

Holes in  
the wall

Plastic  
Wall Plug

**GBF**

# WiFi IP Doorbell

**USER MANUAL**

Screws

Allen wrench

**GBF**<sup>TM</sup>

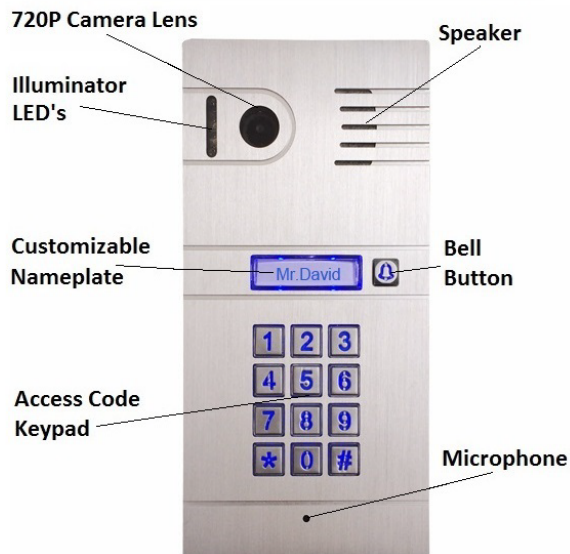
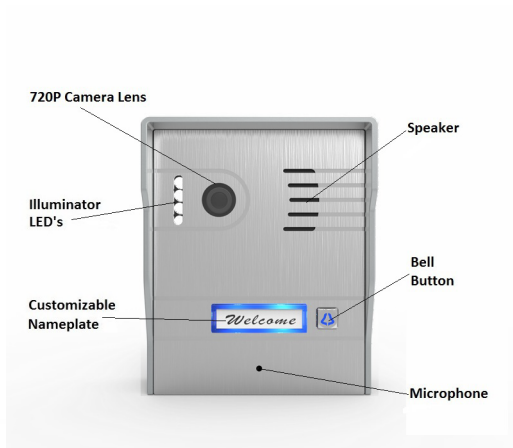
# WELCOME

Congratulations on purchasing the GBF PL960 Series of IP Doorbells. 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 Wi-Fi 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 PL960 Series of IP Doorbells to your LAN (Local Area Network) either through a Wireless (Wi-Fi) connection or a Wired (Ethernet Cable) connection. As with any video and audio streaming device, wired connections are preferred over Wi-Fi, but the convenience of not requiring wires from your IP Doorbell location to your router may be the determining factor in your installation.

Notes: GBF IP doorbell system only works with 2.4G hz WiFi, not 5G hz WiFi.

# CONTENTS

- (1) GBF PL960M/PM IP Doorbell
- (1) Metal Back Box
- (1) External Wi-Fi Antenna with 3' Cable
- (1) 12VDC Power Supply
- (1) RJ-45 Wired Ethernet Adapter Dongle
- (1) Relay/Push-to-Exit Wiring Harness
- (1) Bell Connector Wire Set
- (4) Screws with Anchors
- (2) Hex-Head Screws
- (1) Allen Key
- (1) Installation and Instruction Manual



