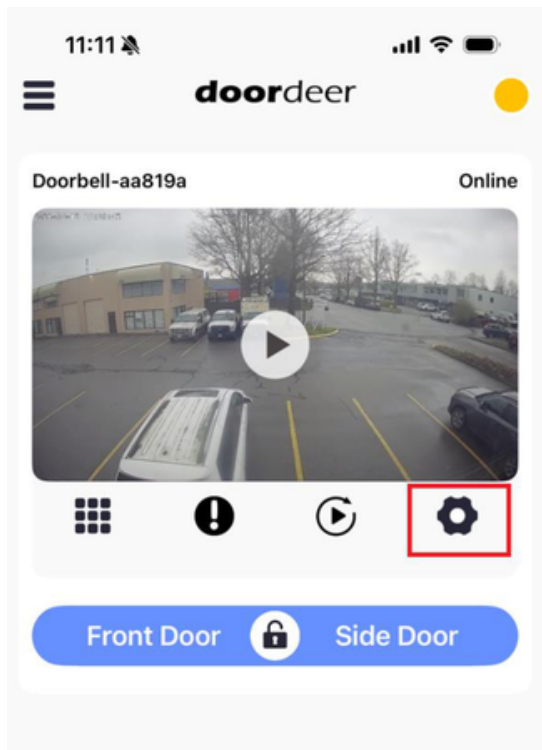


5. The new device will be shown on the device list. Click the new device and give your new device a name, then click 'CONFIRM' to add your device successfully on your Doordeer Pro APP.



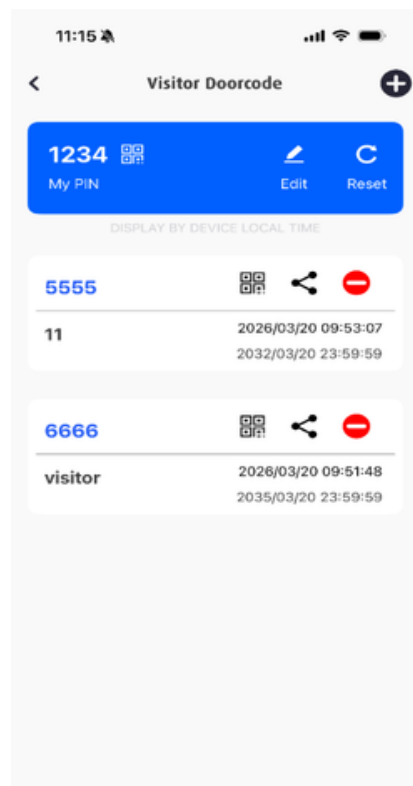
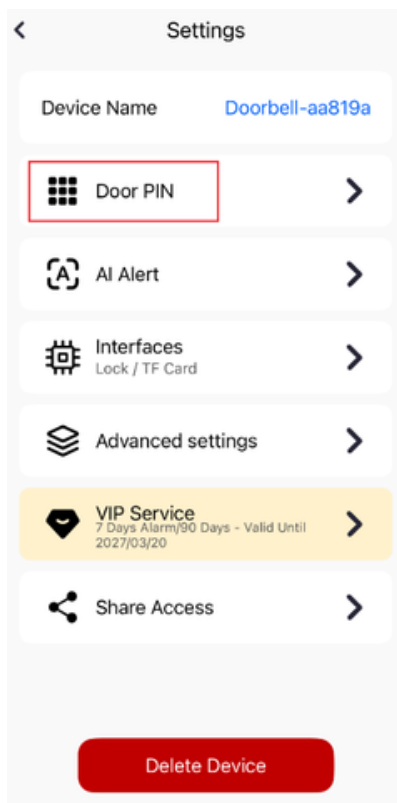
4 SETTINGS:

Inside the APP, click 'Setting' symbol on the device window. The 'Settings' page which includes: Device Name, Door PIN, AI Alert, Interfaces (Lock/TF card), Advanced Settings, VIP Service, and Share Access..



