



DP-104

SIP IP VIDEO DOOR PHONE

V-Bell

USER MANUAL

www.avadesign.com.tw



WELCOME

Congratulations on purchasing the V-Bell DP-104 SIP IP Video Door Phone. This door phone is suitable for all your business, and home, door entry communication needs. The DP-104 SIP IP Video Door Phone connects to your computer network and allows either peer to peer (P2P) calls (calls direct to an IP address of another VoIP device) or calls to another number via the SIP server, moreover, it is easily to setup and configuration via a web browser.



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Chapter 1 Introduction

The **DP-104 SIP IP Video Door Phone** is a new, elegant video door intercom with a compact shape that has an easy-to-install surface mount. It works with SIP based phone systems and is compatible with most modern IP-PBX systems supporting both audio and video.

If you want to identify who is at your door before you answer the phone or before letting them in, then the door phone is available with a built-in IP camera supporting up to 1280 x 720 HD video. This video can be viewed in a web browser and shows real-time video on a PC or on a mobile phone/tablet that supports iOS and Android.

The DP-104 SIP Video Door Phone allows entry with the simple press of a key. It is great for unattended lobbies, front doors, gates, warehouse doors, or anywhere visitors may require assistance. Therefore, it is equally suited for commercial, residential, or public facilities.

1.1 Features

- COMS 1280 x 720 HD Camera Sensor
- Support H.264 , Motion-JPEG Video codec
- Super High-Performance Echo Cancellation technology
- The shortest voice delay (below 1~0.5 second)
- Support VoIP technology and SIP (FRC3261) protocol
- Support SIP Register mode and Peer to Peer mode
- Compatible with most modern IP-PBX systems
- Support most SIP Client compatibility
- Support RTSP Protocol
- Build-in One Relay output port (control door lock or siren)
- Build-in One DI port (for Door sensor, PIR, Emergency button)
- COMS 1280 x 720 HD Camera Sensor
- Lens : 112 degrees Wide Range Video View angle
- Support G711u, AAC voice codec
- Build-in Hardware AEC (Acoustic Echo Cancellation)
- Support Auto-answer
- Build-in one Call Button 
- Build-in RFID Card Reader (optional)
- Build-in Power over Ethernet (PoE)(IEEE802.3af) (optional)

Chapter 2 Quick Install

The V-Bell DP-104 SIP IP Video Door Phone requires minimal configuration for a typical installation.

2.1 Open carton

Open the carton and take out the DP-104 Door Phone

Your package should include:

- One DP-104 SIP IP Video Door Phone
- One Roof for surface-mounted
- One Panel for surface-mounted
- One DI/DO cable
- One connector
- Three screws
- One Quick Installation Guide



If items are missing or damaged, notify your Avadesign representative. Keep the carton and packing material.

2.2 What else you need

- One external power adapter: OUTPUT: DC 12V 1.0A
- One RJ-45 cable



p.s. You also can buy the power adapter from Avadesign Technology Co., Ltd. This is an optional item.

2.3 Remove two stickers

There are two layers of transparent stickers on the surface of DP-104 SIP IP video door phone. For the voice quality and pressing the "CALL" button smoothly, please remove the first layer of sticker at first. Then remove the second layer of sticker that shown as .below.

