

amroad

# VIDEO DOOR PHONE DP3010R

## MANUAL FOR SYSTEM INTEGRATOR



Amroad Technology Inc.

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# Chapter 1: Introduction

## Welcome

Thank you for choosing this Video Door Phone. This device is designed to work as Video Door Phone of large building or community to form a SIP-based door entry system. Besides taking advantages of IP technologies, this device links to other SIP devices. It will work with most IP PBX systems supporting audio and video, and it can be configured via a web interface.

This product contains following main features:

- Talk to visitors with real time video and voice on IP Video Phone or Video Indoor Station
- SIP 2.0 (RFC3261) Compliant
- Support H.263 video format.
- Support G.711 audio formats.
- 4.3" TFT LCD Screen (Sunlight Readable)
- RFID card reader (ISO14443A/13.56MHz (MIFARE Standard) with embedded RFID card database
- Support Peer-to-Peer Mode
- Key in address number to access resident
- Build-in wide angle lens and white LED light-compensator.
- Build-in speaker and microphone.
- Water and dust resistance capabilities (IP55).
- Scan RFID card or Enter password to open the door



Figure 1: DP3010R

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- Support PoE (Power over Ethernet, 802.3af) module (External power supply AC 48V)
- Web user interface for configuration and management.

NOTE: The Max Power Consumption of DP3010R is 24W (DC 12V/2A).

Please read this user guide before installing the device. Please contact your dealers or system integrators if you have questions.

## General Application of Door Entry System

There are two major series of Video Door Phone: community series and single unit series. They are applied on different conditions. Please see following descriptions:

### Single Unit Application

Single unit series is designed for units of apartment or single house. Please see Figure 2 for reference.

- Using a home IP PBX to connect all SIP-based devices.
- Communicate with each device simply with extension numbers.
- Connect to SIP VoIP services via Internet.

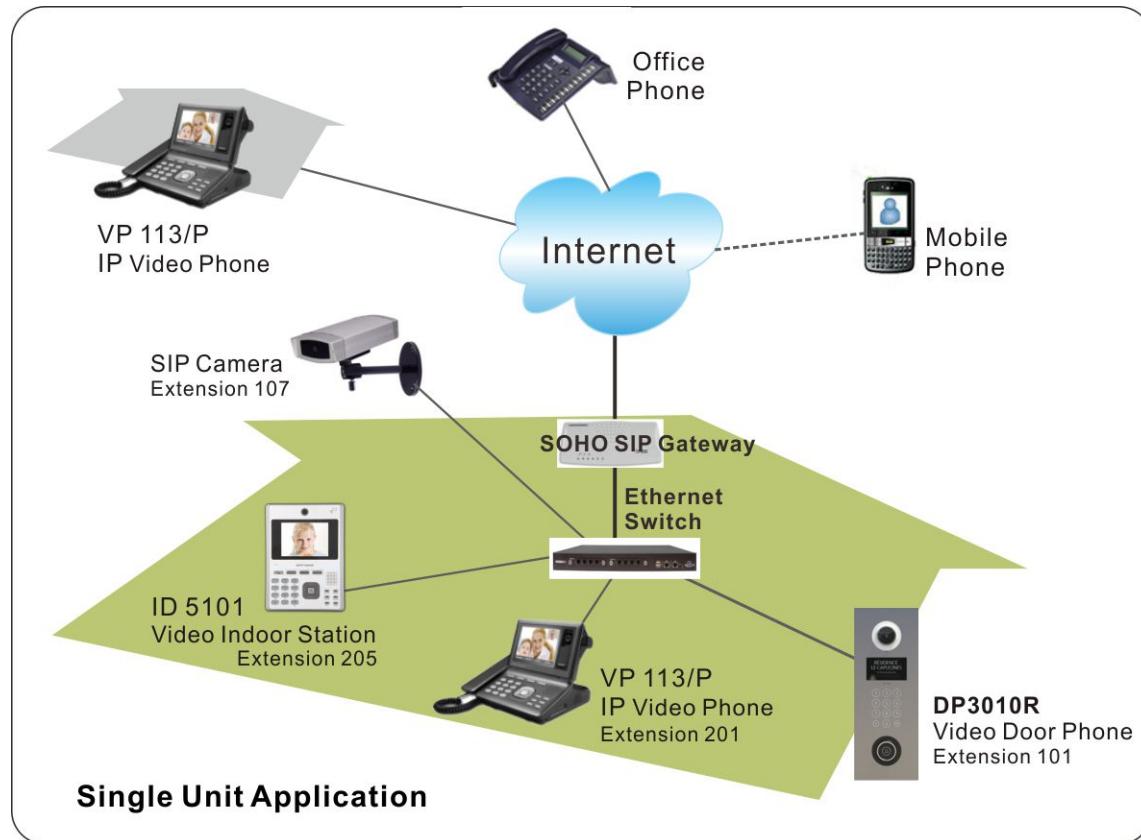


Figure 2: Single Unit Application

## Community Application

Community series is designed for building, apartment or community. Please contact with your local dealer about Amroad DP3010R, and DP100.

- Connect each house or apartment with a large IP PBX.
- Inhabitants can check visitors with VP113/P, ID5101, monitor public areas or call each others with extension numbers.
- Connect to SIP VoIP services via Internet.

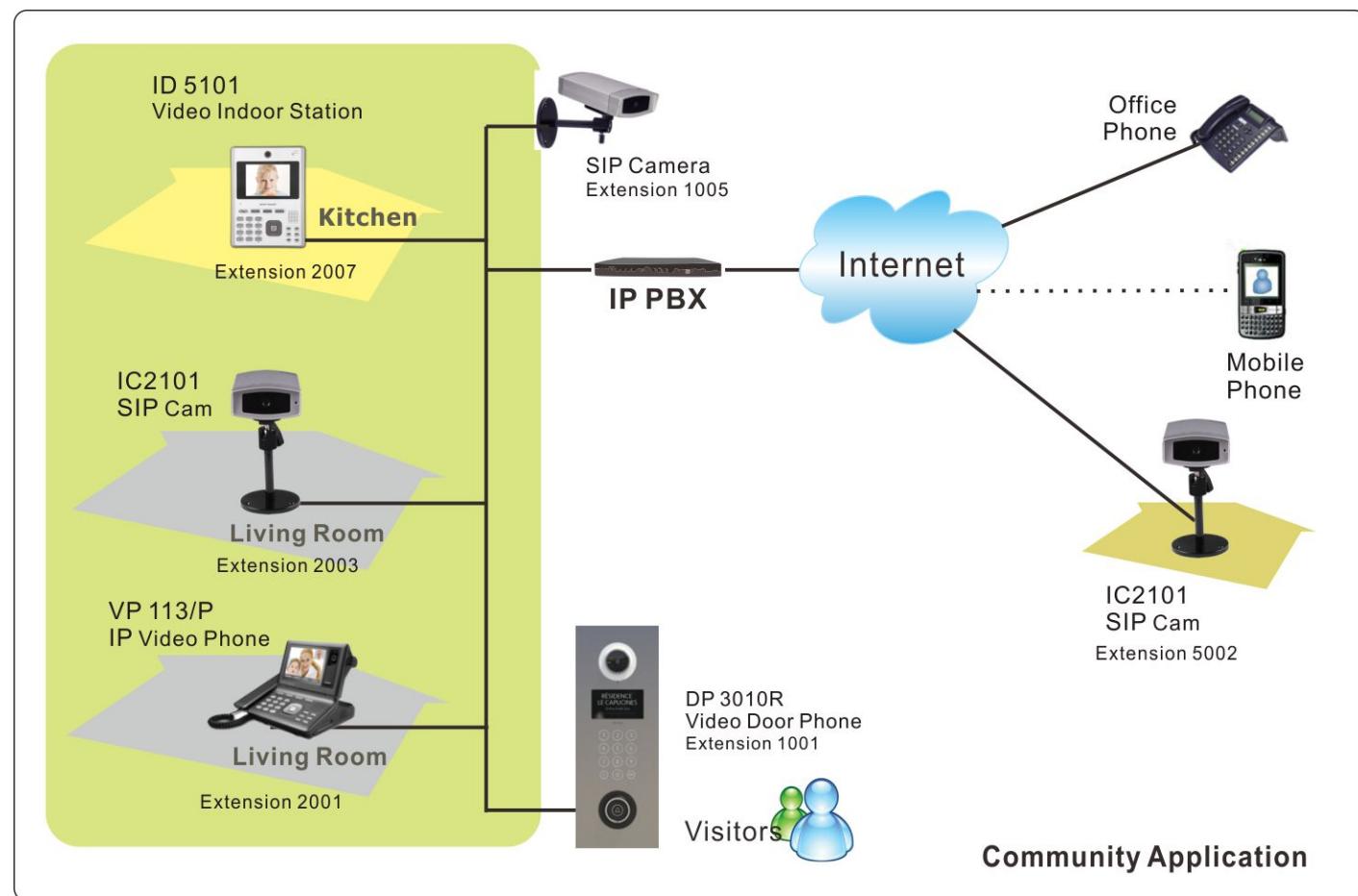
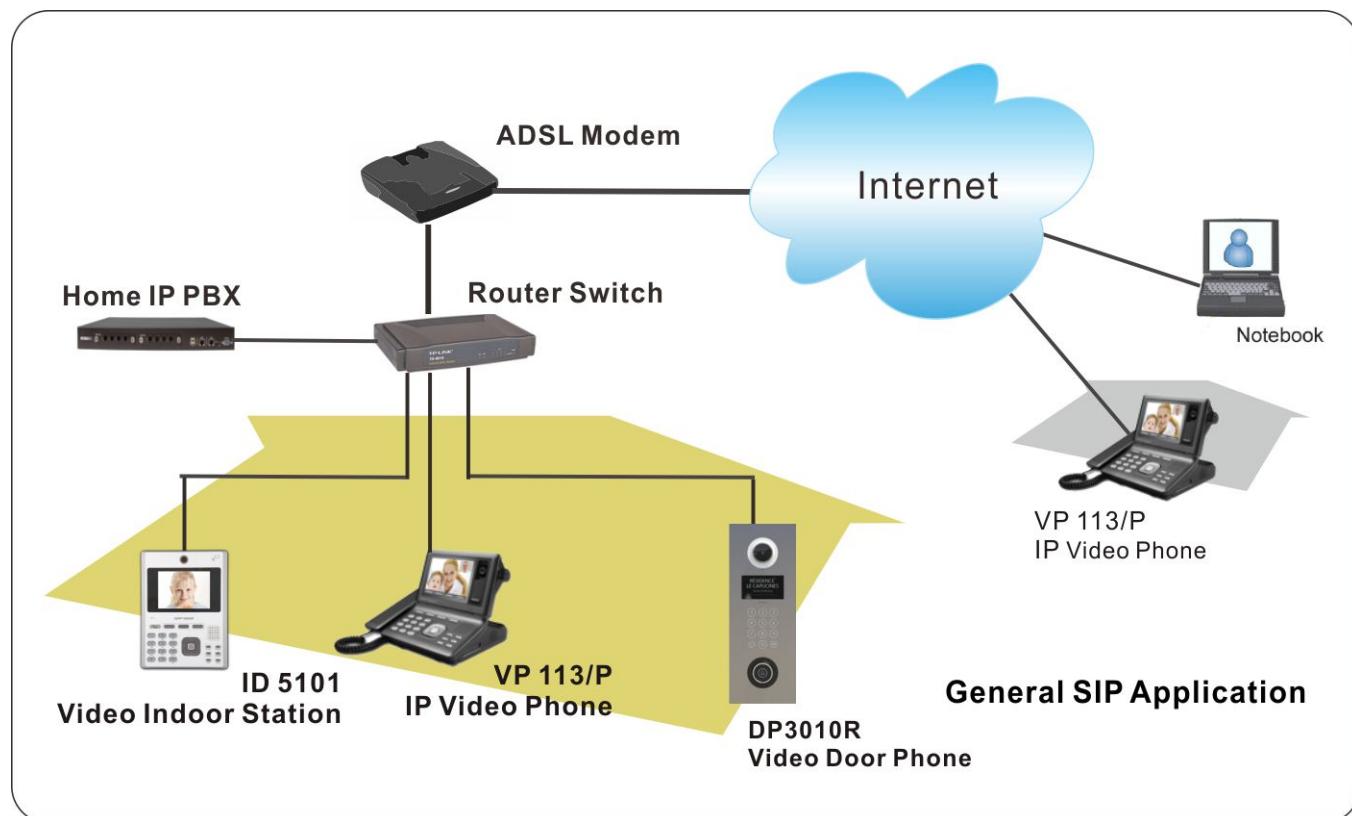


Figure 3: Community Application

## Use of SIP

SIP, initial of Session-Initiation-Protocol, it is an application-layer control (signaling) protocol for creating, modifying, and terminating sessions with one or more participants.

These sessions include Internet telephone calls, multimedia distribution, and multimedia conferences. In short, SIP is a most commonly used protocol that has been used to interconnect SIP Enabled PBXs and/or SIP User Agents to each other to establish voice and video sessions between SIP based devices over IP Network.



There are few typical applications of SIP products, please refer to Figure 4:

**Figure 4: General SIP Application**

- Ring the Door Bell from Video Door Phone (DP3010R) to IP Video Phone (VP113/P)/Video Indoor Station (ID5101)/IPC Softphone

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- Make a DP3010R live-video view phone call from IPC Softphone /IP Video Phone / Video Indoor station.
- Make a video phone call from ID5101 Video Indoor Station to VP113 IP video phone.
- View video from softphone on your computer.

# Chapter 2 : Knowing Video Door Phone

## Package Contents

The following items are included in your Video Door Phone package. Check this list before installation to ensure that you have received all items.

1. Video Door Phone Unit (with protective cover)
2. Wall Mounting Box (including L-IRON)
3. Relay Board
4. 5-pin Terminal block + 2-pin Terminal block + Cord End Terminal (7 pieces)
5. Wall Mounted Screw Pack
6. 2-pin Terminal block + Cord End Terminal (2 pieces)
7. Hang Rod x2
8. Fixing Tool
9. Cable Ties x6
10. Master RFID Card
11. Quick Installation Guide & Quick Start Guide (English and Chinese)

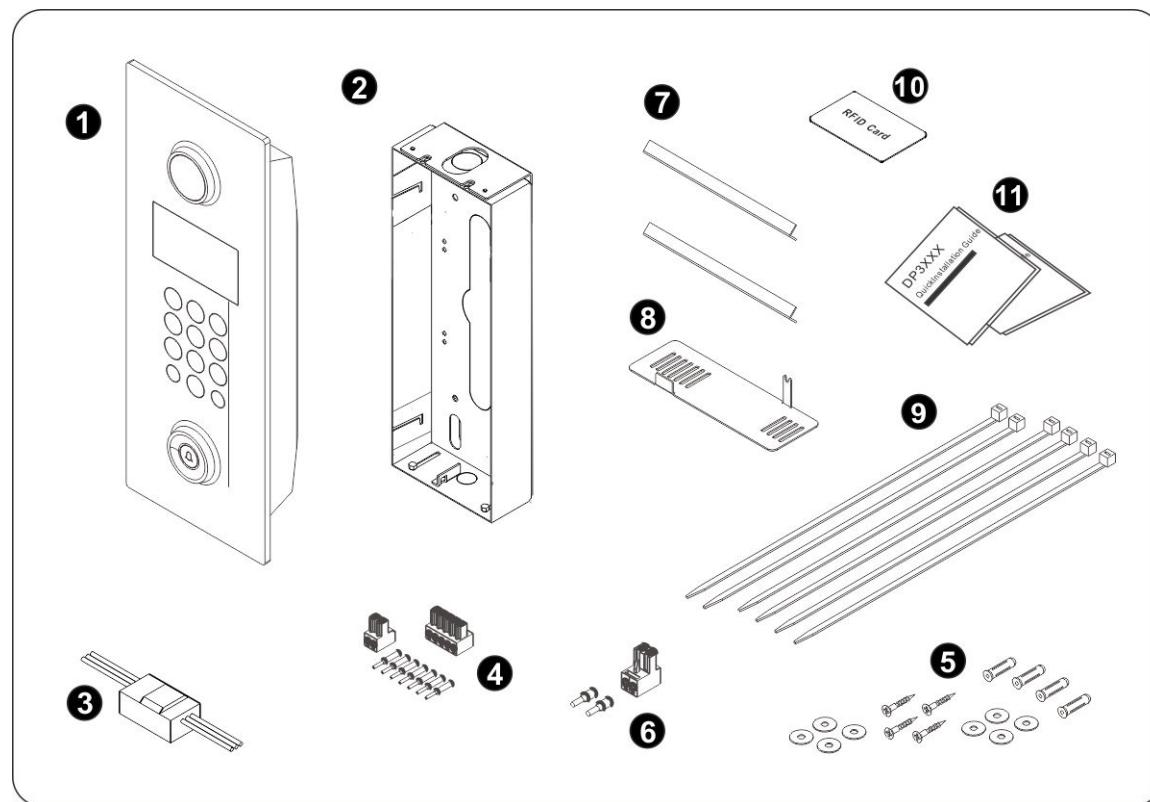


Figure 5: Package Contents

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Please contact your dealer immediately if any item(s) is missing.