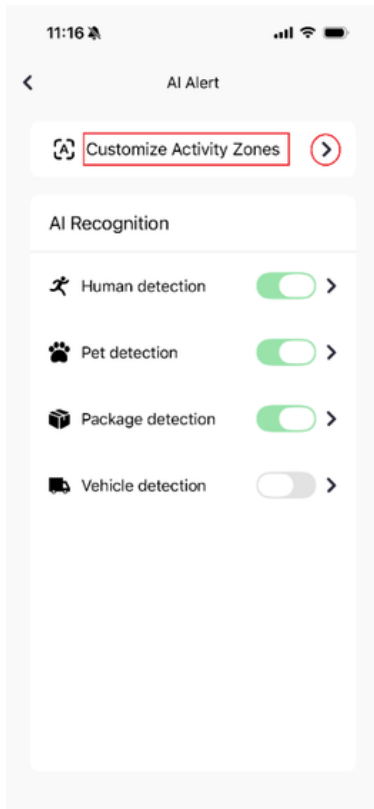
4.1 Device Name: Click Device Name box for changing your device name if necessary.

4.2 Door PIN: Click Door PIN to access Doorcode Page to customize your own access codes.



4.3 AI Alert: Click AI Alert to access AI motion detection page. Click “Customize Activity Zones for motion detection area, Gray area is for motion detection area, clear area is non motion detection area.

4 Different Motion Detections including: Human detection, Pet detection, Package detection and Vehicle detection etc..

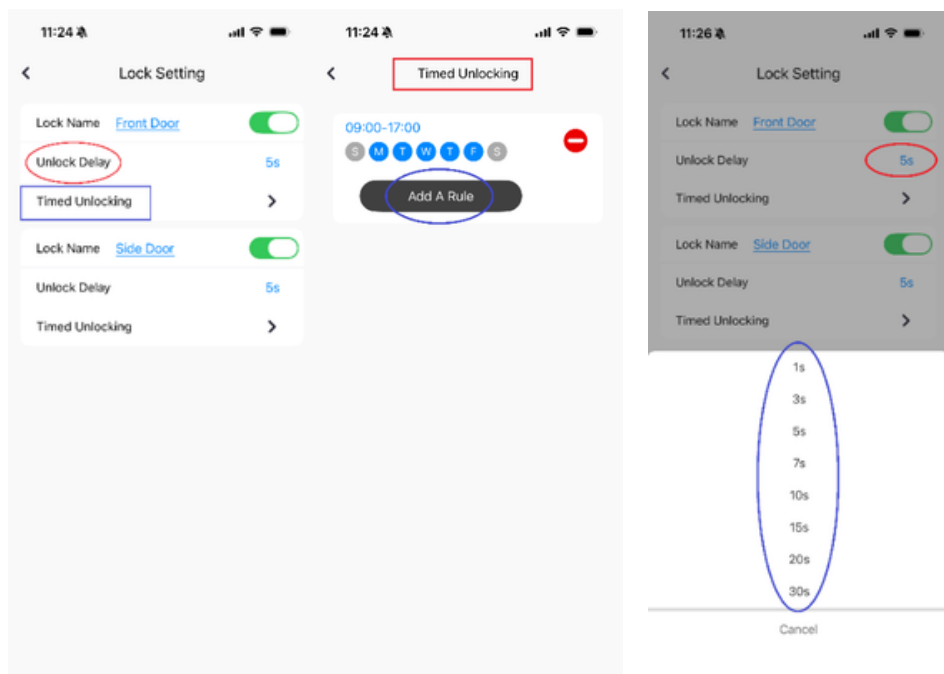


4.4 Interfaces (Lock/TF card):

You can change the Lock Name to your own name.

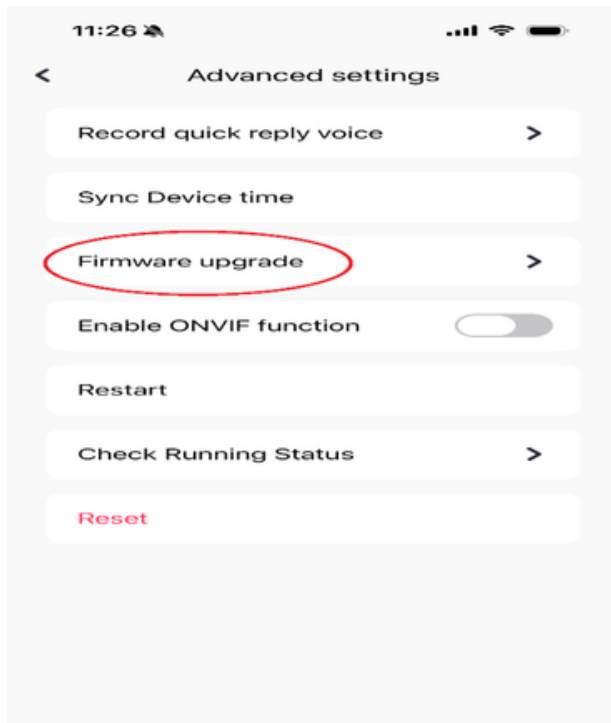
You can remotely change your unlocking delay time from 1s to 30s.