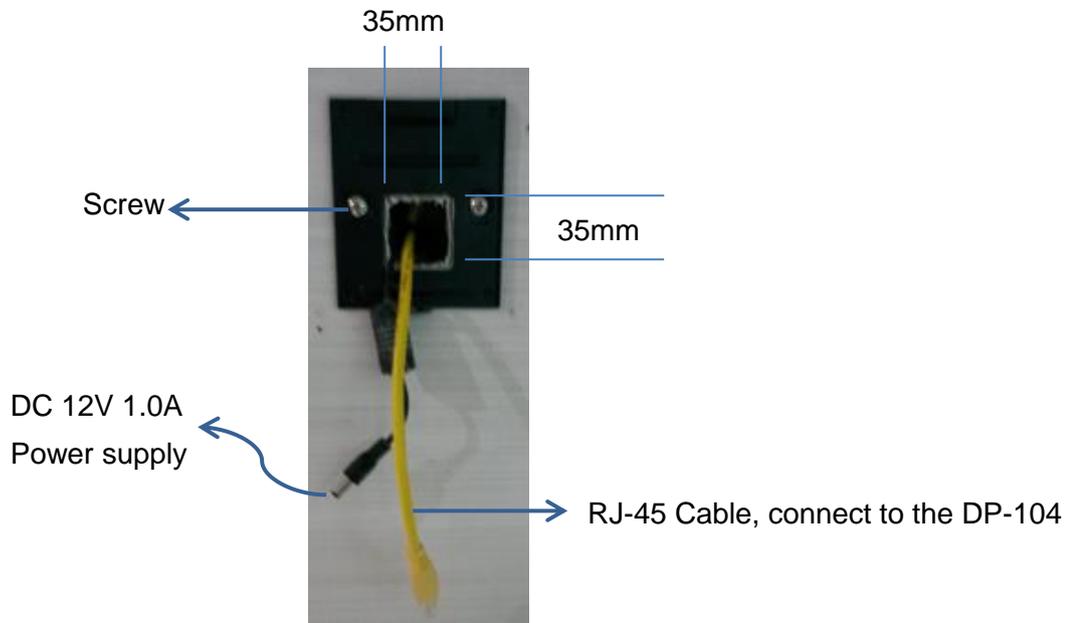
Remove the first layer of sticker.



Remove the second layer of sticker.

2.4 Wiring and mounting on the wall:

- Select a location, Surface-mount the DP-104 Door Phone at desired location.
- Feed the Ethernet cable through the cable square hole which dimensions 35 x 35mm shown as below:



- Fix the door phone on the wall using a roof or a panel and two screws as shown the diagrams below:



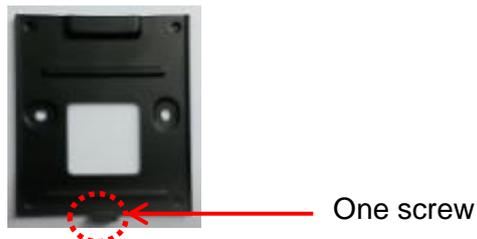
or



Fig. 1 Mounting on the wall with Roof

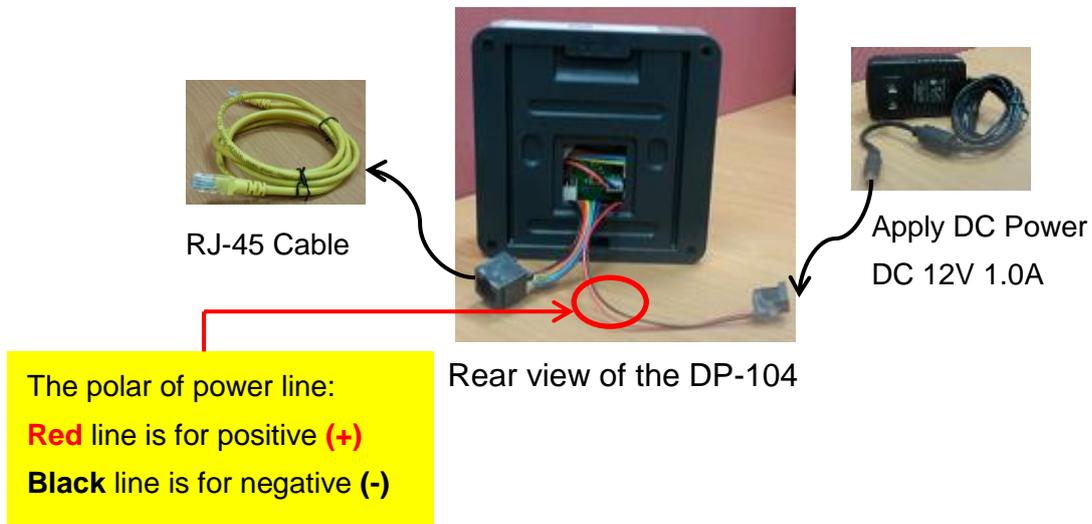
Fig. 2 Mounting on the wall with Panel

You can fix the DP-104 IP video door phone on the roof/panel with a screw.



2.5 Plug in

Connect RJ-45 cable and power supply to the DP-104 SIP IP video door phone. Then plug into an available outlet.