## Front Panel

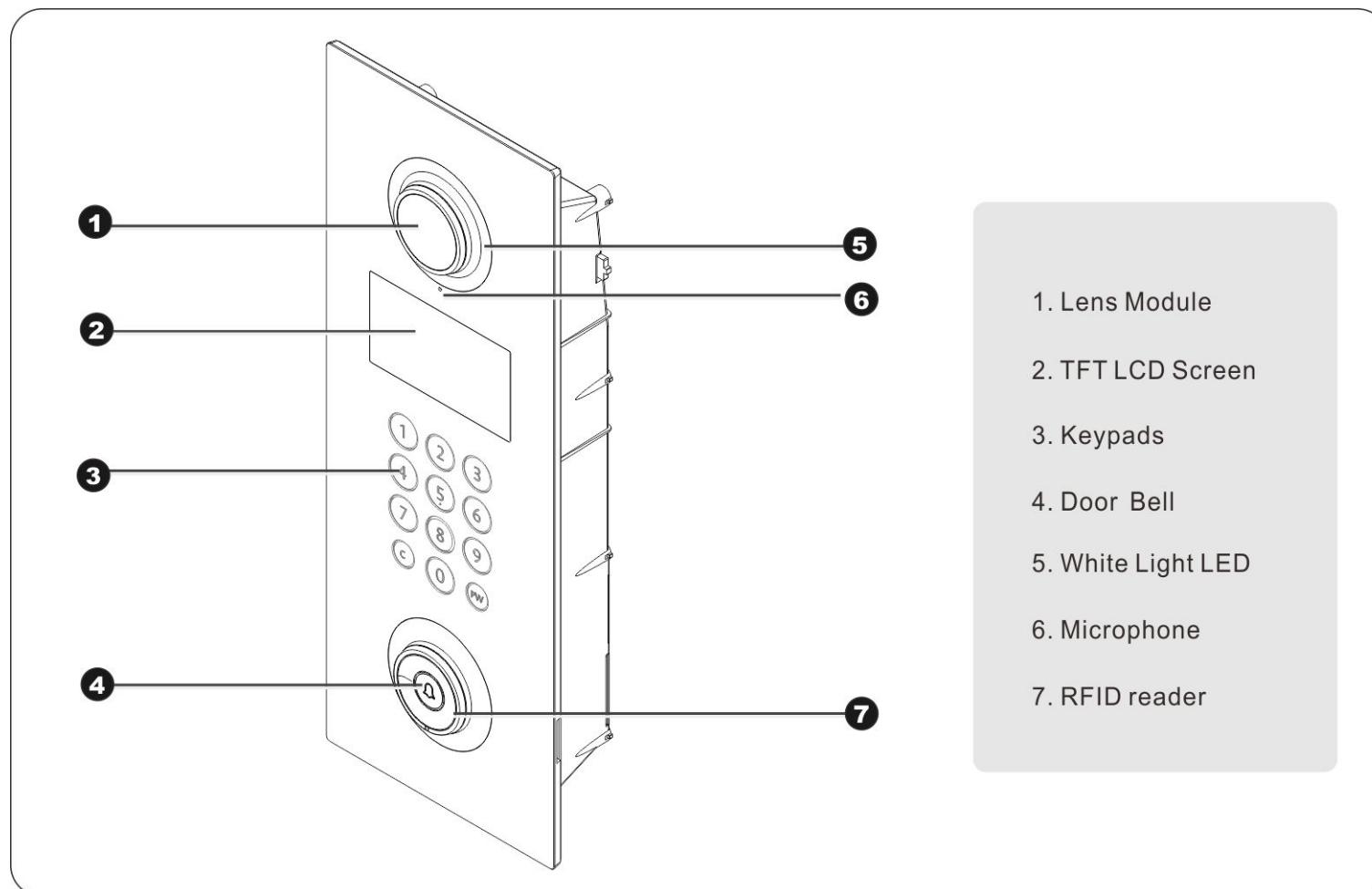


Figure 6: Front Panel

## Rear Panel & Side View

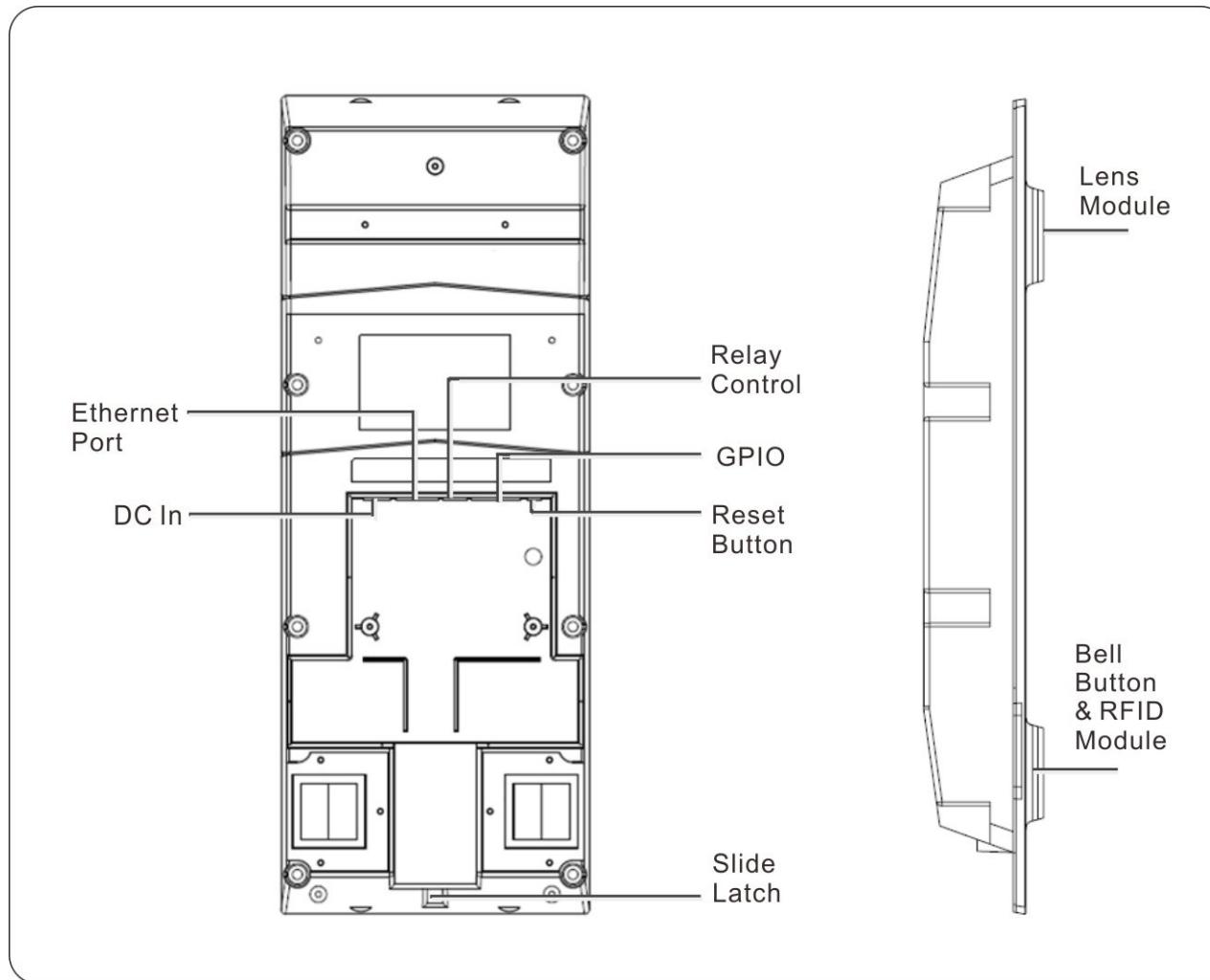


Figure 7: Rear Panel & Side View

## Dimensions

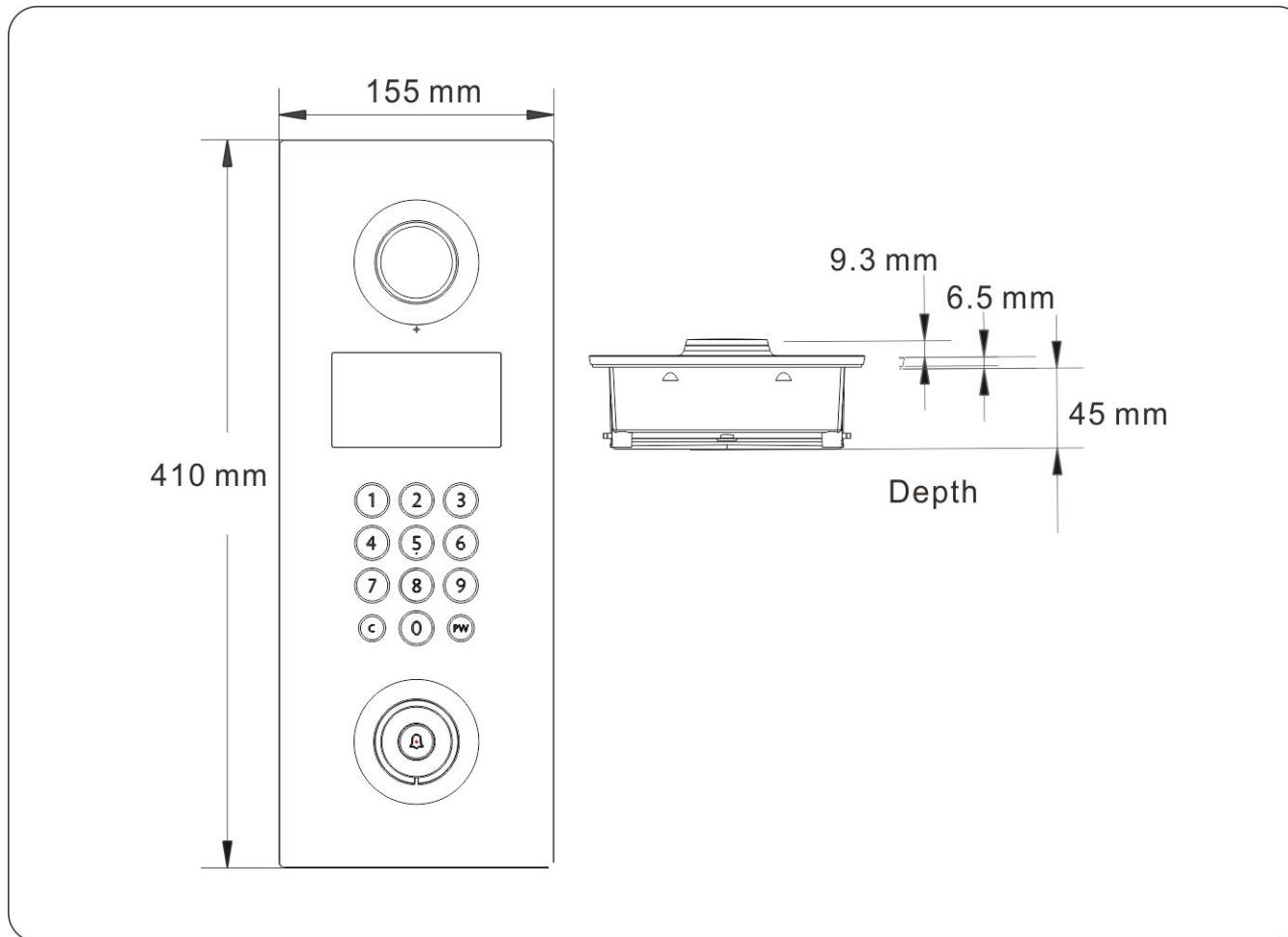


Figure 8: Dimensions

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# Chapter 3 : Installing Video Door Phone

## Suggested Installation Position

The view angle of the lens module is limited, so the installation position for Video Door Phone is crucial. The video door phone comes with a wall mounting box. In order to get a better view and the view angle of this door phone is around 105°, the height of the bottom of the wall mounting box is suggested about 120 cm (please refer to the diagram on next page) far away from the ground according to building conditions. Please also refer to Figure 9.

## Lighting Condition

In order to get better visual quality, this product provides WL (white light) LED for lighting at night or lower light condition. The Lens of this device is able to see WL (White Light) LED light. In order to get a better view, the view angle of this door phone should be less than 105°. (Also the height of the lens position is suggested at the distance of 155 cm according to building conditions.)

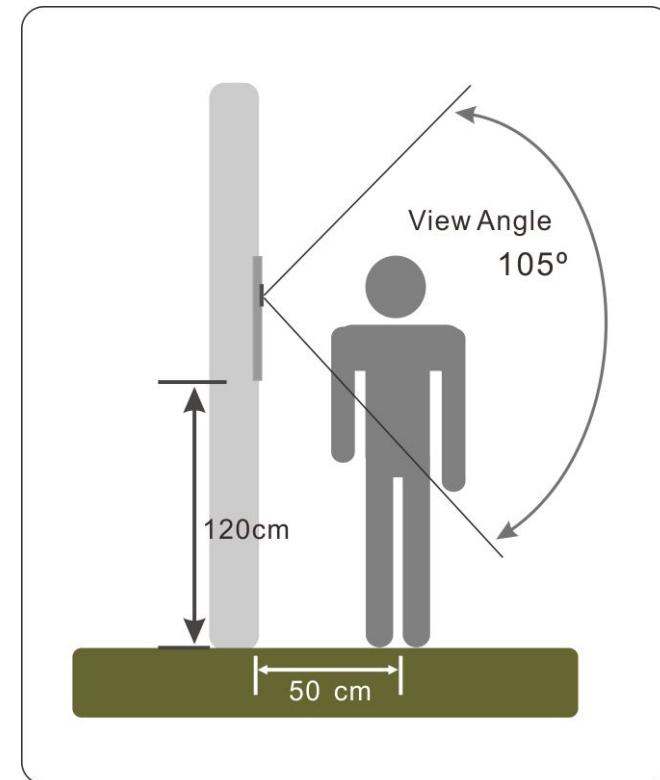


Figure 9: Suggested Installation Position

**WARNING:** Avoid eyes exposure to the beam of the WL (White Light) LED for a long time, or it may cause discomfort to your eyes.

## Installing Procedures

### 1. Wall Hole Drilling

Drill a rectangular hole the size of 142mmx 390mm on the wall with its depth 65~100mm. And, it is suggested that the depth should be 65mm for DP3010R installation. At the same time, the bottom of the rectangular hole is at a distance of 1200mm (120cm) above the ground.

NOTE: Reserve the space for junction wiring in the wall.

The junction wiring are for Ethernet cable, DC power, Ground wire, and Relay control.

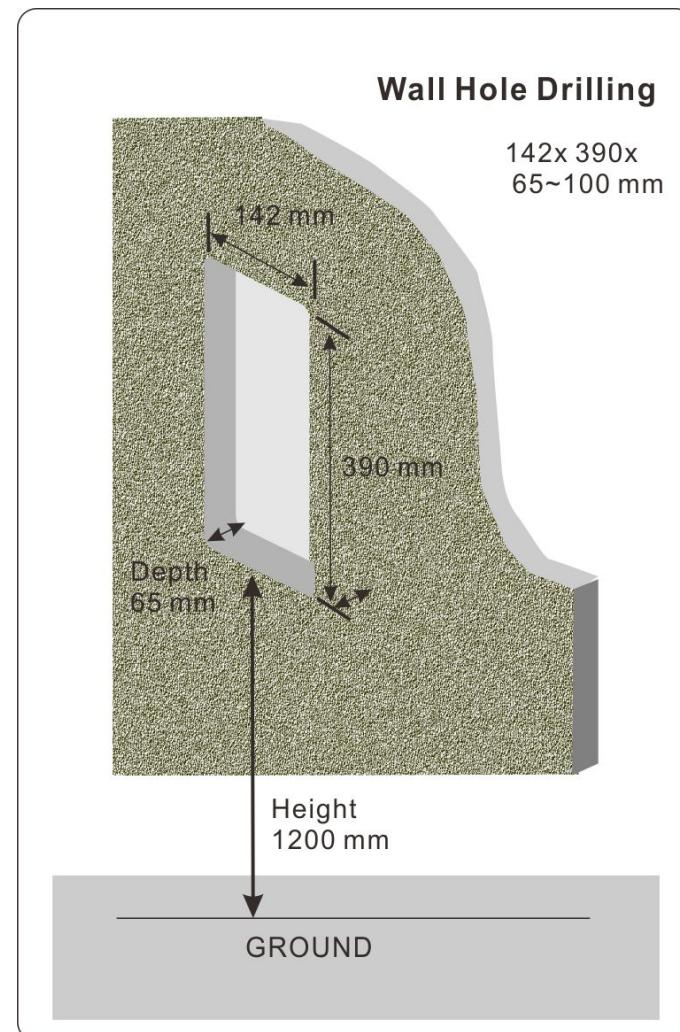
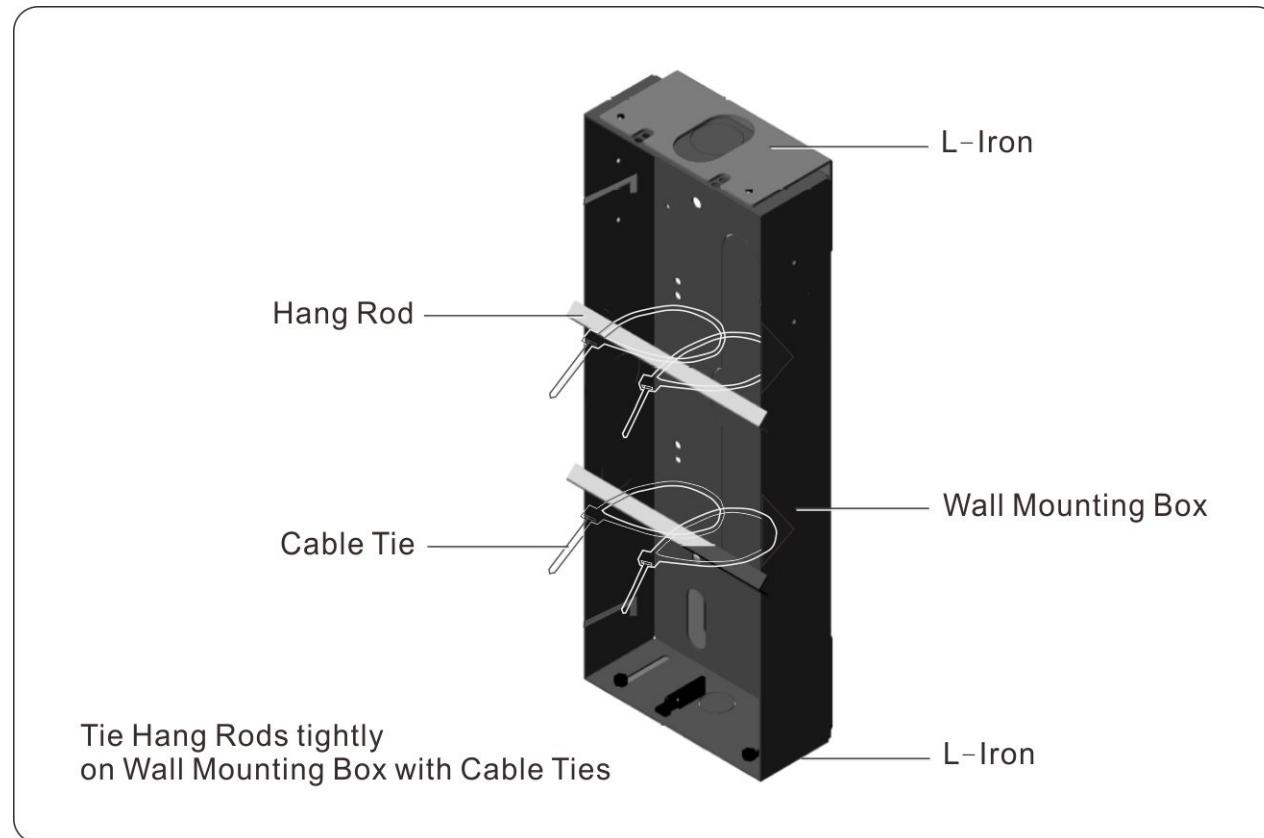


Figure 10: Wall Hole Drilling

## 2. Installing Wall Mounting Box (Flush Mount)

Before installing DP3010R on the wall, Wall Mounting Box should be first mounted on the wall. The following diagram shows the main components and tooling of the wall mounting box of DP3010R.