You can turn on “Timed Unlocking” feature to program your door/gate opening or closing time..



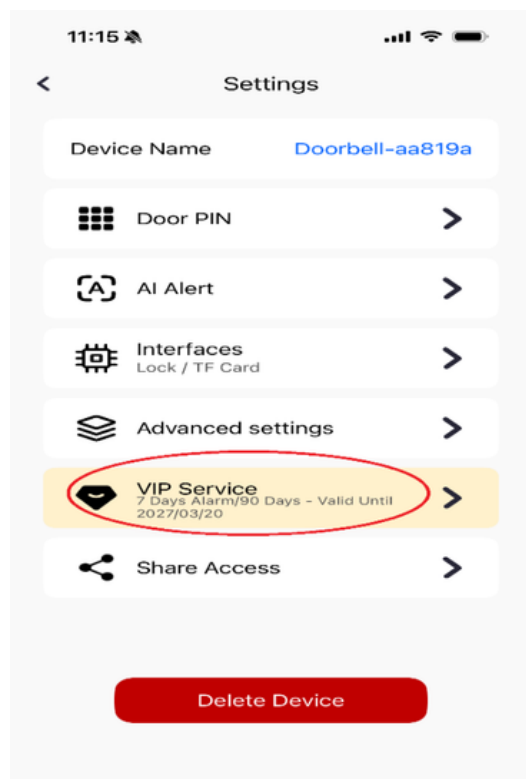
4.5 Advanced Settings:

- Record quick reply voice: leave your own message to your guest if you are not available.
- Sync Device Time
- Firmware upgrade for your system
- Enable ONVIF function for working with your NVR security system for 24/7 recording.
- Restart your system remotely.
- Checking Running Status for your system.
- Reset your system to factory default settings.



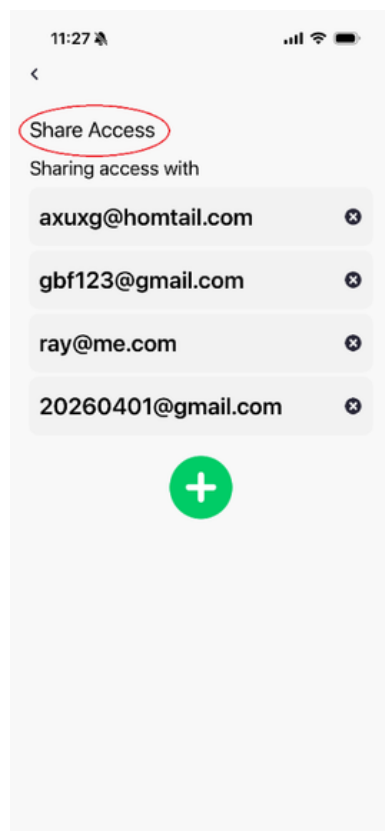
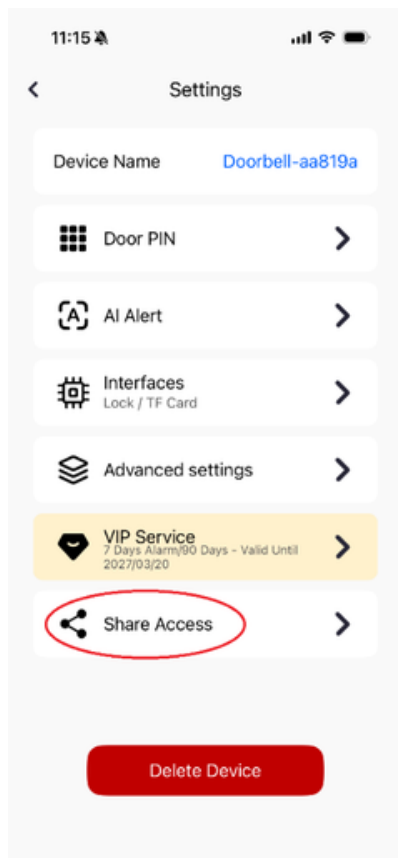
4.6 VIP Service / Cloud Subscription for Premium Features including:

- 7 Day Event History
- Unlimited temporary access codes
- Timed Unlock Hold



4.7 Share Access:

Click + icon and add the person's email address you want to share with. Please make sure the person use the same email address to sign up the Doordeer Pro APP. You could share the device access with multiple persons. And you could revoke the share access anytime from your APP account as well.



Appendix A: Installation Tips

WiFi

WiFi Range - We are frequently asked what the WiFi range is on our products. Variables such as antenna placement, the composition of obstacles between the IP Doorbell WiFi antenna and your WAP (Wireless Access Point), and WiFi 'Pollution' all can negatively affect your WiFi range. With these in mind, here are some recommendations;

Antenna Placement - One of the advantages of the GBF IP Doorbell is the fact it has an external high-gain antenna (instead of the small wire antennas designed to fit within a plastic chassis). Mount the antenna vertically (it can be upside down as well) making sure that there is not any vertical-oriented metal *between* the antenna and your WAP (e.g. mounted on gate post side opposite of your router's line-of-site).

Obstacle Composition - The composition of the walls within your home will affect the overall range of your IP Doorbell. The following examples will negatively affect your WiFi range if between the IP Doorbell antenna and WAP in your setup;

- aluminum siding or foil insulation
- stucco walls (wire mesh bonding the scratch coat)
- in-floor heating (electric and hot water)
- window solar treatments, metallic blinds, and mirrors

WiFi 'Pollution' - We have customers living in the city with difficulty getting good WiFi just 25' from their router, whereas other customers living on farms who have excellent WiFi results at distances over 200'! This is typically a symptom of WiFi 'Pollution'. The most common sources of WiFi 'Pollution' in the 2.4GHz range WiFi are neighboring WiFi access points and some electrical appliances.

A simple way to test the WiFi strength between your IP Doorbell and WAP during installation is to mount the IP Doorbell and antenna, and then, using your mobile phone, observe the WiFi strength of the IP Doorbell 'Hotpot' (SSID looks like cctvp2p-xxxxxxxxxx) while you are standing beside the intended WAP. Adjust the antenna orientation to achieve the highest observed signal near the WAP.

Weatherproofing

The GBF 964 Series carry an IP65 (Ingress Protection) rating, meaning that it is sufficiently protected from damage by dust, water, and human contact. This also means that your IP Doorbell is protected from low pressure jets of water (e.g. wind driven rain). Our design allows any water that may have found its way in to the IP Doorbell device to just as easily drain away and evaporate. The front panel of your IP Doorbell is waterproof, and the circuitry inside is coated to prevent water damage. Therefore...

Do Not Try to Make a Waterproof Seal Using Silicone or Other Sealants!

This will only result in a gooey mess, frustration, and the possibility of trapping water that could create issues. This is our installation recommendation;

- Before installing the backbox, obtain some Rubber Foam Weather Stripping tape (closed cell) and apply some strips to the back side of the backbox in the dark areas shown in the illustration. For mounting to rougher surfaces, use stacked pieces to layer the tape to build up the thickness where required to form an effective seal when the tape is sandwiched behind the backbox and the mounting surface. Run your mounting screws through the tape. The bottom edge is not sealed to allow any incidental water to simply drain out. There, much less mess!

Before Seal...



After Seal...



Wiring

Wire Connectors: As there is limited room within the IP Doorbell casing for wires, it is suggested to use gel-filled “B” Connector wire splices (blue-beans). Not only are these connectors thin, the dielectric gel inside them prevents your connections from experiencing corrosion issues, and they can be crimped with standard pliers!