The VBell service

The VBell Service is the cloud service and free charge that provided by Avadesign Technology for the DP-104 SIP IP Video Door Phone application.

2.6 Access VBell service

The V-Bell DP-104 SIP IP Video Door Phone will access the VBell service directly and start to work automatically.

Now, you can test the DP-104. The DP-104 SIP IP Video Door Phone allows entry with pressing a key. Caller at the front door and press "CALL" button, person inside the building can talk to callers, look at caller, then open the door.

Chapter 3 Full Web Configurations

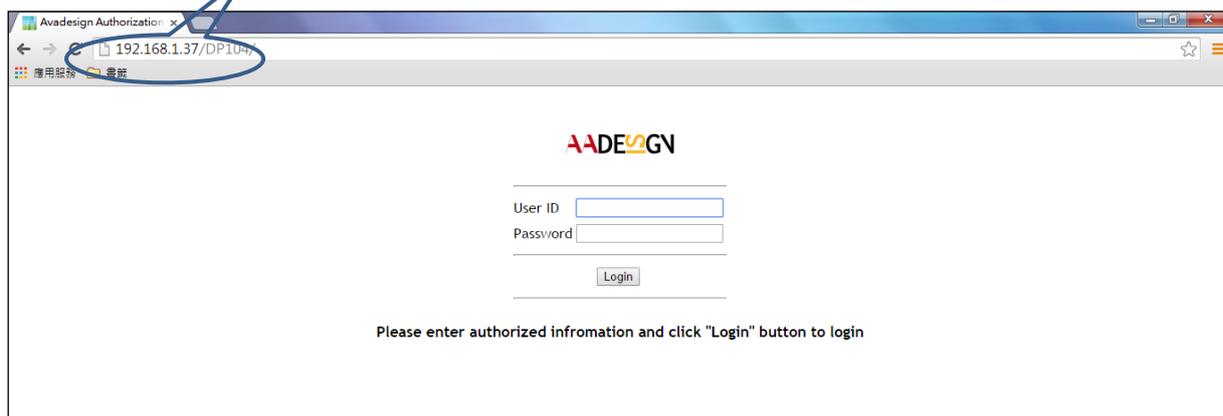
User can choose either VBell service or register to SIP server which is accessed via a web browser.

3.1 Register to SIP server

3.1.1 Enter web configure page

When you register the DP-104 door phone to SIP server, please open your chrome browser and type an IP address. We suggest user can use IP finder utilities to find out the IP address of your new DP-104 SIP IP video door phone that described as chapter 4 of this manual at page 18~20. For example: type **http://192.168.1.xx** of the DP-104 door phone in the address bar and press Enter. The screen is shown as follows.

Please key in 192.168.1.xx of your DP-104 SIP IP Video Door Phone



p.s. If DHCP fail, please go to the default IP 192.168.1.100 for advance application.

Please input with username: admin and password: admin then click “Login” button on the screen.

Login Page



Web configuration consists of left menu bar for major function categories and displays detailed setting for each function as clicks.

- **Status**
- **Service**
- **Device**
- **System**

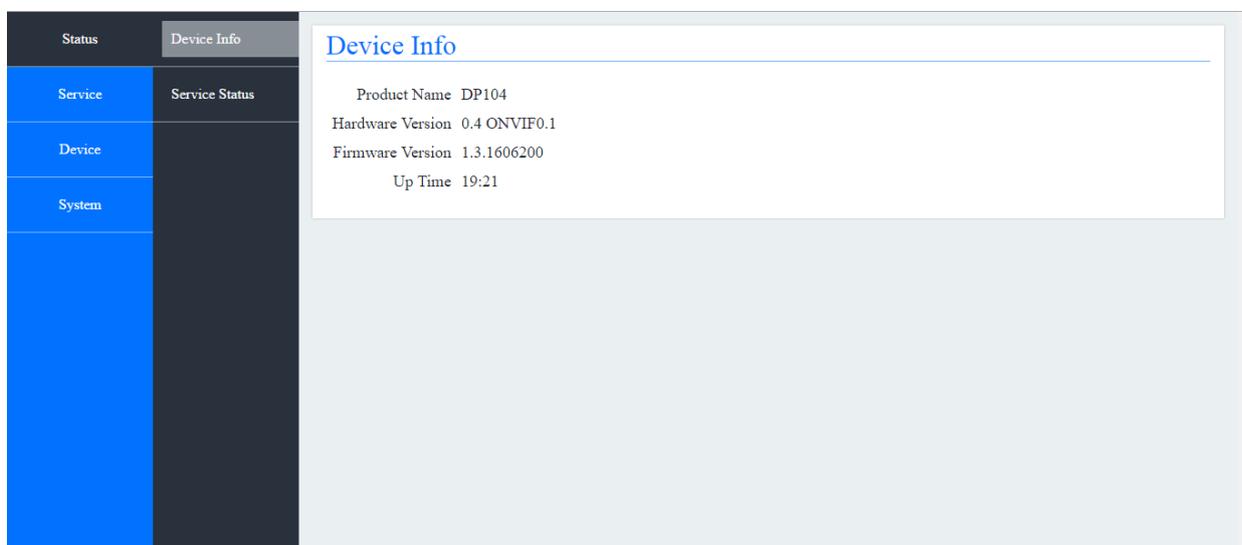
The various configuration menus are explained below.