**NOTE:**  
Hang Rod is used to keep Wall Mounting Box parallel to the surface of the wall.

**Figure 11: Tie Hang Rods tightly on Wall Mounting Box with Cable Ties**

The procedure for installing wall mounting box is described in details. Take out the main unit and parts from package contents. Please follow the steps below to installing wall mounting box:

- Step 1** Put wall mounting box into wall hole, place a spirit level (bubble level) on the wall mounting box, mark the four on the wall for drilling holes.
- Step 2** Drill four holes for wall screw anchors.
- Step 3** Hammer four wall screw anchors into the drilled holes (Refer to the figure on next page).
- Step 4** Remove L-Iron from wall mounting box by loosing screws.
- Step 5** Secure four screws and washers to secure the wall mounting box and secure four screws on L-Irons.
- Step 6** Tie four cable ties on the wall mounting box. (Refer to the diagram on previous page).
- Step 7** Again put wall mounting box into wall hole, secure wall mounting box with L-Irons by securing four screws.
- Step 8** Put Hang Rod in the cable ties, tie Hang Rods tightly on Wall Mounting Box to keep wall mounting box parallel to the surface of the wall.
- Step 9** Again place a spirit level (bubble level) on the wall mounting box, Fasten L-Irons on the wall.
- Step 10** Fasten screws to fasten wall mounting box with L-Irons.

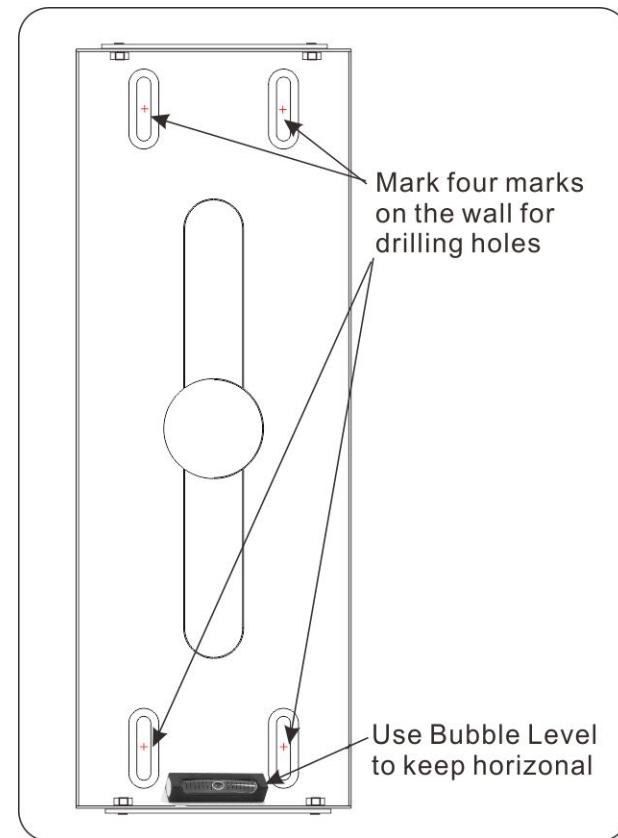


Figure 12: Four Marks and Bubble Level

**Step 11** Remove Hang Rod and cable ties.

**Step 12** Wire and cable connection

**Step 13** Install DP3010R Main Unit

**Step 14** Lock DP3010 on the wall.

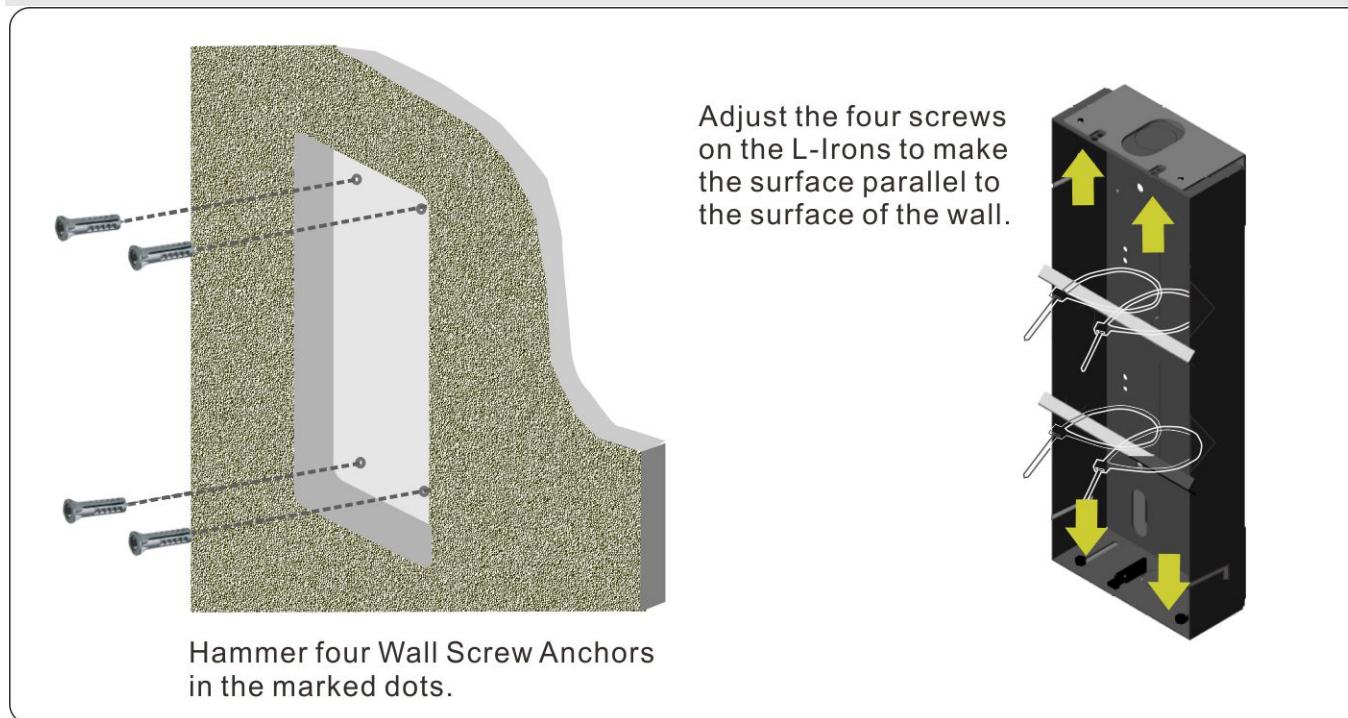
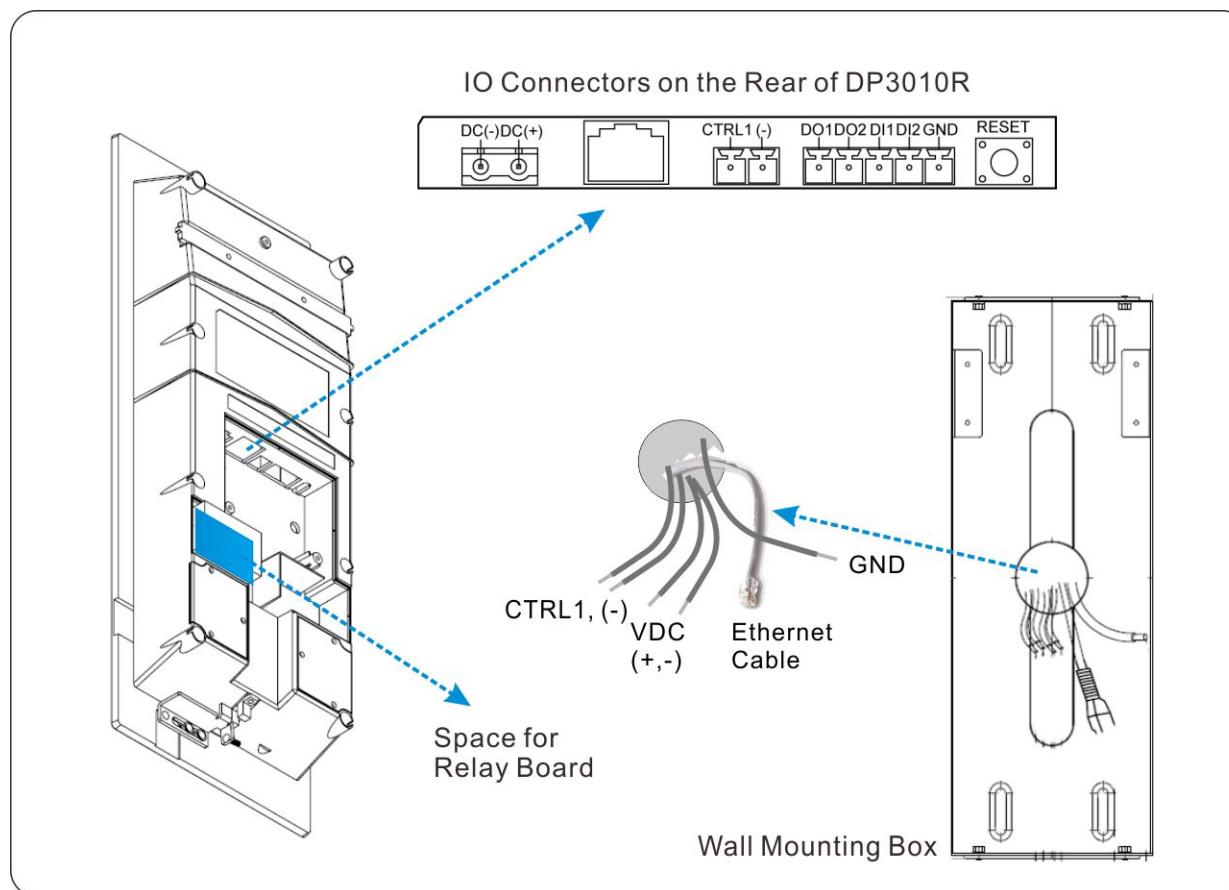


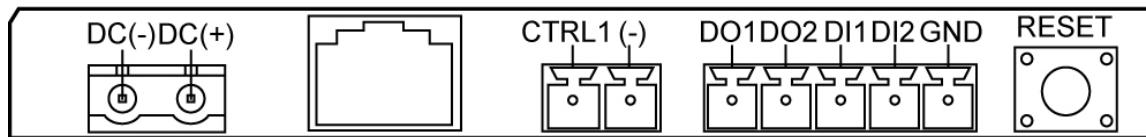
Figure 13: Hammer Wall Screw Anchor and Move slightly the screws on the L-Irons to make the surfaces parallel.

### 3. Wire and Cable Connection

In the center of the wall mounting box, wire and cable go through the wall and are mainly used for power, network connection, and relay control. There are IO connectors on the rear side of the DP3010R. They are DC power, Ethernet port (RJ-45 connector), and GPIO wire.



**Figure 14: Wire and Cable from the wall and going through the center of the Wall Mounting Box**



**Figure 15: IO Connectors on the Rear Side of the DP3010R**

## GPIO (General Purpose Input/Output) & Relay Control

The following table explains input and output pins of GPIO and Relay Control.

Port definition	Description
<b>DI1</b> (Digital Input port 1)	DI1 is used for detecting whether the door is closed or not. (Or, it is used for PIR.)
<b>DI2</b> (Digital Input port 2)	DI2 is used to connect to indoor “Open Door” button.
<b>DO1</b> (Digital Output port 1)	DO1 is used for external lighting.
<b>DO2</b> (Digital Output port 2)	(Reserved)
<b>CTRL 1</b>	Connect to <b>CTRL 1</b> on Relay Board to control Electronic Door Lock.
<b>(-) (GND)</b>	Connect to GND

**NOTE:** 1. Pressing **RESET** button for about **6 seconds** for the device to restore to its original factory default.

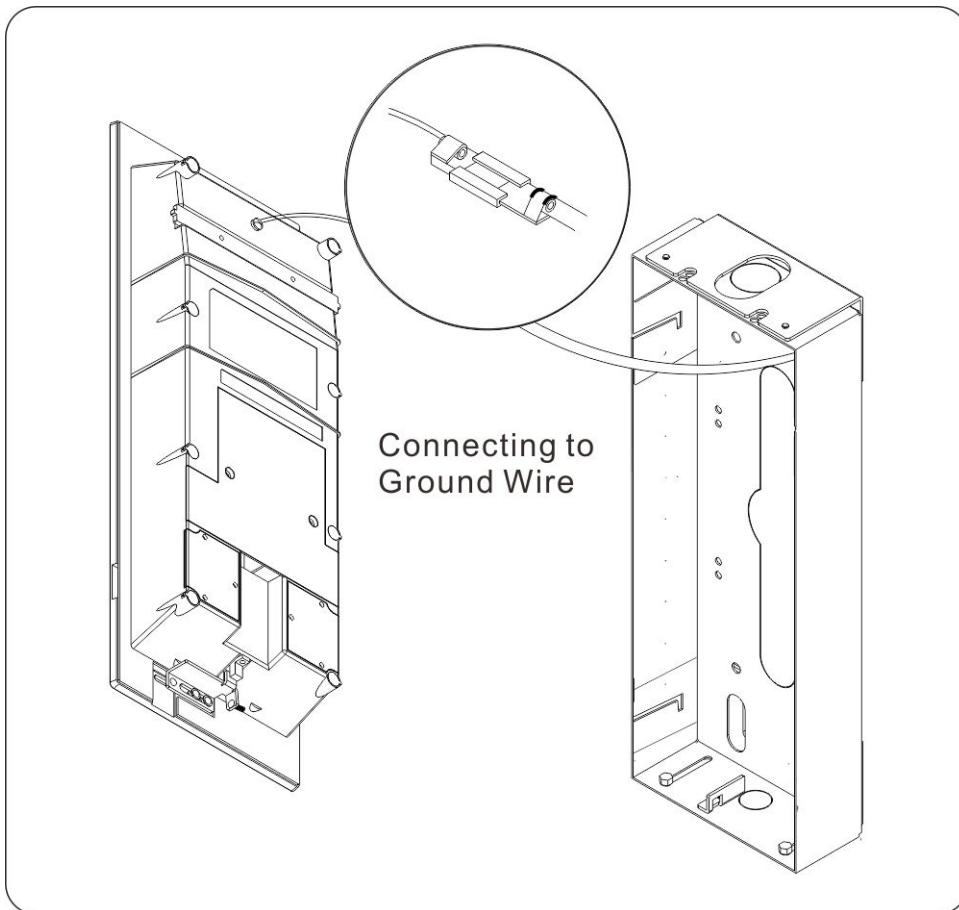
System will **clear all RFID log, Configuration, and Number Entry Screen data.**

The network connection mode of the device will become **DHCP** mode.

**NOTE:** 2. For more detailed information, please refer to Appendix A. IO Circuit Application.

## Connecting to Ground Wire

To prevent power surge and lighting strike from damaging DP3010R, wall mounting box should be connected to the ground wire (earth wire) of the building. Connect the screw (for earth wire) of wall mounting box to ground wire of the building and fasten them.



### NOTE:

To prevent power surge and lightning strike from damaging DP3010R, wall mounting box should be connected to the ground wire (earth wire) of the building, and power switching in public area for DP3010R should also be connected to the ground wire (earth wire).

Figure 16: Connecting to Ground Wire

## Fasten Rear Cover and Waterproof Mat

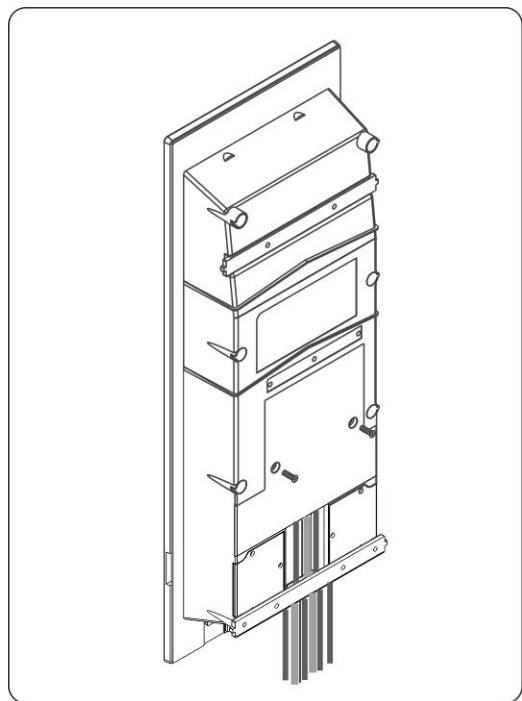


Figure 17: Put Back Rear Cover

After cable and wire connection are completed, Rear Cover needs to be put back and fastened by screwing 2 screws.