# 1. Installation

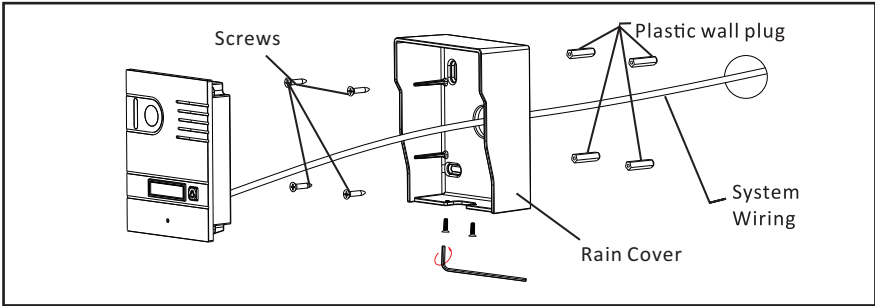
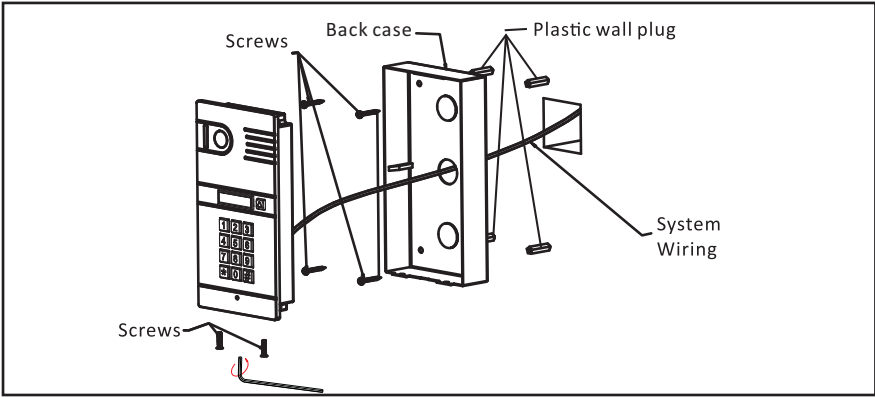
\*Note: It may be more convenient to perform the **initial** configuration of the IP Doorbell with it temporarily connected to power nearby your home internet router and a computer. This way testing and operation can be verified before the unit is mounted permanently.

- **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 or RJ-45 Dongle within the wall.

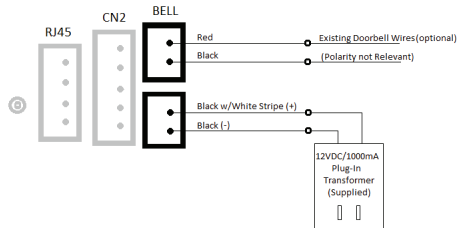
- **Back Box Mounting:** Feed the power supply wiring, wiring harness(s), and the Wi-Fi Antenna cable or the RJ-45 dongle through the hole from the back side of the back box. Use the four screws (and anchors, if required) supplied to mount the back box to the wall in the desired location.

- Connect 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.

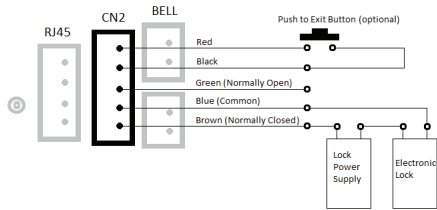


**Wiring Diagram for Power Supply Connections and  
Connection to Existing Door Chime (Optional)**



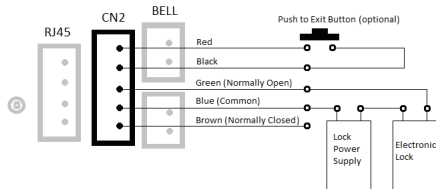
**\*PL960M/PM Lock and Bell Relays are Rated Maximum 3 Amps at 250VAC or 30VDC**

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



**\*PL960M/PM Lock and Bell Relays are Rated Maximum 3 Amps at 250VAC or 30VDC**

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



**\*PL960M/PM Lock and Bell Relays are Rated Maximum 3 Amps at 250VAC or 30VDC**



## 2. Configuration

Begin by performing a factory reset of the settings in your IP Doorbell. To default the settings to factory, follow these steps;

- Apply power to the IP doorbell.
- Within 5 seconds, press and hold the 'Bell' button until your hear a distinctive 1 second long buzzer sound (after approximately 1 minute, it is preceded by a flash of the illuminator LED's). Release the 'Bell' button after the buzzer sound stops.
- The IP Doorbell will reset once again (about one minute) and is ready to start configuration shortly after the illuminator LED's flash.