3.2 Status

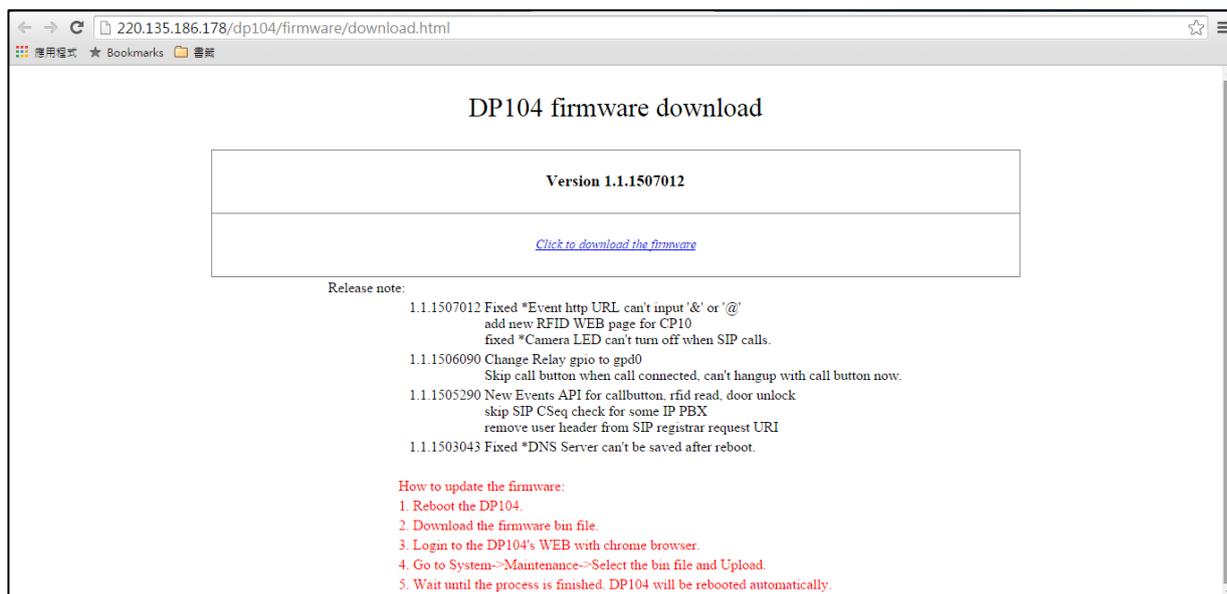
3.2.1 Device Info

Then you can see the screen as below which show the device information:

Status — Device Info



Firmware version of the above screen will be updated with change over time, please go to <http://220.135.186.178/dp104/firmware/download.html> to download the latest version and read its content. You also can refer to this manual about firmware upgrade described in Section 3.5.3.1.