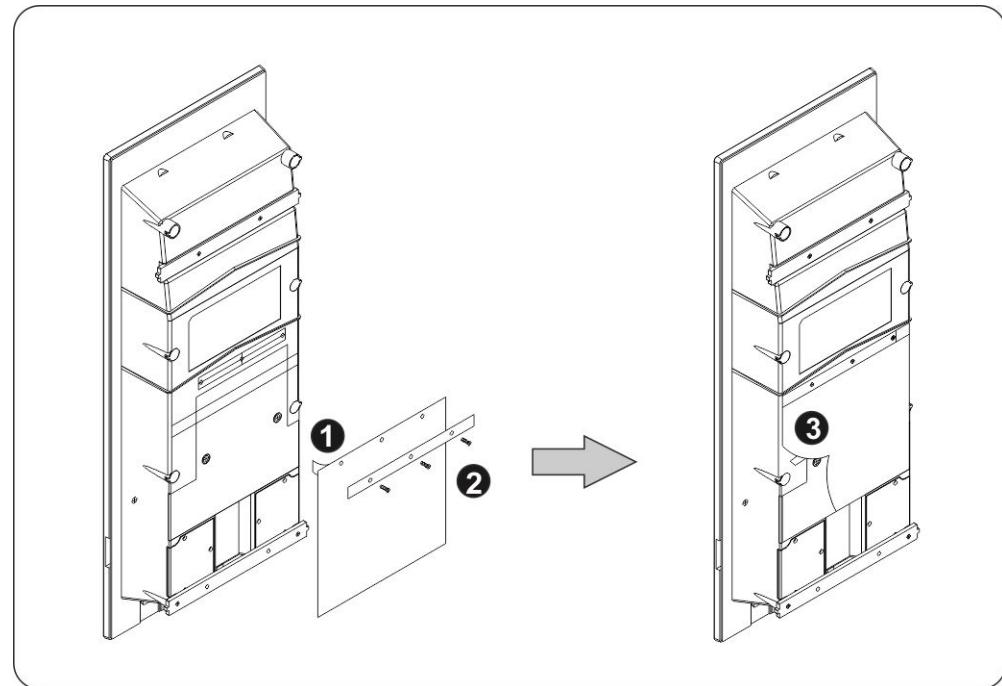


Figure 18: Install Waterproof Mat

The following steps show how to install Waterproof Mat:

1. Tear off adhesive tape on the upper end of the waterproof mat.
2. Fasten waterproof mat and bracket by screwing 3 screws.
3. Tear off adhesive tape on the center of the waterproof mat and attach adhesive side to rear cover smoothly.

## 4. Installing DP3010R

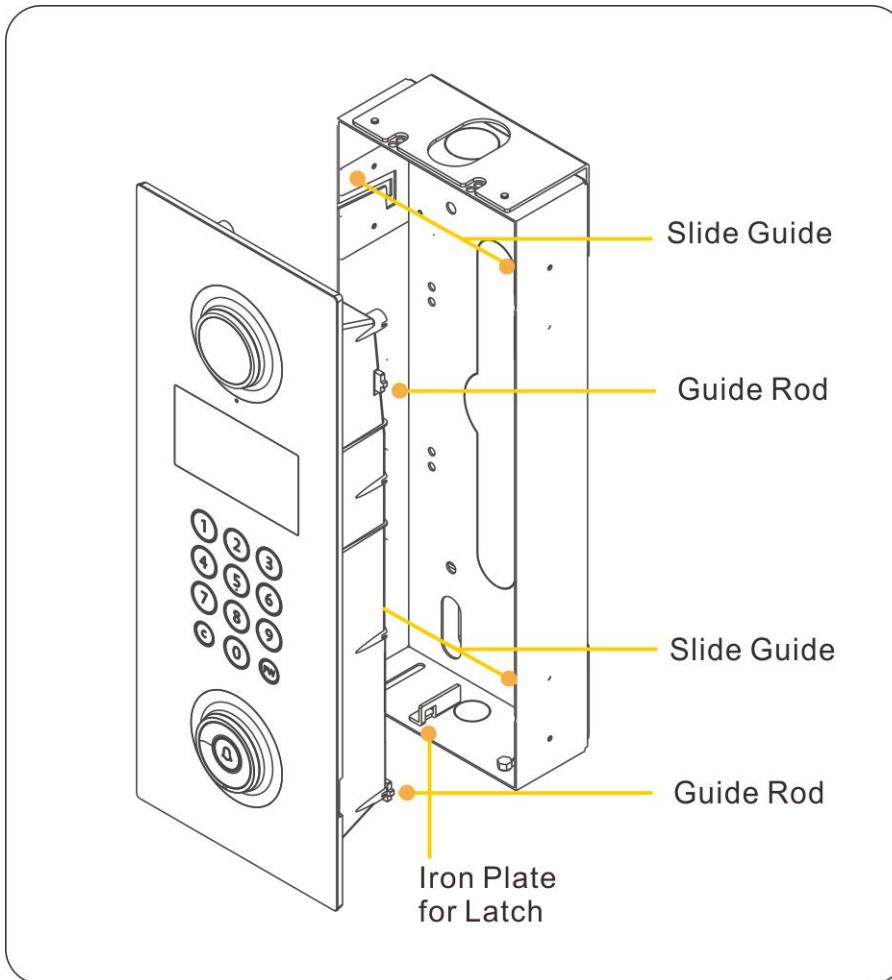


Figure 19: Install DP3010R Main Unit onto Wall Mounting Box

Now DP3010R is ready to be installed on wall mounting box. Please follow the steps below to install DP3010R onto wall mounting box to complete installation.

1. Make sure that the latch on the rear side is at the right position and would not bump into Iron Plate for Latch.
2. Carefully lift up the DP3010R Main Unit and align it to wall mounting box.
3. Smoothly let upper Guide Rod and lower Guide Rod slide into both Slide Guide and firmly push DP3010R Main Unit toward the wall.
4. Push down DP3010R Main Unit and secure it on the wall.

**NOTE:** The protective cover on the DP3010R should not be removed during DP3010R installation. Do not remove the protective cover until new residents move in the house.

## Lock DP3010R on the Wall

Please follow the steps below to lock DP3010R main unit onto wall mounting box to complete installation.

1. Use "**Fixing Tool**" and insert it in the gap between DP3010R main unit and wall mounting box.
2. Move the "**Fixing Tool**" to push Slide Latch to lock the DP3010R main unit on wall mounting box.
3. Remove "Fixing Tool".

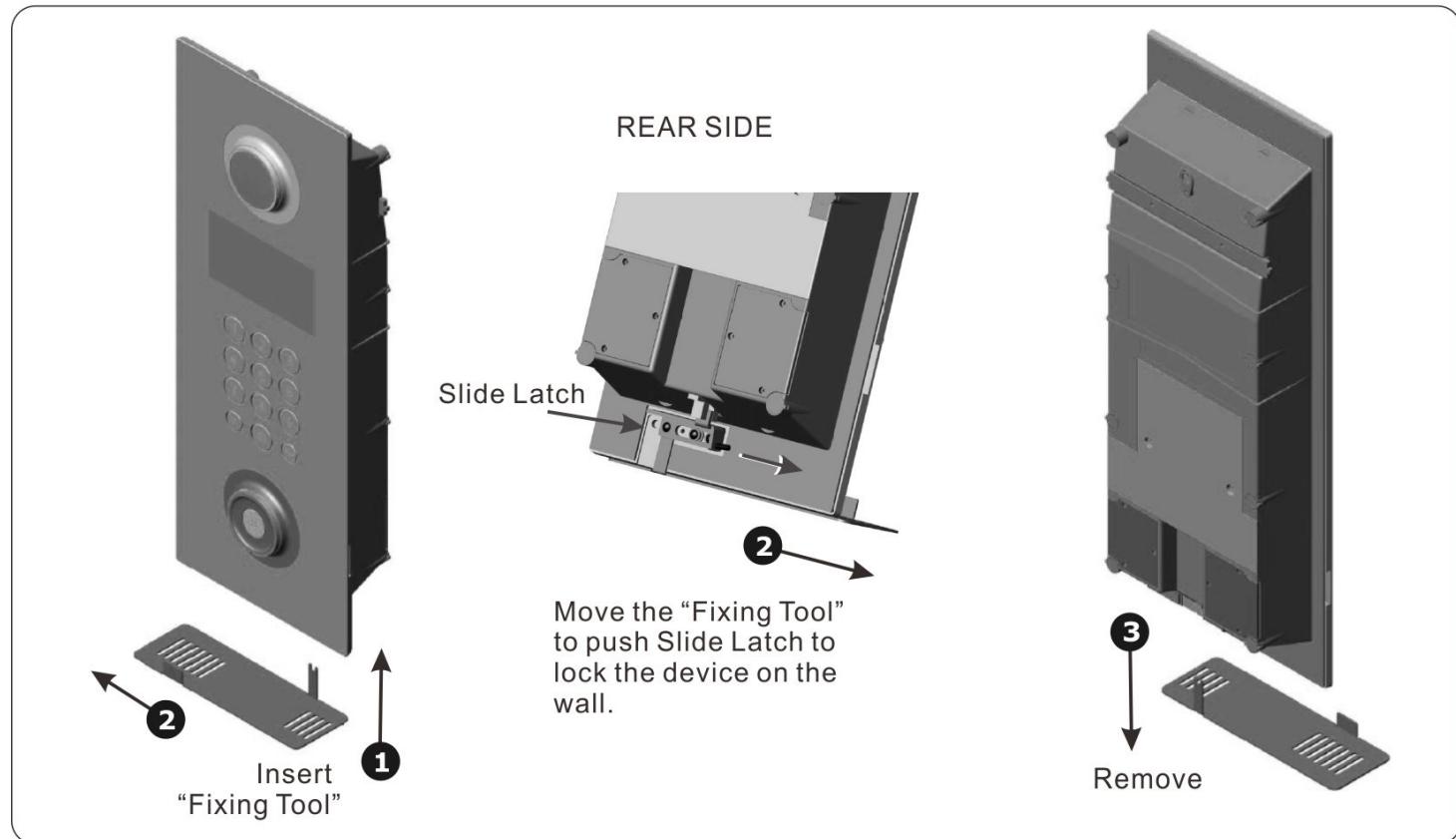


Figure 20: Install DP3010R Main Unit onto Wall Mounting Box

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# Chapter 4 : Uses of the Door Panel

## Access the Building or Community

A visitor can connect to a specific apartment by typing a part of the resident's address. A visitor can also directly connect with the security guard of the building by pressing the door bell button.

A resident can access the building or community by typing a password. (The password is provided by the community management to each tenant). A resident can open door by scanning an RFID card.

We conclude that there are 4 ways to access the building or community via DP3010R:

- **Connect an Apartment by Typing Resident's Address**
- **Connect the Security of the Building by pressing Door Bell Button**
- **Enter Password to Open the Door**
- **Scan a RFID card to Open the Door**



Figure 21: Use of the Door Panel

## Basic and Important Operation

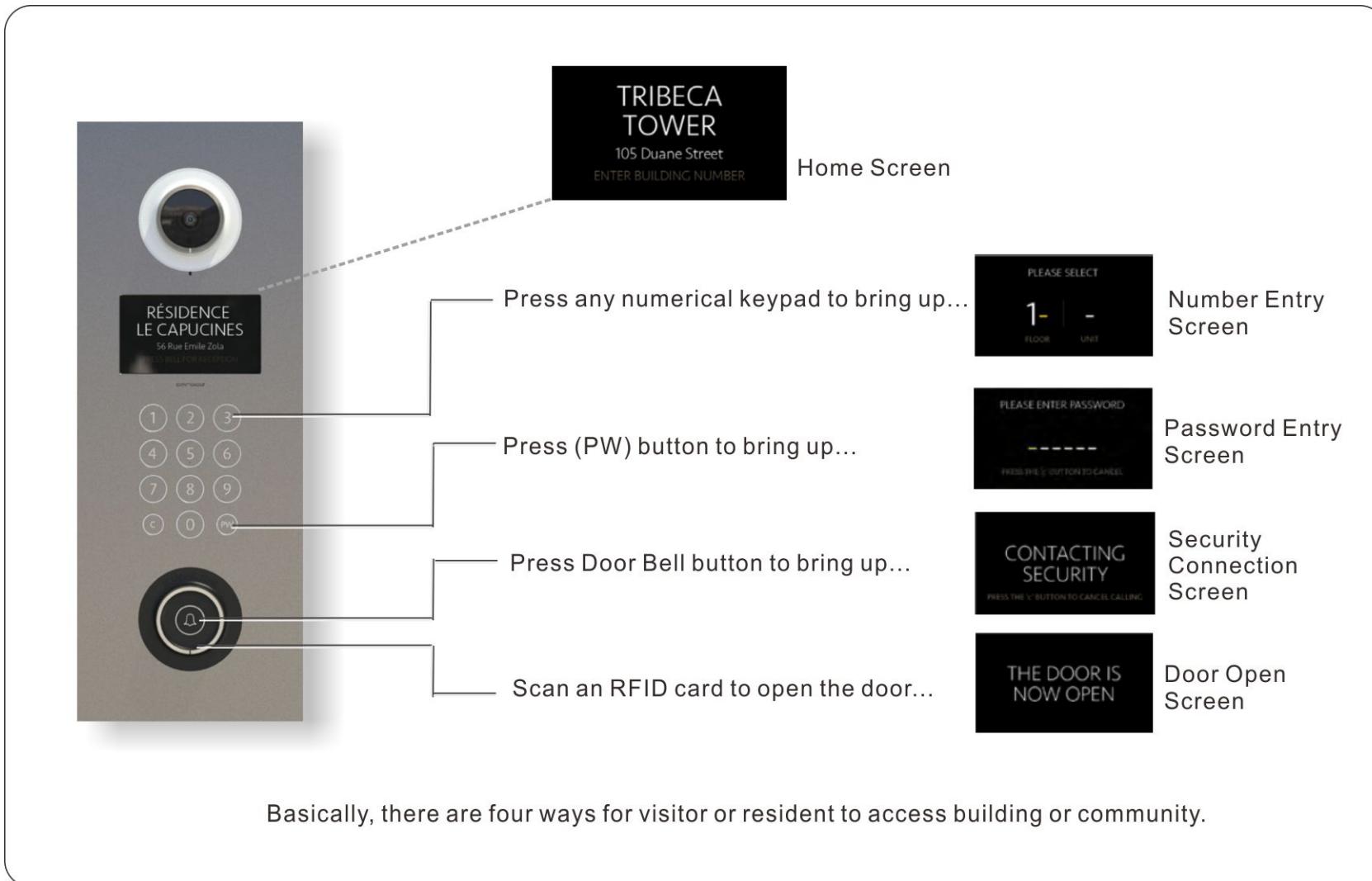
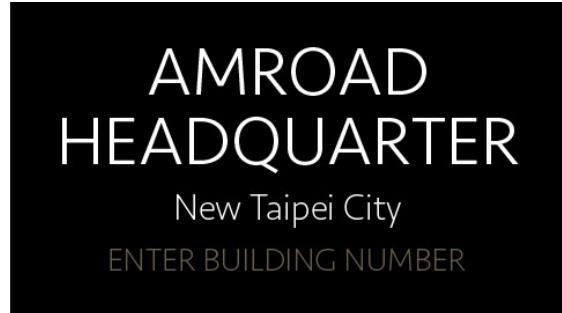


Figure 22: Basic and Important Operation of DP3010R

## System Boot

	DESCRIPTION	SCREEN
System Boot-Up	<p>When system is being initialized, a percentage will be displayed for the management staff and for explaining that system is running.</p>	 <p>AMROAD LOADING 0%</p>
	<p>The time for System Boot-Up is around 40 seconds. When the System Boot-Up is completed, "Home screen" appears.</p> <p>0%-&gt;20%-&gt;40%-&gt;60%-&gt;80%-&gt;100%-&gt;Home Screen</p>	 <p>AMROAD LOADING 100%</p>

	DESCRIPTION	SCREEN
Home Screen	<p>The Home Screen of the DP3010R may be the picture of your community or text image.</p> <p>The information block will display the text "<b>ENTER BUILDING NUMBER</b>" and "<b>PRESS BELL FOR RECEPTION</b>" in turn on the lower part of the Home Screen.</p> <p><b>NOTE:</b> 1. By default, the language is English. You can select <b>English</b> or <b>Traditional Chinese</b> on <i>Basic</i> page of System unit in Chapter 5.</p> <p><b>NOTE:</b> 2. To upload your Home Page image onto DP3010R, you can upload the image through WEB UI. (Please refer to <b>Home Page Image</b> function on <b>Config</b> page of <b>Upgrade</b> Unit Configuration in <b>Ch5.</b>)</p>	 <p>Text Image</p>

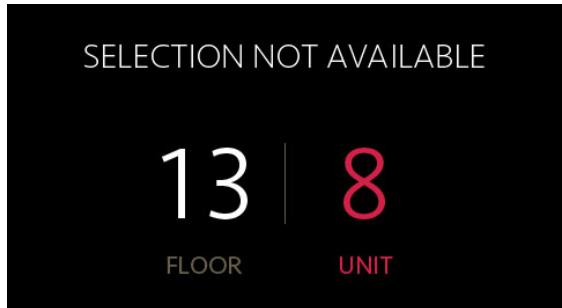
## LCD Screens for Visitor and Resident Operation

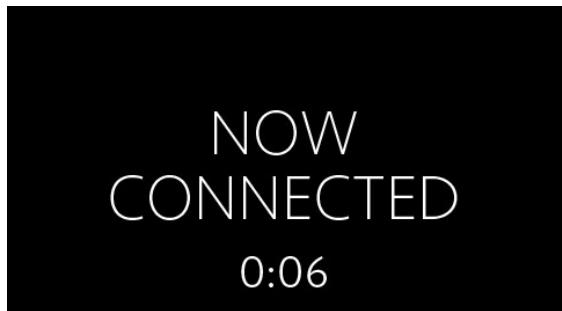
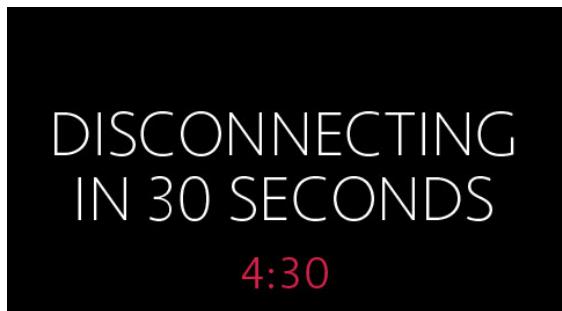
	DESCRIPTION	SCREEN
Password Entry Screen		
Password Entry Screen	<p>On Home Screen, if the <b>(PW)</b> button is pressed, the Password Entry Screen will appear for resident to enter his own password to open the door.</p> <p>NOTE 1: This Password function needs to work with Amroad <b>ICMS (Intelligent Community Management Server)</b>.</p> <p>NOTE 2: Password Entering Screen can be Disabled or Enabled through WEB UI.</p>	
	<p><b>Password Correct</b></p> <p>If the user has input 6 digits correctly, when he presses the last correct button the starts will become all yellow.</p> <p>The system will open the door and present the Door Open Screen.</p>	