Poor Man’s POE: If the length of a hardwired cable run is not excessively long, you could also use the 'poor man's POE' by removing (or cutting) the unused blue and brown wire pairs (assuming the Cat5e cable is terminated T568B) at each end of the Cat5E cable and use them as an extension to leads for the power supply included with the IP Doorbell (double up the wires for each polarity of the power supply, then the current is low enough not to cause too much voltage drop). Be sure to observe the correct polarity for the power if you are extending the power supply lead. This also makes for less clutter at the IP Doorbell end of the installation.

Ethernet Cable Length Limits: The theoretical cable length limit for ethernet cables is about 100 Meters (328 Feet). This is the same for both Cat5e and Cat6, but does require that the conductors are pure copper and not ccs (copper clad steel or aluminum) or similar, as is found in bargain priced cable. This maximum length, however, is ‘renewed’ after each ‘active’ (powered) ethernet device you place between cable lengths. An example of an active device is a POE extender, and an economical "extender" alternative can be to use a standard ethernet switch in a weatherproof environment.

Device Offline Issue:

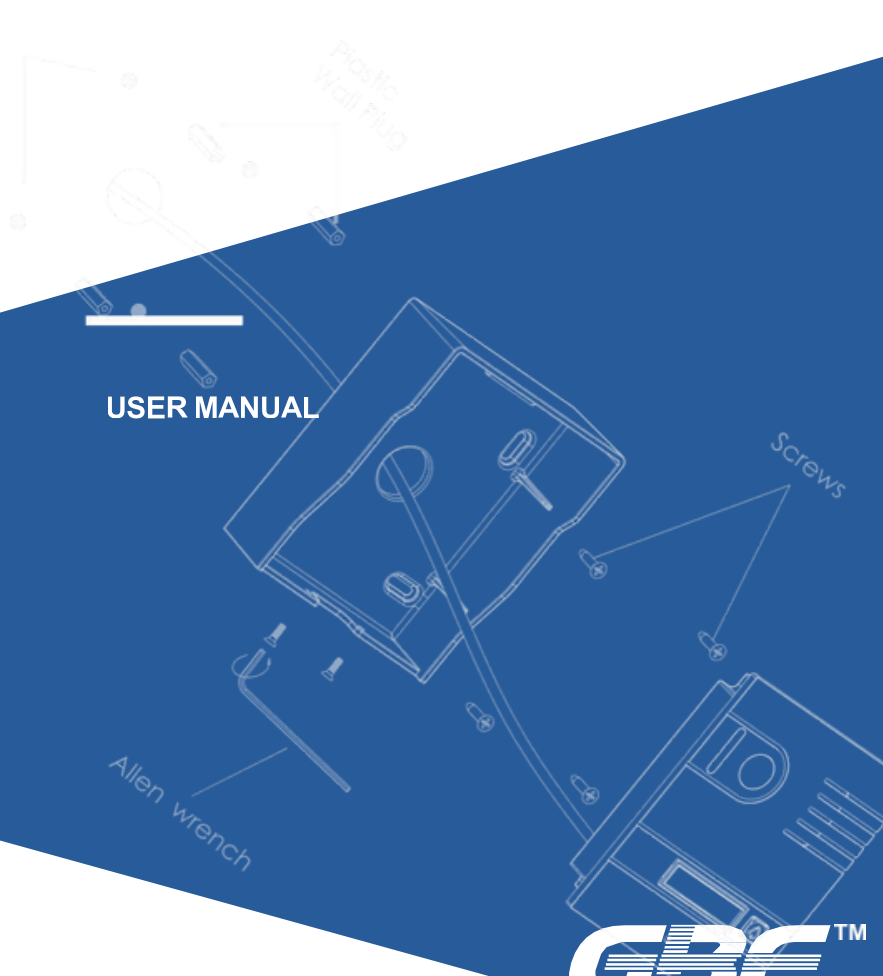
If the connection cable is more than 200 ft, it is possible that the device might be shown offline due to internet variation. You might try to use one internet switch directly connect with device to see that will solve that offline issue.

Internet firewall is other factor which might cause the device offline.

Doordeer system uses the following ports which requires to be open:

TCP : 80 · 443 · 4110 · 20000-65000

UDP : 28678



Plastic Wall Plug

USER MANUAL

Screws

Allen wrench

GBFTM

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Tech Support: 604-278-6896 or 604-285-8721
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