*\*Note: Performing a factory reset erases settings stored during the setup process. Do not perform a factory reset after you have configured the IP Doorbell unless absolutely necessary.*

**\*To Proceed with a Wireless (Wi-Fi) installation, go to step 3a.**

**\*To Proceed with a Wired (RJ45) installation, complete step 3a, then connect the RJ45 cable.**

**\*To Proceed with a Wired (RJ45) installation without any requirement for a Wi-Fi connection credentials, start at step 3b (advanced).**

## 2. Outdoor station configuration

### Downloading the App

To configure and receive calls from the Outdoor Station you need to download the ControlCam2 Application. Available on Google Play Store (Android) and Apple App Store (iOS).



ControlCam2

#### Notes:

- The ControlCam2 app is free to use.
- Keep the ControlCam2 app updated.
- The application is subject to changes with no prior notification.

### Preparing the App to be used

1. Make sure your smartphone is connected to your Wi-Fi network.
2. Open the app.
3. Click on the 'Sign up' button.
4. Enter a username, password, password confirmation, custom question and answer the custom question.
5. Read the terms and privacy, then click on the checkbox, agreeing with.
6. Click on 'Sign up' button. If the provided information is ok, 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'. Now you are logged into your account and can see your home screen.

## 2.1 Adding devices to your ControlCam2 account


### Configuring a new device

Before configuring a new device (Outdoor station or Skybox), it is necessary to perform the factory reset.

1. With the device powered on, Hold the 'call' button on Outdoor Stations or 'reset' button on Skyboxes for 1 minute.
2. The device's LEDs will flash. After, a long beep can listen.
3. When the LEDs light on means the factory reset was performed successfully.


Then, you can continue configuring your device, using the smartphone.

### 2.1.1 Configuring a new device using Android

1. Wait 2 minutes after the factory reset, allowing the device to restart properly.
2. Make sure your smartphone is connected to the Wi-Fi network in which the device (Outdoor Station or Skybox) will work on.
3. Inside the app, click on the floating "add" button. 
4. Choose the 'Configure via Wi-Fi' option.
5. Click 'Next' to start searching automatically the new device on the network. When found, a popup window will appear showing the Wi-Fi network and asking its password. (If the search finds more than one new device, a popup screen will appear showing the identification of each one. Choose the desired one, looking on the GID label placed on the device).
6. Enter the Wi-Fi password, and press 'OK'.
7. A popup message will appear, showing the device was configured successfully, press 'OK' to confirm.
8. In the device's details screen, insert the default password '1234', change the device's name to the desired name, and press 'Save'. (Do not change the GID identification).
9. Now you can see the device's image on the 'Home screen'. To access it, click on its image or its identification.

Once the Device has been added to the app, you will be able to access it by Wi-Fi or mobile data (3G/4G).

### 3.1.2 Configuring a new device using iOS

1. Wait 2 minutes after the factory reset, allowing the device to restart properly.
  2. Make sure your smartphone is connected to the Wi-Fi network in which the device (Outdoor Station or Skybox) will work on.
  3. Inside the app, click on the “add” button. 
  4. Choose the ‘Configure via Wi-Fi’ option.
  5. Press on ‘Configuration’.
  6. The name of the Wi-Fi network will appear, and the app will ask its password to continue.
  7. Enter the Wi-Fi password. (Do not press ‘Next’ yet)
  8. Go to the Smartphone’s Wi-Fi configuration (outside the ControlCam2 app), and look for the device identification (It will appear as ‘LID + GID identification’. The identification can be consulted looking on the GID label placed on the device).
  9. Go back to the ControlCam2 application and click on ‘Next’.
  10. In the device’s details screen, insert the default password ‘1234’, change the device’s name to the desired name, and press ‘Save’. (Do not change the GID identification).
  11. Now you can see the device’s image on the ‘Home screen’. To access it, click on its image or its identification.
- Once the Device has been added to the app, you will be able to access it by Wi-Fi or mobile data (3G/4G).

### 3.2 Adding a previously configured or wired device

You can add a previously configured or wired device through three methods: LAN search, QR code scan and manually.

1. Connect to the Wi-Fi network which contains the device.
2. Inside the app, click on the “add” button.
3. Choose the ‘Add Device Directly’ option.
4. On the ‘Add Device’ screen, choose one of the following methods.