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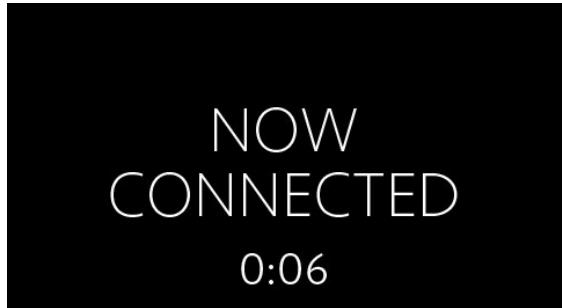
	DESCRIPTION	SCREEN
	<p>System will open Electronic Door Lock (open door), and “THE DOOR IS NOW OPEN” is displayed on the Screen.</p>	
	<p><b>Password Incorrect</b></p> <p>If the user has input 6 digits and one of them is not correct, when he presses the last button the stars will become all red.</p> <p>The screen will return to Password Entry Screen.</p> <p><b>NOTE:</b> While inputting password, you can press <b>(C) button</b> to delete wrong digit that you have just input. Or press <b>(PW) button</b> to delete all digits that you have input.</p>	
<b>RFID Entry Screen</b>		

	DESCRIPTION	SCREEN
	<p><b>Card Accepted</b></p> <p>Scan an authorized RFID card on SCANNING ZONE. If the system accepts the card, the screen will appear "THE DOOR IS NOW OPEN" and the system will open the door.</p> <p>NOTE: There will be the sound of "<b>Bi! Bi!</b>" from speaker if the system accepts the card.</p>	
	<p><b>Card Not Accepted</b></p> <p>If the card is not accepted, the screen will appear "CARD NOT ACCEPTED."</p> <p>NOTE: There will be the sound of "<b>Bi! Bo!</b>" from speaker if the system does not accept the card.</p>	

	DESCRIPTION	SCREEN
<b>Number Entry Screen</b>		
	<p><b>1. Enter Address Number</b></p> <p>On Home Screen, if any of the numerical keypads is pressed, the Number Entry Screen will appear for visitors to enter address number to connect a specific apartment.</p> <p><b>"C" Button</b></p> <p>Pressing the "C" button will delete the last entered digit in the field. After deleting the last digit, the screen will return back to the Home Screen.</p> <p>NOTE: Press "C" button for 2 seconds to delete all digits that you have inputs on the screen.</p>	<p>PLEASE PRESS THE BELL TO CALL OR PRESS 'C' TO DELETE</p>  <p>13   6</p> <p>FLOOR      UNIT</p>
	<p><b>Error Notice (Not Available)</b></p> <p>The number (digit) will become red number when you type in FLOOR or UNIT number that does not exist in the building. And, System will automatically delete the error digit.</p>	<p>SELECTION NOT AVAILABLE</p>  <p>13   8</p> <p>FLOOR      UNIT</p>

	DESCRIPTION	SCREEN
	<p><b>2. Pressing Door Bell</b></p> <p>After completing address number, visitor can press <b>Door Bell Button</b> to enter the address number to connect desired apartment.</p> <p>Text "AWAITING RESPONSE" will be displayed on the screen. Please wait for system to connect to your desired apartment.</p>	 <p>AWAITING RESPONSE</p> <p>PRESS THE 'c' BUTTON TO CANCEL CALLING</p>
	<p><b>3.Connection (on Conversation)</b></p> <p>When the Video Door Phone DP3010R is connected, the screen shows as right picture "Now Connected".</p> <p>The time will appear on screen for first 6 seconds, and the time disappears until 4:30. It appears again.</p>	 <p>NOW CONNECTED</p> <p>0:06</p>
	<p>Each conversation can last maximum 5 minutes (300 seconds).</p> <p>After 4:30, the LCD screen will prompt user "DISCONNECTING IN 30 SECONDS". The talking time will be ended within 30 seconds.</p>	 <p>DISCONNECTING IN 30 SECONDS</p> <p>4:30</p>

	DESCRIPTION	SCREEN
	At 4:50, the conversation (Connection) is going to be ended.	
	<b>4.Connection Ended</b>  NOTE: While DP3010R is connected, you can press “#” button on your IP Video phone/Video Indoor Station to open door. “THE DOOR IS NOW OPENED” screen will be displayed.	
	<b>Nobody Answers Phone Call</b>  If nobody answers the phone call after a period of time, “NO RESPONSE” screen will be displayed. You may press Door Bell button again to call again. For the second time nobody answers the phone call, the screen will turn to Home Screen.	
<b>Security Connection Screen</b>		

	DESCRIPTION	SCREEN
	<p><b>Pressing Door Bell Button</b></p> <p>On Home Screen, if the <b>Door Bell Button</b> is pressed, the screen will appear “CONTACTING SECURITY” and allow visitor(s) to directly connect Security Management of the building (or the community).</p>	
	<p><b>Connection (on Conversation)</b></p> <p>When the Video Door Phone DP3010R is connected, the screen shows as right picture “Now Connected”.</p> <p>The time will appear on screen for first 6 seconds, and the time disappears until 4:30. It appears again.</p>	
	<p><b>Connection Ended</b></p> <p>NOTE: While DP3010R is connected, you can press “#” button on your IP Video phone/Video Indoor Station to open door. “THE DOOR IS NOW OPENED” screen will be displayed.</p>	

	DESCRIPTION	SCREEN
	<p><b>Nobody Answers Phone Call</b></p> <p>If nobody answers the phone call after a period of time, "NO RESPONSE" screen will be displayed. You may press Door Bell button again to call again. For the second time nobody answers the phone call, the screen will turn to Home Screen.</p>	 A black rectangular screen with the words "NO RESPONSE" in large white capital letters in the center. Below it, in smaller white capital letters, is the instruction "PRESS THE BELL BUTTON TO CALL AGAIN".

NOTE: Each conversation can last maximum 5 minutes (300 seconds).

## System Out OF ORDER

Out Of Order		
	<p>The system will display different "Out Of Order" messages to help the building management staff to identify the cause of the problem.</p> <p>The message may includes:</p> <ul style="list-style-type: none"><li>● Device Malfunction</li><li>● Network Connection Has Been Lost</li><li>● Error Retrieving IP Address</li><li>● SIP Registration Failure</li></ul>	

## System Management Screens

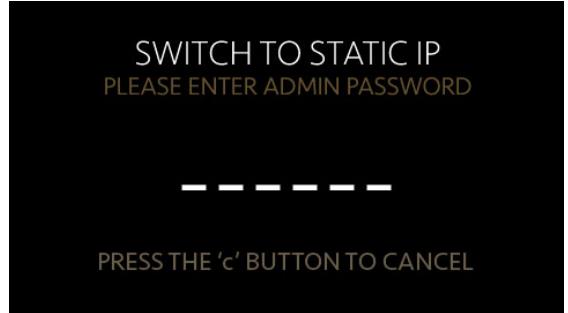
To bring up System Management Screen, building management (or community management) press and hold **(PW) button** on Home Screen for **10 seconds**.

There are four functions included in the System Management Screen:

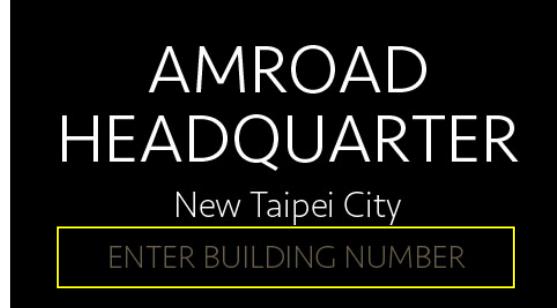
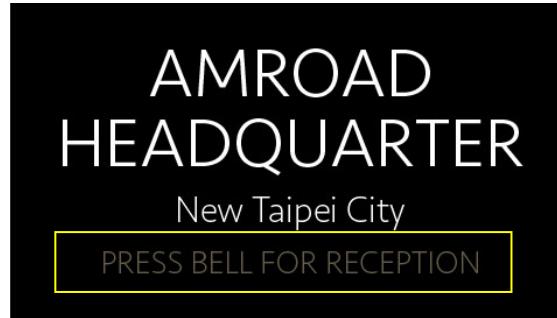
- 1. to Display IP & MAC Address**
- 2. to Reset Device**
- 3. to Switch to Static IP**
- 4. Enable Alarm Sensor (Hidden Feature)**

	DESCRIPTION	SCREEN
<b>System Management Screen</b>	<p>To bring up System Management Screen, just press and hold <b>(PW)</b> button for 10 seconds.</p> <p><b>NOTE:</b> 1. Press numerical keypad <b>1, 2, or 3</b> to bring up further management screen. Or, you can press keypad <b>4</b> to enable Alarm Sensor (Hidden feature without display screen.)</p> <p>2. By default, Alarm Sensor is disabled. You need to enter System Management Screen to enable it by pressing keypad <b>4</b>.</p>	<p>SYSTEM MANAGEMENT SELECT A NUMBER OR PRESS 'c' TO CANCEL</p> <p>1 to DISPLAY IP &amp; MAC ADDRESS 2 to RESTART DEVICE 3 to SWITCH TO STATIC IP 4 to ALARM SENSOR</p>

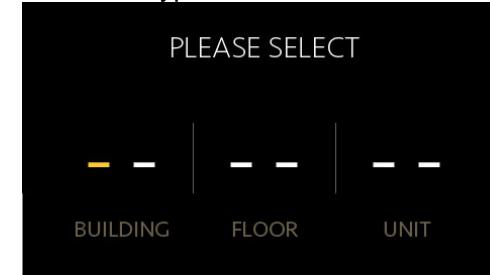
	DESCRIPTION	SCREEN
<b>IP Address Display Screen</b>	From System Management Screen, press numerical keypad <b>1</b> will bring up Display IP Address screen.	 <p>10.3.1.118 AA:BB:CC:DD:EE:FF CURRENTLY IN P2P MODE</p>
<b>Device Restart Screen</b>	<p>From System Management Screen, press numerical keypad <b>2</b> will bring up Device Restart Password screen.</p> <p>Enter 6-digital admin password to restart DP3010R or press <b>(C)</b> button to exit.</p> <p><b>NOTE:</b> The default password is <b>123456</b>. You may change the password on Upgrade page of Upgrade Unit in Ch5.</p>	 <p>DEVICE RESTART PLEASE ENTER ADMIN PASSWORD - - - - - PRESS THE 'c' BUTTON TO CANCEL</p>

	DESCRIPTION	SCREEN
	After you have entered 6-digital correct password. The system is ready to reset DP3010R.	 ABOUT TO RESTART
<b>Switch to Static IP</b>		
	<p>From System Management Screen, press numerical keypad <b>3</b> will bring up SWITCH TO STATIC IP Password screen.</p> <p>Enter 6-digital admin password to switch to static IP (<b>192.168.0.50</b>) or press <b>(C)</b> button to exit.</p> <p><b>NOTE:</b> The default password is <b>123456</b>.</p> <p>You may change the password on Upgrade page of Upgrade Unit in Ch5.</p>	 SWITCH TO STATIC IP PLEASE ENTER ADMIN PASSWORD ----- PRESS THE 'c' BUTTON TO CANCEL
	<p>After you have entered 6-digital correct password. This screen will be displayed when system is ready to restart.</p> <p><b>NOTE:</b> After restarting the device, the Home screen remains the same, but the IP address is changed to Static IP.</p>	 ABOUT TO RESTART

## Have Your Own Home Screen via Web UI

	DESCRIPTION	SCREEN
Format of Home Screen		
<p>The Home Screen of the DP3010R may be the picture of your community or text image.</p> <p>To have your own Home Screen, please prepare an image in the size of <b>480x272 pixels</b> and <b>format of JPG</b>. (It is suggested that black background would have better visual effect.) The name of the file should be <b>IMG_480x272_background.jpg</b>.</p> <p>To upload Home Page image onto DP3010R, you can upload the image through WEB UI. (Please refer to <b>Home Page Image</b> function on <b>Config</b> page of Configuration in <b>Ch5</b>.)</p> <p>The information block will display the text "<b>ENTER BUILDING NUMBER</b>" and "<b>PRESS BELL FOR RECEPTION</b>" in turn on the lower part of the Home Screen with the size of <b>480x84 pixels</b>.</p>	 	

## Number Entry Screen

4 Types of Number Entry Screen				
	<p>Type 1. Single Field</p>  <p>(Max. 4 digits)</p>	<p>Type 2. Two Fields</p>  <p>(Max. 2 digits, 2 digits)</p>	<p>Type 3. Three Fields</p>  <p>(Max. 3 digits, 2 digits, 2 digits)</p>	
	<p>Type 4. Four Fields</p>  <p>(Max. 2 digits, 2 digits, 2 digits, 2 digits)</p>	<p>There are four types of Number Entry Screens (Number Entry Screen type is configured through Web User Interface).</p> <p>For more information on how to configure Number Entry Screen, please refer to <b>Sample item on Configuration page of Update unit in Chapter 5.</b></p>		

## DP3010R RFID Card Usage

Residents scan RFID card on the SCANNING ZONE. DP3010R will verify the database to determine whether to Open door or not.

### Issue Master RFID Card First Time

Without any cabling, just scan RFID card on the DP3010R SCANNING ZONE when the DP3010R device 1<sup>st</sup> time on-line. The RFID card will be used as Master Card1.

**NOTE:** 1. Before using Master RFID Card, you need to enable **Add User Function by Master Card** on *RFID* page of *Entrance Setting* unit of WEB UI (User Interface) in CH5.

2. The Master Card is used for issuing new card, and it can NOT be used for opening door.

If you scan another RFID card instead of Master Card on DP3010R SCANNING ZONE for the first time, the first-time scanned RFID card will become RFID Master Card.

### Issue a New Card with Master Card:

Scan Master Card on DP3010R First.

Within 10 seconds, scan new RFID card on DP3010R, DP3010R will store new Card number Into Database.

The new RFID card is authorized and can be used to scan on RFID SCANNING ZONE and open door.

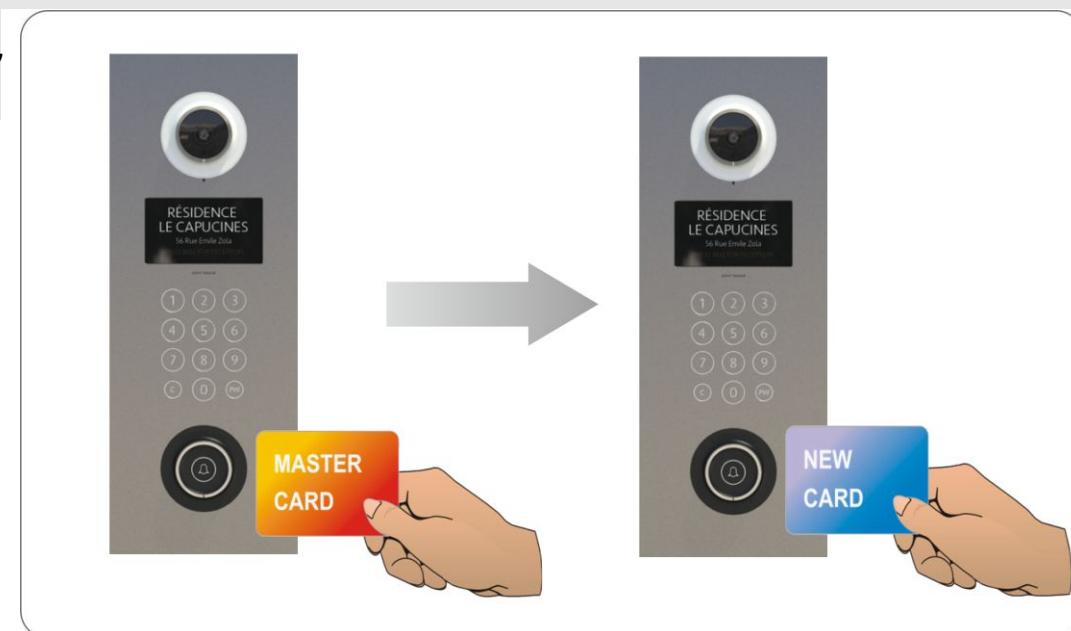


Figure 23: Issue a New RFID Card

MANUAL FOR SYSTEM INTEGRATOR

# Chapter 5 : Configuring Video Door Phone

## Finding Video Door Phone on Networks

The default connection type setting of the Video Door Phone is “**DHCP Client**”, it is a typical network mode. There is a software utility provided by your local distributor or local dealer which is able to help you to find your Video Door Phone when using dynamic IP address. Please execute following utility:

### AmRoad Search Tool.exe

You will see a window pop up on screen. This utility will search whole network segment automatically when utility is activated, then it will show search results. You may press the “**Search**” button to search again. The search result includes following elements:

- **MAC Address:** This MAC is a unique number that provided by manufacturer.
- **IP Address:** Here shows the IP address of found Devices (Video Door phone).
- **Device Name / Device Type:** Here shows which type of devices are found. For example, you may find Video Door Phone/ IP Video Phone in the same network.

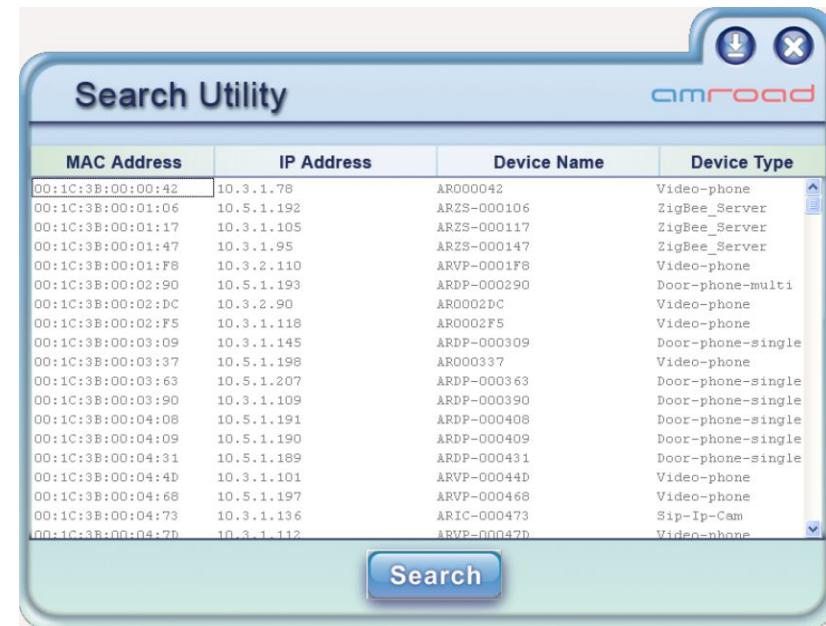


Figure 24: Search Tool- Search Utility

## Entering Web User Interface

Input the **IP address** of this product on your browser, then you will see home page of the Video Door Phone appearing.

Web UI is protected by Login ID and Password. Press the “**Login**” button, then you will see input fields: **Login ID** and **Password**.

Please key in the correct ID and password, and then press second “**Login**” button to enter Web UI. The default ID and password are:

**Login ID: admin**

**Password: admin**

**NOTE :** 1. While configuring WEB UI (User Interface), please do not operate this product so as to prevent this product being out of order.  
2. Do not input special symbols “, \, and & in the fields on the WEB UI. Otherwise, you will fail to save your setting normally.  
3. After configuring some Web pages and pressing “SAVE” button, you need to wait a little longer for system to save the configuration.

This chapter describes how to configure your DP3010R with Web User Interface. It contains advanced settings that may help you to solve certain compatibility issues with your services. This UI also provide remote management capability to service provider.

There are 5 units and total 13 pages:

- **System**
  - Basic**
  - Network**
  - Login Name**
  - Reboot**
- **Streaming Settings**
  - Video**
  - Audio**
- **SIP Settings**
- **Entrance Settings**
  - Extension**
  - GPIO**
  - RFID**
- **Upgrade**
  - Upgrade**
  - Config**
  - APS**

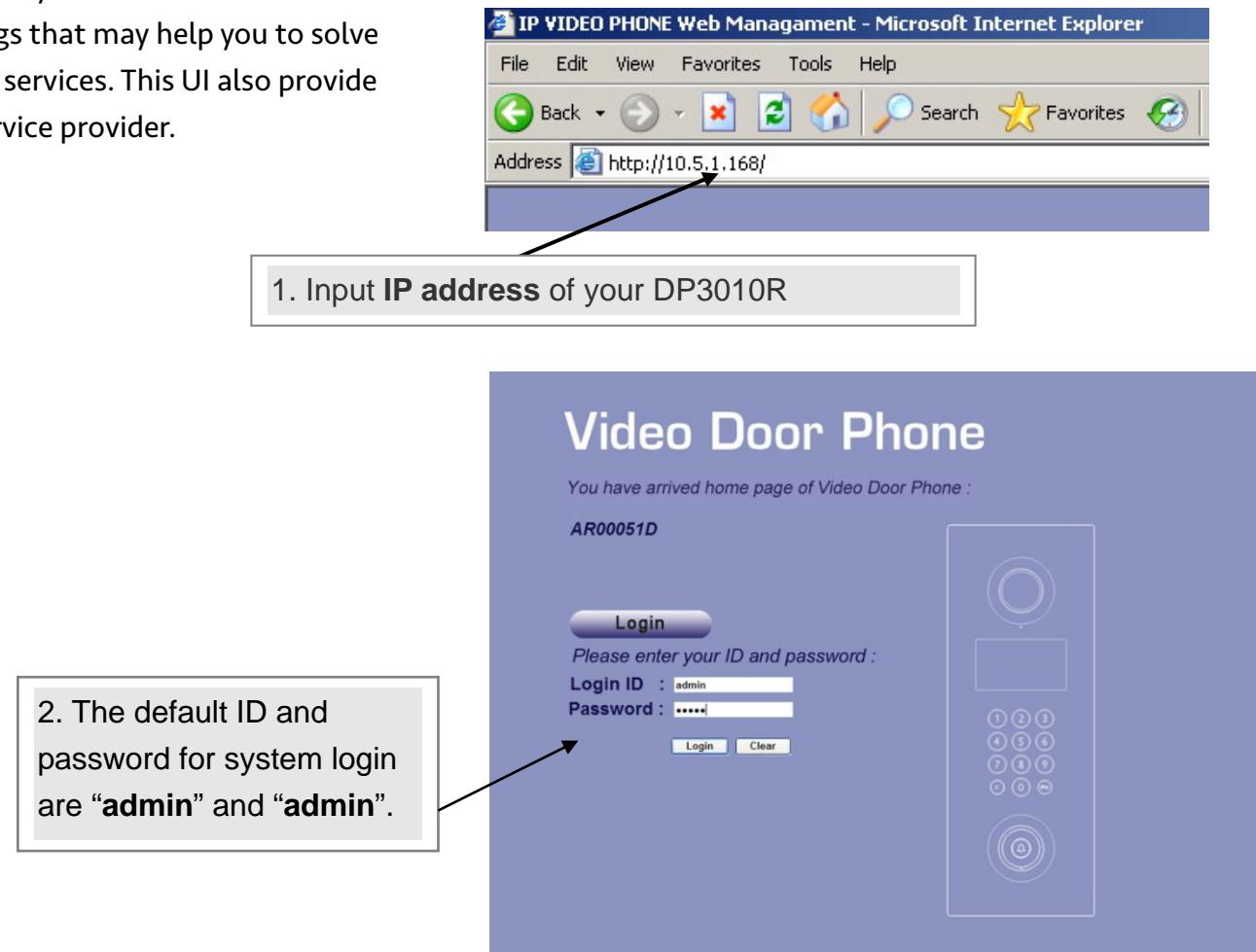


Figure 25: IP address and Login

## System - Basic Settings

Item	Description
<b>Device ID</b>	This ID is a unique number that assigned by manufacturer.
<b>Device Name</b>	The field allows user to give a specified name for identification such as "Door Phone 3010R".
<b>Date &amp; Time</b>	Here shows date and time set on this video door phone.
<b>Set New Time and Date</b>	These fields allow user to set correct date and time according to the local-standard. You may synchronize phone time to match your PC by pressing " <b>Sync with PC</b> " button.
<b>Date Format</b>	You can select preferred date format at this field. There are 2 formats available: YYYY/MM/DD, and MM/DD/YYYY.
<b>Time Zone</b>	This field allows you to select your time zone to fit your location. You can enable the <b>Daylight-Saving</b> feature if needed.  NOTE: Daylight Saving Time is a way of getting more light out of the day by advancing clocks by one hour during the summer.
<b>Network Time Protocol</b>	Enable <b>NTP Calibration service</b> to allow the system to calibrate the time with NTP server through Internet.
<b>NTP Server Address</b>	You may use your preferred NTP server by input new address here.



Figure 26: System - Basic Settings

<b>Calibration Schedule</b>	You may select the time that you wish to do this NTP calibration.
<b>Sleep Mode</b>	<p>This feature lets you set the time period of lighting in order to save energy and protect your LCD screen.</p> <p><b>Service:</b> Enabled by Timer or Enable by Period.</p> <p><b>Enabled by Timer:</b> You can select idle timer 5, 10, 30, 60 Mins.</p> <p><b>Enabled by Period:</b> <b>Start Time:</b> Select starting time of lighting.  <b>End time:</b> Select ending time of lighting.</p> <p>NOTE: While setting Start Time and End Time, <b>Start Time</b> should be earlier than <b>End Time</b>.</p>
<b>Device Location</b>	The field allows user to give a device location for identification such as "East Building".
<b>Language</b>	<p>Select the language "<b>English</b>" or "<b>Traditional Chinese</b>" to be displayed on your DP3010R LCD GUI.</p> <p>NOTE: The language displayed on LCD Screen can be selected and changed by selecting "<b>English</b>" or "<b>Traditional Chinese</b>"</p>
<b>Save</b>	Click this button to save your setting.

## System – Network Settings

Item	Description
<b>MAC Address</b>	This is a quasi-unique identifier attached to most network adapters.
<b>IP Type</b>	<p>The default value is DHCP Client. There are three options: DHCP Client, Static IP and PPPoE.</p> <p>A. <b>DHCP Client:</b> The system will automatically assign you an IP address.</p> <p>B. <b>PPPoE:</b> This allows you to set Internet connection with <i>User Name</i> and <i>Password</i>.</p> <p>NOTE : For PPPoE connection mode, we suggest that bandwidth-128kbps would have better video quality.</p> <p>C. <b>Static IP:</b> you have to input <i>IP address</i>, <i>Subnet Mask</i>, <i>Default Gateway</i>, <i>Primary DNS</i> and <i>Secondary DNS</i> data.</p>
<b>DHCP</b>	VendorClassID will fill in "ARTE_VDPH". (Engineering using).
<b>Save</b>	Click this button to save your setting.



Figure 27: Network Settings

## System - Login Name

### System Login Name

The default ID and password for system login are **admin** and **admin**.

User may change his Login ID and Password on the webpage by entering new Login ID and Password.



Figure 28: Login ID

### System Reboot

When user needs to reboot DP3010R remotely, just click “**Reboot**” button on this webpage to start this action. After confirm rebooting, Web User Interface will back to the home page, but the video door phone may take 30~60 seconds to restart its system.

**NOTE:** DO NOT operate the DP3010R while system is rebooted (reset).



Figure 29: Reboot

## Streaming Settings – Video

You may set change the video settings in this page.

Item	Description
<b>Bandwidth</b>	You may select preferred bandwidth for video and audio streaming. There are 4 options: 128Kbps, 256Kbps, 384Kbps, and 512Kbps. Please check which bandwidth is suitable for you with your service provider. Default setting is 256Kbps.
<b>Codec Priority-</b>	<b>First</b> – You may select the Video streaming priority - H.263
	<b>Second</b> – You may select the Video streaming priority - H.263, or Disable.
<b>RTP Port</b>	This field allows you to set a range of port numbers for RTP ports. Start Port Number. Total available ports are from 1024 to 65531. You may select a start port number. The default value of Start Port Number is <b>9000</b> .
	You may select a start port number and set a range from that port. The range is between 4 and 64511. The default value of range is <b>100</b> .
<b>Power Line Frequency</b>	You may select the power frequency according to your local power specifications. Wrong power frequency may cause the video flicking abnormally. Default setting is 60Hz.



Figure 30: Video Setting

<b>CMOS Static Brightness</b>	This item allows you to adjust the brightness of CMOS according to the lighting environment of the installed location. Higher value makes the video brighter.
<b>CMOS Color Balance</b>	<p>This item allows you to adjust the color of video. Select according to the lighting environment: Fluorescent Light, Yellow Lamps and Orange Lamps.</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Fluorescent Light – This condition is suited for white lighting environment.</li> <li>Yellow Lamps – This condition is suited for indoor yellow bulb environment.</li> <li>Orange Lamps – This condition is suited for indoor orange color or more red color environments.</li> </ul>
<b>Save</b>	Click this button to save your setting.

**NOTE:** If DP3010R can't get the correct value of the CMOS brightness in some environment, please adjust the brightness value via the Videophone by pressing "2"(brighter) or "8"(darker) in conversation state, or pressing "5" to turn on/off WL LED by yourself.

## Streaming Settings - Audio

ITEM	Description
<b>Code Priority</b>	You may select the Audio streaming priority – <b>G.711</b> .
<b>Scene</b>	Select Disable, Enable or User Define.  When “ <b>User Define</b> ” is selected, the following two items appears:  <b>Noise Threshold (db):</b> Default: -40. The voice intensity that is lower than the value (-40db) will be neglected. (Acceptable value -40~ -52) <b>Target Level (db):</b> Default: -23 The voice intensity that is around normal intensity will be processed to be the value (-23db). (Acceptable value -20~ -32)
<b>VAD</b>	You may enable or disable <b>Voice-Active-Detection</b> function here. The DP3010R will detect background noise and send silence packet to the other end if this feature is enabled. This allows called party to hear better audio quality.
<b>CNG</b>	You may enable or disable <b>Comfortable-Noise-Generate</b> function here. The DP3010R will generate background noise when receiving silence packet from the other end if this feature is enabled. This allows called party to hear better audio quality.
<b>Speaker Volume</b>	This item allows you to select volume of speaker. There are 10 levels, 0 ~ 9.
<b>Save</b>	Click this button to save your setting.



Figure 31: Audio Setting

## SIP Settings

You may setup advanced SIP service parameters in this page:

Item	Description
<b>Authentication</b>	
<b>Display Name</b>	This name will show on the IP phones of called parties. You can fill in the preferred name here. For example, <b>Doorphone</b>  NOTE: Please enter <b>Doorphone</b> in the field of Display Name. When Door Bell is pressed, there will be "Preview" function and "Ding-Dong" sound on Amroad IP Video Phone/Video Indoor Station.
<b>User Number</b>	You may fill in the phone number here, normally it is provided by service provider. To work with IP PBX, you may fill in extension number. For example, 524
<b>Account ID</b>	You may fill in your account name of SIP service in this field. For example, 524
<b>Account Password</b>	You may fill in the password of your SIP service account. For example, 524
<b>SIP Proxy Server</b>	
<b>Service</b>	You may select "Enable" or "Disable" the SIP Proxy Server in the dropdown menu.

Figure 32: SIP Settings

	<p>NOTE: For <b>Peer-to-Peer</b> mode, both devices (DP3010R and remote device) need to select <b>Disable</b> in the dropdown menu. And, fill in each other's IP address.</p>
<b>IP Address</b>	<p>You may fill in the IP address of SIP Proxy Server in this field.</p> <p>NOTE: For <b>Peer-to-Peer</b> mode, user needs to input IP address of the Remote device.</p>
<b>SIP Registrar Server</b>	
ITEM	Description
<b>IP Address</b>	You may fill in the IP address of SIP Registrar Server here.
<b>Registration Expire Time</b>	<p>Set the time for SIP registration authorization The default is 3600 seconds.</p>
<b>Protocol</b>	<p>You may select network communication protocol of the SIP service here. There are 2 options: UDP and TCP. NOTE: Default setting is <b>UDP</b> protocol.</p>
<b>Session Timer (0~1800)</b>	<p>You can set the session timer here. The range is from 0 to 1800 seconds. Default is 0 second.</p>
<b>Media Timer (0~180)</b>	<p>This setting allows your video door phone to force release automatically a conversational call when your phone doesn't receive any media packets from the remote side during a period of time.</p> <p>NOTE: If you want to disable this feature, please fill in "0" sec.</p>
<b>No Answer Timer</b>	<p>When visitor presses the door bell and no one answer the call, the DP3010R will wait for a time period before "No Response" screen is displayed. You may select the time period- <b>20sec, 30sec, 45sec, or 60sec</b>. Default is <b>20</b> seconds.</p>

	NOTE: 1. The setting should be based on your IP PBX.
<b>ICMS</b>	Input the IP address of ICMS. This function is customized and it allows DP3010R to send pictures of visitors to ICMS.
<b>Save</b>	Click this button to save your setting.

# Entrance Settings - Extensions

You may configure call services in this page:

ITEM	DESCRIPTION
<b>Called Party Extension Number</b>	<p>Fill in the extension number. When Door Bell button is pressed, the device will dial to the extension number. (The extension number or group that is assigned by IP PBX.)</p> <p><b>NOTE:</b> In the Peer-to-Peer mode, you need fill in the complete extension number and IP address. e.g. 102@10.3.1.128</p>
<b>Called Out Extension Number</b>	<p>Fill in the extension number. When ALARM is occurred, the device will dial to the called party extension number. (The extension number or group that is assigned by IP PBX.)</p>

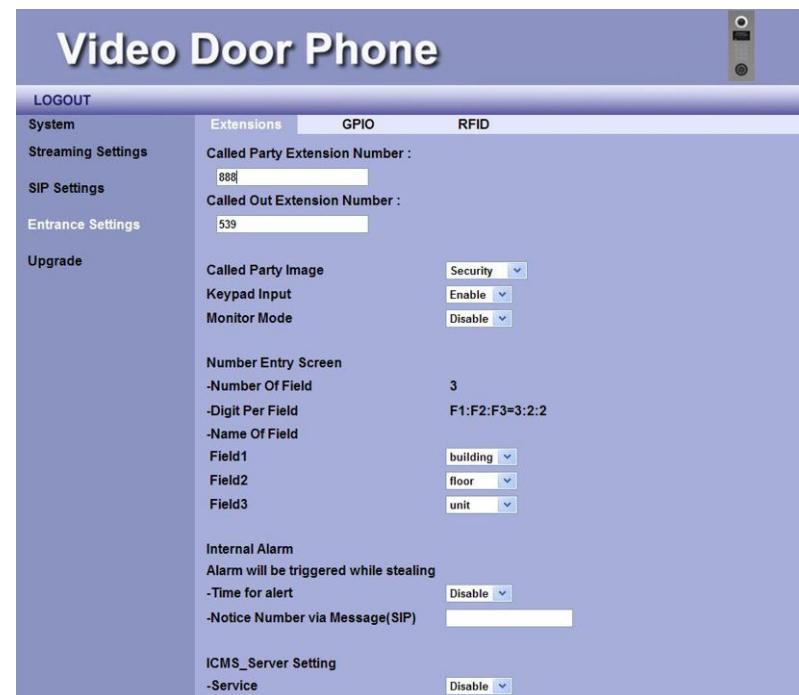


Figure 33: Extensions

<b>Called Party Image</b>	<p>There are three options: <b>Security</b>, <b>Reception</b>, and <b>Concierge</b>. The selected item will be displayed on the LED screen when the door bell is pressed. The default is Security.</p>	
<b>Keypad Input</b>	<p>This item allows you to enable/disable Keypad Input Function by selecting Enable/Disable in the drop-down menu.</p>	
<b>Monitor Mode</b>	<p>Select Enable/Disable Monitor Mode. If Monitor Mode is enabled, resident can dial the extension number of the DP3010R to view</p>	

	live outdoor video without changing LCD screen.
<b>Number Entry Screen</b>	
<b>Number Of Field</b>	This field shows the number of fields (columns) on DP3010R LCD Number Entry Screen.
<b>Digit Per Field</b>	It displays the number of digits on each field (column) on DP3010R LCD Number Entry Screen.
<b>Name Of Field</b>	These allow you to select the name ( <b>Building, Stairway, Floor, or Unit</b> ) for individual Field 1~4. The result will be shown on DP3010R LCD Number Entry Screen.
<b>Internal Alarm</b>	
<b>Alarm will be triggered while stealing</b>	This is a "Burglarproof" function. Please disable this function when the device is not ready or during the device is repaired.
<b>Time for Alert</b>	You can enable or disable the function of "Alarm will be triggered while stealing". Select Disable/3 Min/Always for the time period of alarm sound when the alarm is triggered.
<b>Notice Number via Message (SIP)</b>	You may fill in the Video phone number here. The device will inform the Video Phone when the internal alarm is triggered.
<b>ICMS_Server Setting</b>	
Amroad ICMS (Intelligent Community Management Server)	
<b>Service</b>	You can enable or disable the function of ICMS_Server Setting.
<b>Notice ICMS IP</b>	Enter the IP address of ICMS Server. ICMS will receive the message when Internal Alarm is triggered.
<b>Notice ICMS Port</b>	Enter the port number of ICMS Server. The default Port Number is 7778. ICMS will receive the message when Internal Alarm is triggered.