## **LAN Search**

5. Press the 'Lan Search' button.
6. A list of all devices in the network will appear, click on the desired one.
7. On the 'Add Device screen' will appear the information from that device.
8. insert the password (default password is '1234'), change the device's name to the desired name, and press 'Save'. (Do not change the GID identification).
9. Now you can see the device's image on the 'Home screen'. To access it, click on its image or its identification.

## **QR Code Scan**

5. Press the 'QR CodeScan' button.
6. Accept the popup message to allow the app to access your camera.
7. Using the camera, look on the QR code placed on the device.
8. On the 'Add Device screen' will appear the information from that device.
9. insert the password (default password is '1234'), change the device's name to the desired name, and press 'Save'. (Do not change the GID identification).
10. Now you can see the device's image on the 'Home screen'. To access it, click on its image or its identification.

## **Manually**

5. Manually insert the device's GID. The identification can be consulted looking on the GID label placed on the device
6. Enter the default password '1234'.
7. insert the password (default password is '1234'), change the device's name to the desired name, and press 'Save'. (Do not change the GID identification).
8. Now you can see the device's image on the 'Home screen'. To access it, click on its image or its identification.

### **NOTES:**

- It is possible to add an unlimited number of devices to your app.
- Each device will support up to 4 concurrent connections.

## 3. Keypad Programming (PL960PM Model)

The PL960PM keypad can be custom programmed with up to 40 different access codes, and will trigger the same relay that is triggered through the ControlCam App. The length of the access codes and programming password can be programmed to be two to six digits in length (globally).

However, the master password and unlock delay times set in the keypad are independent of the IP Doorbell. A factory reset of the IP Doorbell will not affect the programming contained in the keypad and vice versa. The keypad requires a separate factory reset to clear the programming.

### **Modify the Programming Password:**

1. Disconnect power to the IP Doorbell.
2. Restore the power to the IP Doorbell. Two short chirps will be heard.
3. Within 3 seconds press the '\*' button.
4. Enter the new password (length determined through other programming). A longer beep is heard, indicating the new password has been successfully stored.
5. Press '\*' to exit the programming mode.

### **Enter Programming Mode:**

1. Press the '\*' button, a chirp is heard.
2. Enter the programming password (default is 1234). A longer beep is heard, indicating the IP Doorbell is now in programming mode.
3. The IP Doorbell will automatically exit programming mode if there is no input at the keypad for over 30 seconds or press '\*' to exit programming.

### **Set Unlock Duration Time:**

1. Enter programming mode.
2. Press '00', a longer beep is heard.
3. Enter two digits (01 – 99) representing the new unlock duration time, in seconds. A longer beep is heard confirming the change.
4. Press '\*' to exit the programming mode.

### **Add User Access Codes:**

1. Enter programming mode.
2. Enter two digits (01 – 40) representing the slot in which the user code will reside, a longer beep is heard.
3. Enter the new user code (length determined through other programming); another longer beep will indicate the new code was stored successfully.
4. Press '\*' to exit the programming mode.

**\*Note: Slots 31 – 40 are not affected by the programmed unlock duration time. These access codes will only trip the relay for about 1second.**

### **Delete User Access Codes:**

1. Enter programming mode.
2. Enter two digits (01 – 40) representing the slot containing the access code you want to delete. A longer beep is heard.
3. Press the '#' button, another longer beep is heard confirming the deletion.
4. Press '\*' to exit the programming mode.

### **Delete User Access Codes Directly:**

1. Enter programming mode.
2. Press '#', two short chirps are heard.
3. Enter the access code you want to be deleted, a longer beep is heard confirming deletion of the access code.
4. Press '\*' to exit the programming mode.

### **Setting the Length of the Access Codes and Programming Password:**

1. Enter the programming mode.
2. Press '99', a longer beep is heard.
3. Enter a single digit (2 – 6) representing the desired length of the access codes and programming password, and a longer beep is heard confirming the change.
4. Press '\*' to exit the programming mode.