<b>Email Setting</b>	
DP3010R will take a picture after someone entering password, scanning RFID card, or nobody answering the Video Door Phone DP3010R. You can disable or enable the following three items for system to send email with picture.	
<b>Trigger By Password</b>	After someone enters password, DP3010R will take a picture. You can enable/disable the function for system to send email with picture.
<b>Trigger By RFID</b>	After someone scans RFID card, DP3010R will take a picture. You can enable/disable the function for system to send email with picture.
<b>Trigger By No Answer</b>	Nobody answers the DP3010R for a specific time period, DP3010R will take a picture. You can enable/disable the function for system to send email with picture.
System sending Email needs the related SMTP setting. SMTP is a relatively simple, text-based protocol. Input the valid account number and password for the SMTP.	
<b>SMTP server</b>	Host name or IP address of the SMTP server for notification. e.g. smtp.gmail.com
<b>SMTP port</b>	To specify the port of the SMTP server. If the field is empty, the default value is 25. The "smtp.gmail.com" port is 587.
<b>SMTP server Account</b>	Input SMTP server Account. NOTE: Just enter the <i>local-part</i> of the email address (ex, John123), and you don't need to enter the domain name (ex, @gmail.com)
<b>SMTP server Password</b>	Input SMTP server Password.
<b>TLS</b>	Set enable/disable for mail transmission that "Confirms Client to the Server identity" action is needed or not. TLS (Transport Layer Security) is a network protocol that ensures

	privacy between email servers on communicating applications.
<b>Mail To</b>	Input e-mail address which you want to send to.
<b>Save</b>	Click this button to save your setting.

## Entrance Settings – GPIO

You may configure GPIO in this page:

ITEM	Description
<b>CTRL 1 Service</b>	<p>CTRL 1 Service is used to control the CTRL 1 of Relay Board, and then connects to "Electronic Door Lock".</p> <p>The function can be triggered by the following ways.</p> <ul style="list-style-type: none"> <li>A. Using Registered RFID Card</li> <li>B. During conversation, you may press "#" keypad to open door.</li> <li>C. Press the button that connects to "Digit Input 2(DI2)" (Also refer to the description below)</li> </ul>
<b>Device Relay Output</b>	You can select Positive/Negative to connect to Positive/Negative- triggered Electronic Door Lock.
<b>Switch-on duration (sec)</b>	This item lets you set the time (seconds) for Relay Board (DO2) to open "Electronic Door Lock". The default is 3 seconds.
<b>DI1 Detect Sensor Type</b>	<p>There are two options: "High-&gt;Low", and "Low-&gt;High".</p> <p>You can select the voltage polar of digital input "High-&gt;Low" or "Low-&gt;High" for triggering.</p>



Figure 34: GPIO

<b>Press “#” to unlock by</b>	You can select the timer “Immediately”, “One Second”, or “Two Second”. Press the “#” key from IP Video Phone/Video Indoor Station to open “Electronic Door Lock” during answering the call.
<b>Unlock by RFID Password</b>	There are two options: <b>Disable:</b> Disable the function of using RFID Password to open Electronic Door Lock. <b>RFID Password:</b> Enter RFID password to open “Electronic Door Lock”.
<b>Trigger By Digit Input 2</b>	You can set the “Digit Input 2(DI2)” as a trigger point. You may select the voltage polar “ <b>Low (High-&gt;Low)</b> ” to “ <b>High (Low-&gt;High)</b> ”, or “ <b>Disable</b> ” for triggering.  NOTE: The DI2 (Digit Input 2) is used to connect Door Open Button. It depends on the types (open, short circuit) of Door Open Button to select “Low (High->Low)” or “High (Low->High)”.
<b>Ethernet</b>	Some trusted Ethernets can be set up as a trigger point. Please contact with the provider when you need more information. Or, you may disable this function.
<b>Save</b>	Click this button to save your setting.

NOTE: Be careful with the wires connection of GPIO, especially the default polar voltage of hardware (digit output pins) is high. Please select and set the related Electronic circuit to meet the hardware initial voltage.

## Entrance Settings -RFID

You can get the related RFID information and delete the issued RFID Cards here.

ITEM	DESCRIPTION
<b>Master Card1</b>	<p>This field will display the card number of the Master Card. By default, this field is null.</p> <p>This master card can issue new cards for the new tenants.</p> <p>By factory default, this field is null, you can scan a new RFID Card, and it can be set as Master Card.</p>
<b>Master Card2</b>	(Reserved)
<b>Adds User Function by Master Card</b>	<p>This item is to select Enable/Disable the master card for issuing new tenants.</p> <p>NOTE: If "Disable" is selected, user is unable to issue new card.</p>
<b>The Numbers of RFID Card User</b>	This field is used to display the number of RFID cards is issued currently.
<b>Save</b>	Click this button to save your setting.
<b>Export CSV File</b>	Click <b>Download</b> button to export CSV file to open or save the file <b>Card_No.csv</b> on your computer. All issued RFID cards from this Video Door Phone will be listed in the CSV file.



Figure 35: RFID

<b>Erase ALL RFID Cards Function</b>	This item is used to delete all RFID Card numbers. When “ <b>Enable</b> ” is selected, it allows user to erase all RFID card numbers or specific RFID card number. Press <b>Erase ALL RFID Cards</b> to delete all RFID Card numbers.
<b>Erase RFID Number</b>	You can input the specific issued RFID card number in the field and press <b>Erase RFID Card</b> to delete it.

NOTE: The method for issuing new cards:

A brand new card can be issued by scanning following the Master Card1 scanning during valid timer (10 seconds).

## Upgrade -Upgrade

This section allows you to upgrade firmware of DP3010R through network.

ITEM	DESCRIPTION
<b>Hardware Version</b>	This field shows hardware version number.
<b>Software Version</b>	This field shows current firmware version number.
<b>Select Target File</b>	You may press <b>Browser</b> button to pop up a <b>File</b> dialog box to select the location of the new firmware that you wish to upgrade.
<b>Upgrade</b>	After select the new firmware, you can press <b>Upgrade</b> button to start the upgrading. You will see progress bar showing the upgrade status.  <b>WARNING:</b> DO NOT turn off or disconnect the Ethernet cable during upgrade, for it may cause serious damage to this device.



Figure 36: Upgrade

<b>Restore Factory Default</b>	Press the <b>Restore Default</b> button and wait for system to restore its original factory default setting.  NOTE: If DP3010R restores to its original factory default setting, you will lose <b>previous setting</b> , <b>Number Entry Screen</b> (CSV File) data and <b>RFID log</b> , etc. But the Home Page Image will remain.
<b>Device Restart Password</b>	This field is used to set password protection for DP3010R Device Reset. Default Password is <b>123456</b> .
<b>Switch to Static IP Password</b>	This field is used to set password protection for device switching to Static IP ( <b>192.168.0.50</b> ). Default Password is <b>123456</b> .

# Configurations

Item	Description
<b>Import File</b>	User may press <b>Browse</b> button to select the location of the configuration file to import, which you may previously save to a local directory through the Export File option.
<b>Upload</b>	After selecting the configuration file, you can press <b>Upload</b> button to start the importing.
<b>Export File</b>	You can also use Export File to back up DP3010R settings on your computer.
<b>Download</b>	Press <b>Download</b> button to export, and you are prompted to click " <b>Open</b> " or " <b>Save</b> " for <i>NewConfiguration.xml</i> . If you click <b>Save</b> , the configuration file will be saved into a local directory.
<b>Home Page Image</b>	This item is used to upload your DP3010R LCD Home Page Image.  To upload image for LCD Home Screen, please prepare the image in the size of <b>480x272 pixels</b> and <b>format of JPG</b> . And, the name of the file should be <b>IMG_480x272_background.jpg</b> .  And, the file size should be less than <b>100KB</b> .
<b>Upload</b>	After selecting the LCD Home Page Image file, you can press <b>Upload</b> button to start the importing.



Figure 37: Configuration

<b>Remove</b>	Press <b>Remove</b> button to delete the image.																				
<b>Number Entry Configure</b>																					
<b>Sample</b>	<p>The Sample allows you to download an example file of four Number Entry Screens including one, two, three, and four columns address number.</p> <p>Before you download the sample for reference, let us introduce the CSV format for our Number Entry Configuration.</p> <div style="display: flex; align-items: center;"> <table border="1" style="margin-right: 20px;"> <thead> <tr> <th>name</th> <th>contact0</th> <th>contact1</th> <th>contact2</th> <th>contact3</th> </tr> </thead> <tbody> <tr> <td>801</td> <td>301</td> <td>07</td> <td>06</td> <td></td> </tr> <tr> <td>804</td> <td>301</td> <td>10</td> <td>08</td> <td></td> </tr> <tr> <td>805</td> <td>302</td> <td>14</td> <td>12</td> <td></td> </tr> </tbody> </table> <div style="flex-grow: 1;"> <p><b>Column Heading:</b> The Column Heading has fixed format and it is not changeable.</p> <p><b>name:</b> Enter extension numbers in this column.</p> <p><b>contact0~3:</b> corresponds to address numbers, and it has maximum 4 fields</p> <p><b>Number of Field:</b> This sample shows that there are 3 fields (columns) for address numbers.</p> <p><b>Number of Digit:</b> The first field has 3 digits. The second field has 2 digits.</p> </div> </div> <p>After CSV file is uploaded, select the name (<b>BUILDING</b>, <b>STAIRWAY</b>, <b>FLOOR</b>, <b>UNIT</b>) for individual field. Refer to <b>Entrance setting--&gt; Extensions</b>.</p>	name	contact0	contact1	contact2	contact3	801	301	07	06		804	301	10	08		805	302	14	12	
name	contact0	contact1	contact2	contact3																	
801	301	07	06																		
804	301	10	08																		
805	302	14	12																		

	<p>Press <b>Download</b> to open or save the file. The downloaded file illustrates the examples of establishing address number in one/two/three/four columns in the format of <b>CSV</b>.</p> <p>Establish all address numbers into the CSV file and import the file from the <b>Import</b> field.</p> <p><b>NOTE:</b> You may use Microsoft Office Excel (*.xls) to establish the file and saved as *.<b>csv</b> efficiently. Then, we suggest that you use WordPad (text editor) to modify the content. For example, "37, 7, 12," should be modified as "37, 07, 12,", and save the CSV file.</p>
<b>Export File</b>	Press <b>Download</b> button to export current LCD Number Entry Configuration file to your computer. The file name of the exported file is <i>contact.csv</i> .
<b>Import File</b>	Press <b>Upload</b> button to import your Number Entry Configuration file for LCD Number Entry Screen.  <b>NOTE:</b> If you use Notepad to edit the <i>contact.csv</i> file and find it fails to upload, please use <b>WordPad</b> to edit the file, save it as <i>contact..csv</i> , and upload it.

## APS

This webpage allows manufacturing factory to perform management function through APS (Auto Provision Server).



**Figure 38: APS**

Item	Description
<b>APS Upgrade</b>	Allow user to Enable/Disable the function. <b>APS: Auto-Provision Server.</b>  NOTE: The configuration is executed by manufacturing factory.
<b>APS URL</b>	IP address of APS server
<b>APS Port</b>	A port number that the phone uses to interact with APS server. Default is 21.
<b>APS Period</b>	A length of time that the DP3010R sends the upgrade request to APS server periodically. Default is 60 sec.

**NOTE:** It is suggested that only professional personnel is allowed to configure this webpage.

## Functions Performed by the IP-PBX (Compatible with Amroad IP-PBX)

**Simultaneous Ring** –The Distribution Policy is set to Ring All. e.g. When a visitor calls the group call (say extension 500), group members (say extensions 155, 157, and 166) will all ring simultaneously.

**Call Forwarding** – Enter a number to which incoming calls are forwarded when unanswered. The number could be an extension or a PSTN number with appropriate outbound prefix.

**E-Mail/Voicemail Notification** – IP PBX has a built-in voice mail subsystem with a sophisticated IVR menu. A call to an extension unanswered could be configured to enter voice mail recording procedure. After leaving a message, a notification e-mail will be sent to the user owns the extension with or without the message in the form of an attached WAV file.

The screenshot shows a user management interface with the following fields for user '051':  
- Login ID: 051  
- Level: Normal User  
- Name: 051  
- Password: \*\*\*  
- Description: (empty)  
- E-mail Address: (empty)  
-  Attach Voicemail in E-mail Notification (this field is circled in red)  
- Usergroup: 051

Figure 39: Voicemail Notification Setting





# Appendix A : Application

## Electronic Lock

The DP3010R can connect with various Electronic locks, including Electronic Strikes, Electronic Bolts and Electromagnetic locks.

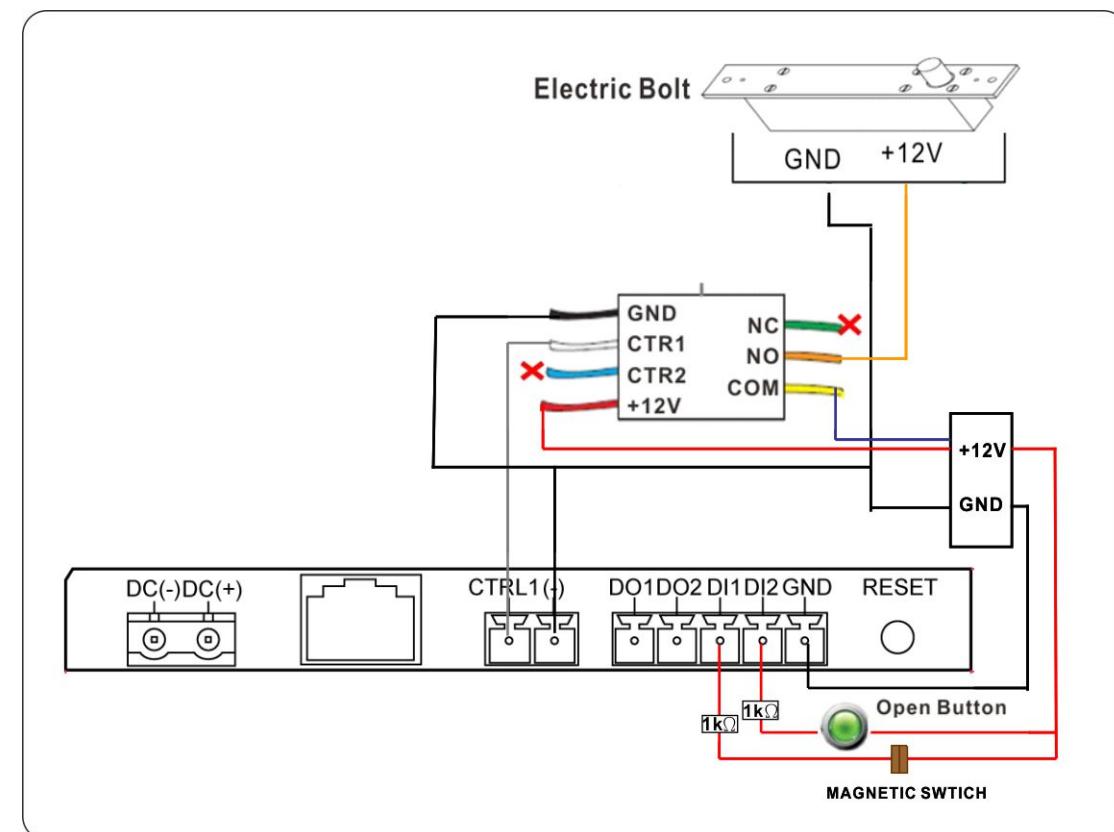
### Wiring Connection and Web Page Setup

There are two types of Electronic door lock applications as below. One is Electronic Bolt, and the other is Electronic Strike. For more Electronic locks, please follow the similar method for connection.

## Electronic Bolt

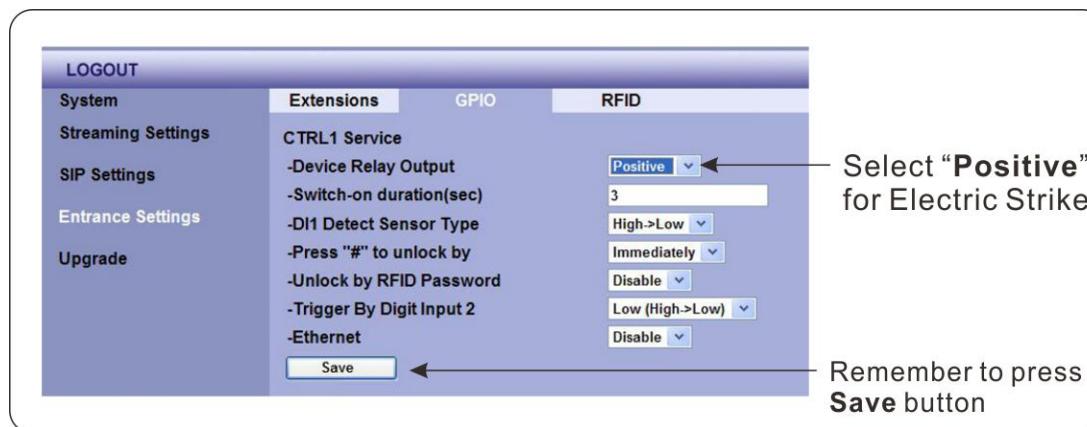
- Electronic Bolt
  - The Electronic Bolt is closed when +12 V is supplied.
  - The Electronic Bolt is opened when +12V is not supplied.

This function can let you not only press the pound key to open the door when the Video Door Phone is ringing but open the door with the Open Button directly.



DI2: Trigger Default → Low (High ->Low)	When the Open Button is pressed, the door will be opened.
DI1: Trigger Default → High-> Low	MS (Magnetic Switch) is open, which means door is not closed well.

NOTE: MS (Magnetic Switch) is used to detect whether the door is closed or not, and the 1K Resistance is used to protect your device.



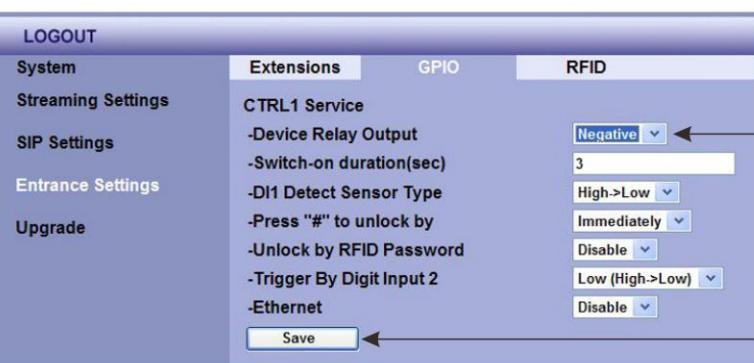
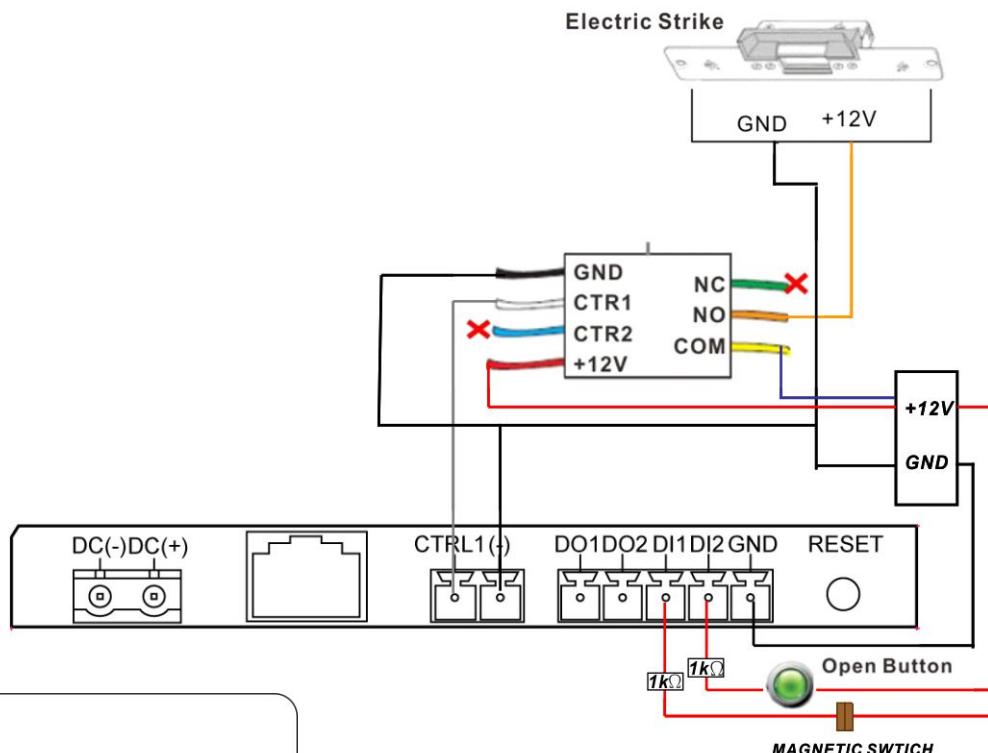
When the wire connection is completed, we need to select the “Positive” for Electronic Bolt on the GPIO page of Entrance Setting on DP3010R WEB User Interface.

## Electronic Strike

### Electronic Strike with Open Button

- The Electronic Strike is opened when +12 V is supplied.
- The Electronic Strike is closed when +12V is not supplied.

This function lets you not only press the pound key to open the door when the Video Door Phone is ringing but open the door with the Open Button directly.

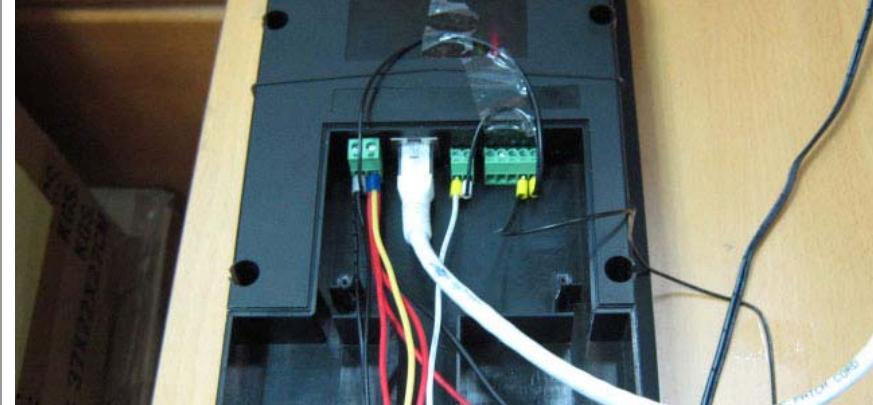
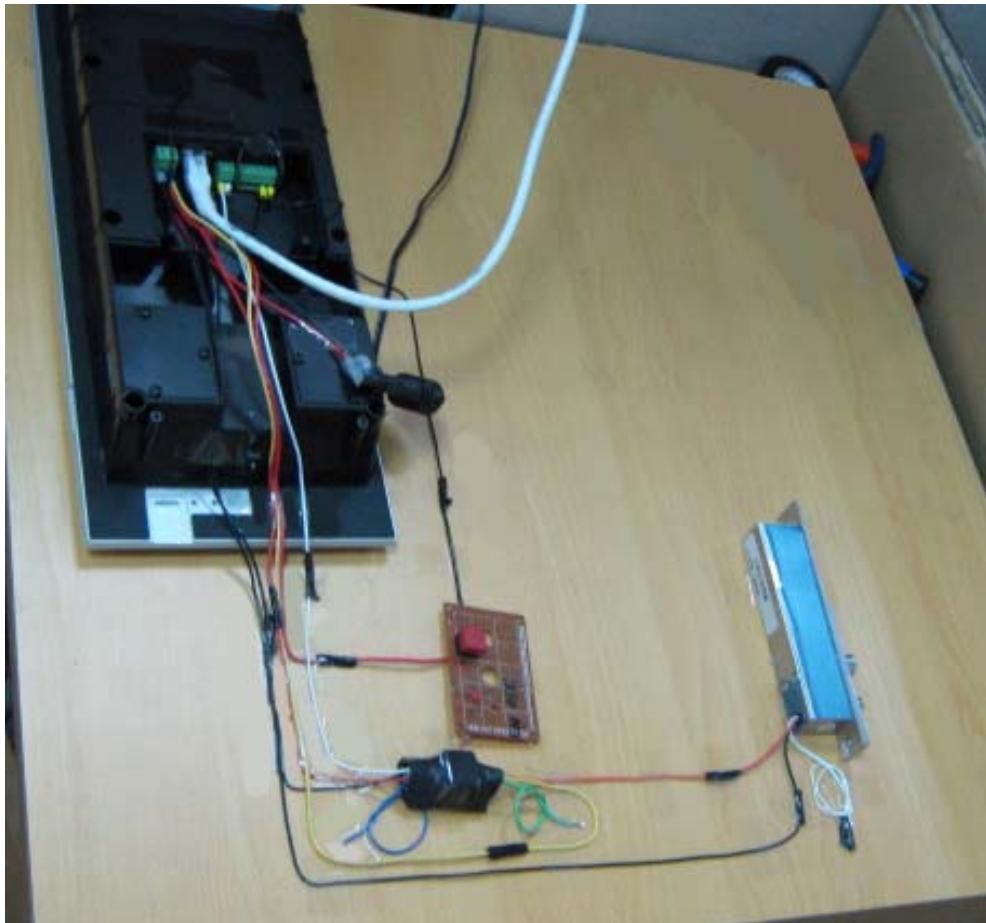


Select “**Negative**” for Electric Bolt

Remember to press **Save** button

When the wire connection is completed, we need to select the “**Negative**” for Electronic Strike on the GPIO page of Entrance Setting on DP3010R WEB User Interface.

## Example of the wiring for Electronic Lock with Open Door Button



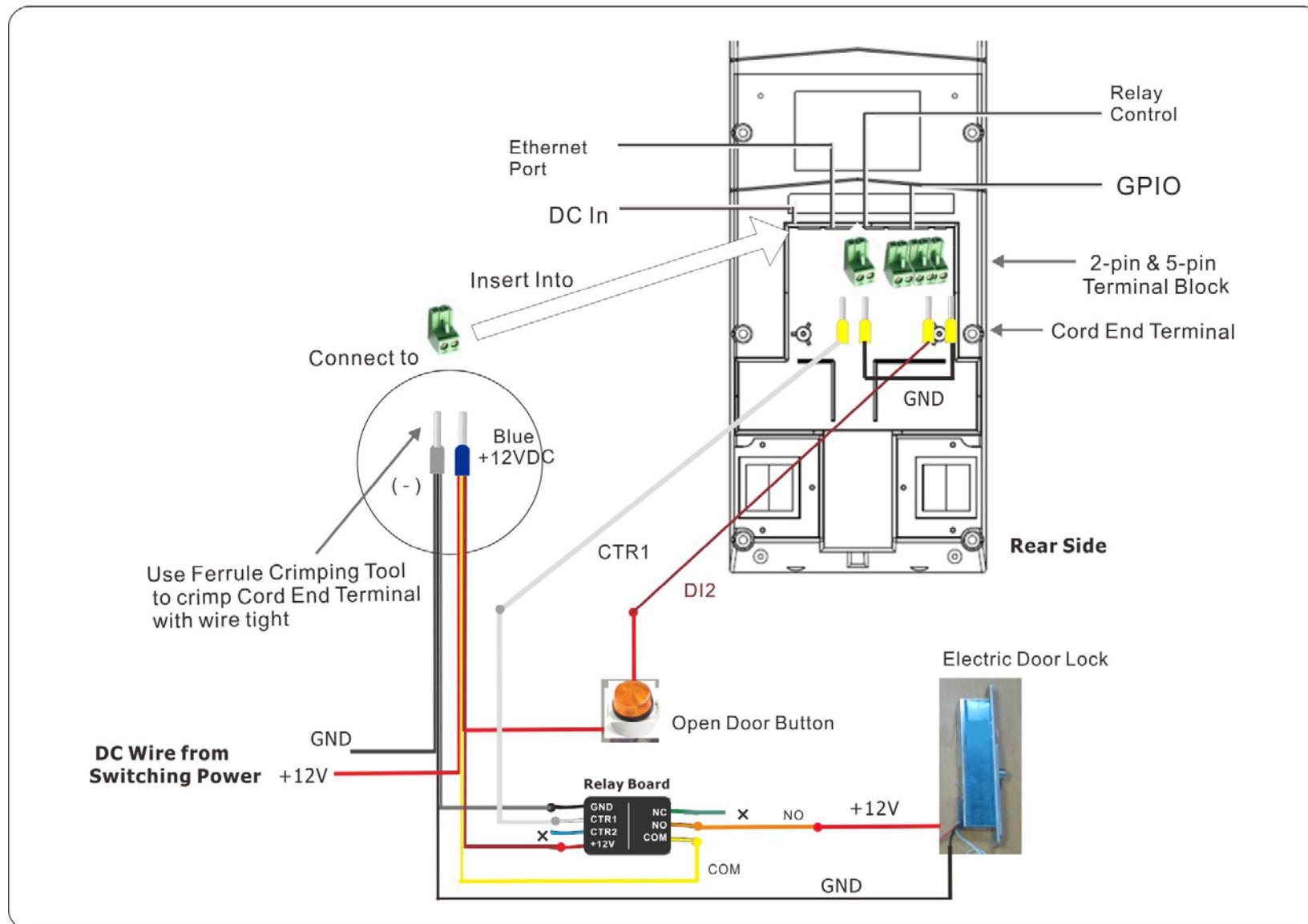
Here we show an example of the wiring for Electronic Lock with Open Door Button. In addition to Electronic Lock and Open Door Button, we use wires, Relay Board, Core End Terminal, 2-pin and 5-pin Terminal Block to build circuit.

It's necessary to connect with Ethernet cable and external DC power. Also, you need to configure WEB UI as previous section mentions.

If all above steps are correct, you can press Door Open Button to trigger the Electronic Lock (open door).

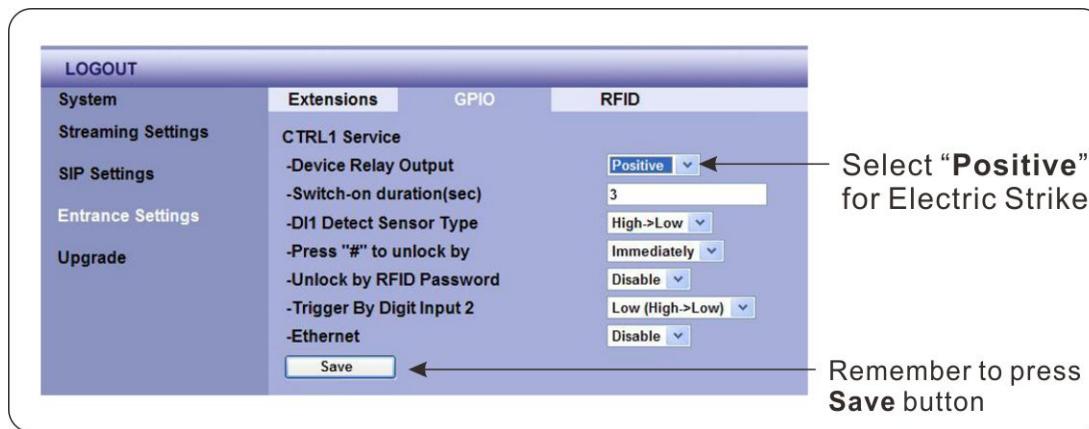
For more detailed information, please refer to next page.

## Diagram of the wiring for Electronic Lock with Open Door Button



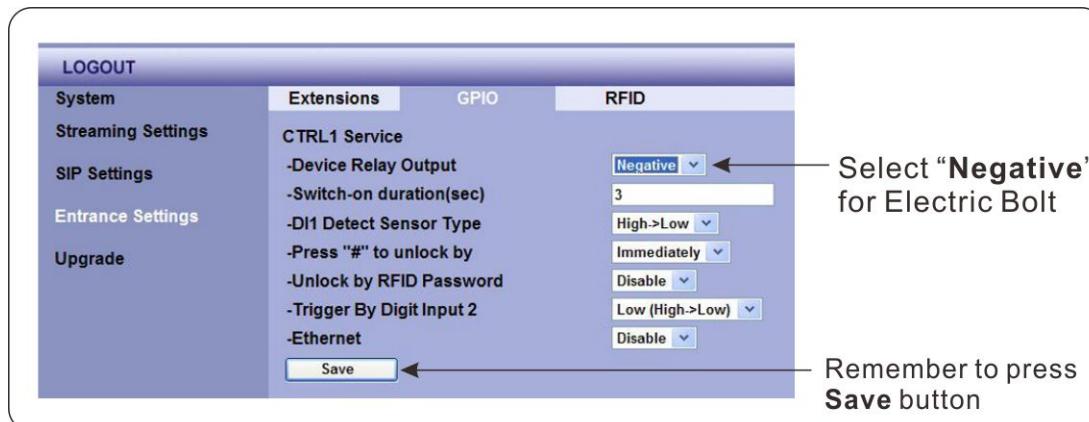
Both Electronic Bolt and Electronic Strike would have the same wire connection to connect to DP3010R and Open Door Button. However, the difference for Electronic Bolt and Electronic Strike is in WEB UI configuration. Please refer to following settings.

### Configure WEB UI for Electronic Bolt



When the wire connection is completed, we need to select the "**Positive**" for Electronic Bolt on the GPIO page of Entrance Setting on DP3010R WEB User Interface.

### Configure WEB UI for Electronic Strike



When the wire connection is completed, we need to select the "**Negative**" for Electronic Strike on the GPIO page of Entrance Setting on DP3010R WEB User Interface.

# Appendix B : Regulatory Information

## Federal Communication Commission Interference Statement

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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

*"Changes or modifications are not expressly approved by the manufacturer could void the user's authority to operate the equipment."*

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.

## **CE DECLARATION OF CONFORMITY (EUROPE)**

Manufacturer declares that this product conforms to the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC:

- EN 301 489-1, 301 489-17 General EMC requirements for Radio equipment
- EN 609 50 Safety
- EN 300-328-1, EN 300-328-2 Technical requirements for Radio equipment

Caution: This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation. Contact local Authority for procedure to follow.

Note: Combinations of power levels and antennas resulting in a radiated power level of above 100 mW equivalent isotropic radiated power (EIRP) are considered as not compliant with the above mentioned directive and are not allowed for use within the European community and countries that have adopted the European R&TTE directive 1999/5/EC.



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