### **Delete All Settings (Maintains Programming Password):**

1. Enter programming mode.
2. Press '#', two short chirps can be heard.
3. Press '#' again, a longer beep can be heard.
4. Press '#' again seven more times. After three seconds another longer beep will be heard confirming deletion of all User codes and resetting the unlock duration time back to 1 second. Programming password and length will remain unchanged.
5. Press '\*' to exit the programming mode.

### **Factory Reset (Custom Keypad Settings Only):**

1. Disconnect power to the IP Doorbell.
2. Restore the power to the IP Doorbell. Two short chirps will be heard.
3. Within 3 seconds, press the '#' button. A longer beep is heard, indicating the keypad programming has been restored to factory default settings.

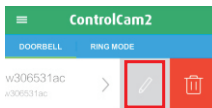
## 4. Using the ControlCam2 App

### 4.1. Device's Settings

From the device's setting screen is possible to adjust some settings to the device.

Access the 'Device's setting screen' according to the smartphone you are using:

- Using an Android smartphone or tablet, from the 'Home screen' swipe the device's image to the left, and click on the 'edit' button.



- Using an iOS smartphone or tablet, from the 'Home screen' click on the 'engine' button.



## **Changing device's name, username and password**

When desired you can change the device's username and password, or after another user has changed, it is necessary to change on the other users.

1. In the 'Device's setting screen' enter the new information (username and/or password, and name if desired).
2. Press 'Save'.
3. The app will go back to the 'Home screen' and the device will be actualized with the new information.

## **Unlock Time**

It is possible to change the time which the auxiliary contact for gate opener will be activated.

1. In the 'Device's setting screen' enter the new unlock time (1 -100 seconds, where the default is 1 second), and press 'OK'.
2. Press 'Save'.
3. The app will go back to the 'Home screen' and the device will be actualized with the new unlock time.

## **One-Key Unlock**

To activate the device's auxiliary contact (gate opener) from the app without the necessity to enter the 'unlock password', it is necessary to activate the 'One-Key Unlock' option (it requires you have set an 'unlock password').

1. In the 'Device's setting screen' click on the 'One-Key Unlock' button.
2. Press 'Save'.
3. The app will go back to the 'Home screen' and the device will be actualized with the new unlock time.

## **4.2. Advanced Device's Settings**

On the 'Device's setting screen' click on the 'Advanced Settings' button.

### **Modify Device Password**

It is possible to change the access password (which the device

request to the app each time it is accessed).

1. In the 'Advanced Settings screen' click on 'Modify Device Password'.
2. Enter the 'device password' (current), then insert the 'new password' and the 'password confirmation'.
3. Press 'Save'.
4. Exit the 'Device's Settings Screen'.

Note: It is a good feature for building managers. During a change of tenants, there is only the necessity to change the device password and offer the device's GID and new password for the new tenant, blocking the access to the old tenant.

## **Modify Unlock Password**

A password is required to activate the device's auxiliary contact (gate opener) from the app. This step is also required to allow the 'One-Key Unlock' function.

1. In the 'Advanced Settings screen' click on 'Modify Unlock Password'.
2. Enter the 'unlock password' (current) (the default is 1111), then insert the 'new password' and the 'password confirmation'.
3. Press 'Save'.
4. Exit the 'Device's Settings Screen'.

## **Motion Detection**

The app ControlCam2 allows you to set directly a motion detector alarm for your device. It allows monitoring your device even when a person does not press the call button.

1. In the 'Advanced Settings screen' click on 'Motion Detection'.
2. Click on the 'On/Off' button.
3. Press 'Save'.
4. Exit the 'Device's Settings Screen'.

## **Set Time**

To improve your experience with the device, keep its time synchronized with your smartphone.

1. In the 'Advanced Settings screen' click on 'Set Time'.

2. A popup message will appear. Then click on the 'Ok' to confirm.
3. Exit the 'Device's Settings Screen'.

## **Reboot/Restore**

In case of malfunction of your device, you can try to troubleshoot it using this option. Use Reboot to force a reset on the device, and Restore to force a factory reset.

1. In the 'Advanced Settings screen' click on 'Reboot/Restore'.
2. Select the desired option 'Reboot' or 'Restore'.
2. A popup message will appear. Then click on the 'Ok' to confirm.
3. Exit the 'Device's Settings Screen'.

## **4.3. Deleting a device from the app**

1. Click on the 'delete' button
  - Using an Android smartphone or tablet, from the 'Home screen' swipe the device's image to the left, and click on the 'trash bin' icon.
  - Using an iOS smartphone or tablet, from the 'Home screen' click on the 'trash bin' button on the device.
2. A popup notification will appear, asking you to confirm. Click on 'OK'
3. The device will be removed from the account in use, but it will still be configured and connected to the local network and other ControlCam2 accounts which have this device.

## **4.4. ControlCam2 Operations**

### **Answering a call**

When the visitor presses the call button on the outdoor station, your smartphone will receive a ring notification. (Make sure to enable notifications from the app to your smartphone). You can 'Accept' or 'Decline' on the pop-up call alert of the app.

If accept, use the following steps to have a conversation with the visitor

1. Press on the microphone icon and the audio from the outdoor




station and the 'Push to talk' microphone will be enabled.

2. Press and hold the 'Press to Talk' button to talk with the visitor.

## Unlocking the Door


During a call or monitoring mode, click on the 'locker' button to activate the gate opener

1. Press the 'locker' button on 'device's home screen' to unlock  the door.
2. If the 'One-Key Unlock' is not turned on, a popup message will ask you to enter the unlock password (default is '1111').
3. The door will unlock during the configured unlock time.


## Monitoring the Outdoor Station

At any time, from the 'Home screen' click on a device's image to access the live stream from the outdoor station. The monitor mode allows you to access all the option than during a call (take a snapshot, record video, listen the outdoor station sound and talk through the outdoor station microphone).

## Image Capture

During a call or monitoring mode, click on  to take a snapshot of the outdoor station's image. It can be accessed from the home screen's menu, in 'Media'.

## Video record

During a call or monitoring mode, click on  icon to start recording a video from the outdoor station's image. Click again to finish the record. It can be accessed from the home screen's menu, in 'Media'.

## Accessing recorded videos/images

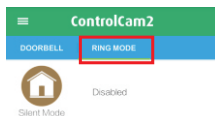
1. From the device home screen, click on the main menu icon.



2. Select the 'Media' option.
3. The first tab shows the recent files (images and videos), the second shows only videos and the third only images.
4. To delete a file, press and hold on the image then confirm the popup message.

## App Mode

The second tab of the ControlCam2 'Home Screen' shows the app modes which you can choose the best option for you.



**Silent Mode** – does not show any notification on the smartphone screen. However, the app continues storing the device's alarms.

**Ring Mode** – allows all the devices listed in the user account to notify the smartphone.

**Selective Mode** – allows you to choose which device can or can not notify you with ring and notifications.

1. From the device home screen, click on the second tab which shows your current mode.
2. Select the desired mode. If this is not the current one, a popup message will appear asking you to confirm the change.

**Note:** If you change to **Selective Mode**, you will be able to click on the mode and select which devices can notify you.

## 4.5. User Account Configuration

Access the user account's settings by clicking on the 'menu' button from the 'home screen', then click on your profile image or your username.

## **Change User Account Password**

1. From the device 'Account screen', click on 'Change Password'.
2. Enter your 'password' (current), then insert the 'new password' and the 'password confirmation'.
3. Click on the 'Done' button.
4. You will be redirected to the login screen and will need to insert username and the new password.

## **Change Verification Question and Answer**

1. From the device 'Account screen', click on 'Reset Verification'.
2. Enter your 'password' (current), then insert the 'new custom question' and the 'new custom answer'.
3. Click on 'Save'.

## **Log Out the App**

1. From the device 'Account screen', click on 'Logout'.
2. You will be redirected to the login screen and will need to insert username and password to reconnect.



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