3.2.2 Service Status

You also can see the service status as below:

Status — Service Status

The screenshot displays a web interface with a dark sidebar on the left and a main content area on the right. The sidebar has a 'Status' menu with sub-items: 'Service' (highlighted in blue), 'Device', and 'System'. The 'Service' sub-menu is open, showing 'Device Info' and 'Service Status' (highlighted in grey). The main content area is titled 'Status — Service Status' and contains two sections: 'Network Status' and 'Phone Status'. The 'Network Status' section lists: MAC Address 00:13:4B:E1:40:01, DHCP Status OFF, IP Address 192.168.3.201, Network Mask 255.255.0.0, Default Gateway 192.168.1.1, and DNS 8.8.8.8. The 'Phone Status' section lists: SIP Number 01001, Registration State **Online** (in green), Registration Address 192.168.1.251, and Port 5060. A vertical scrollbar is visible on the right side of the main content area.

Category	Item	Value
Network Status	MAC Address	00:13:4B:E1:40:01
	DHCP Status	OFF
	IP Address	192.168.3.201
	Network Mask	255.255.0.0
	Default Gateway	192.168.1.1
	DNS	8.8.8.8
Phone Status	SIP Number	01001
	Registration State	Online
	Registration Address	192.168.1.251
	Port	5060

3.3 Service

3.3.1 SIP

Now you can select “service” in the first level of menu then click on “SIP” bar in the second level of menu to register your DP-104 SIP IP video door phone to SIP server.

Disable Cloud Service. And input your data to each fields.

You can click on “Add” button to add more dial button for use.

When you have finished the input data of each field, clicking on “save” button on the screen to save your registration data. The screen is shown as follows.

Service — SIP

The screenshot displays the SIP configuration interface. On the left is a navigation menu with 'Status', 'Service', 'Device', and 'System' sections. The 'Service' section is expanded to show 'SIP', 'Calls', 'Video', 'RTSP Server', and 'Web Server'. The main content area is titled 'Cloud Service and Registration' and contains the following sections:

- Cloud Service and Registration:** Includes checkboxes for 'Cloud Service For APP Cloud Service' (unchecked) and 'Registration Enabled' (checked).
- SIP Information:** Contains input fields for 'Display Name' (2N), 'Username' (01001), 'Auth Username' (01001), and 'Password' (masked with dots). A note below states: 'Please input only 0-9, a-z, A-Z and avoid special words'.
- SIP Registrar:** Contains input fields for 'Registrar Address' (192.168.1.251), 'Registrar Port' (5060), 'Registration Expires' (300 s), and 'Dial Button' (990012@192.168.1.251). An example is provided: 'For example: 2001@192.168.0.254:5060'. An 'Add' button is located at the bottom right of this section.
- Advanced Settings:** This section is highlighted with a red dashed border and contains:
 - 'Outbound Proxy' (empty field)
 - 'SIP Transport' (dropdown menu set to 'UDP')
 - 'SIP Local Port' (5060)
 - 'IP Address Filter Enabled' (checkbox checked) with an input field containing '54.215.11.15' and '+' and '-' buttons.
 - 'Starting RTP Port' (10100)

A 'Save' button is located at the bottom right of the entire configuration area.

If you would like to make SIP transport, local port...and so on advance setup, please move the cursor to the arrow sign which at the end of “Advanced Settings” and click the left button of your mouse. Then you can input data for advance setting as above.

3.3.2 Calls

Next step, you can setup the ring time and call duration for outgoing calls of the DP-104 SIP IP video door phone by clicking on “Phone->Calls” bar in the second level of menu. You also can input a DTMF code to unlock the door that shown as follows.

Service — Calls

Status		<h3>Outgoing Calls</h3>
Service	SIP	
	Calls	Ring Time Limit <input type="text" value="60"/> s Call Duration Limit <input type="text" value="180"/> s
Device	Video	
System	RTSP Server	<h3>Door unlock key by DTMF code</h3> <input type="text"/>
	Web Server	<h3>Play ring bell tone</h3> <input checked="" type="radio"/> On <input type="radio"/> Off
		<input type="button" value="Save All"/>

3.3.3 Video

You can setup the resolution of image, video frame rate and video quality for the live video of IP camera of the DP-104 SIP IP video door phone that shown as follows. Please remember that after you change its data, the system need to reboot.

Service — Video

Status		<p>The system needs to be reboot after modify the following data:</p>
Service	SIP	
	Calls	
Device	Video	<h3>Video Parameters</h3> Video Framerate <input type="text" value="20"/>
System	RTSP Server	<h3>Video Codec--H264</h3> Video Resolution <input type="text" value="1280x720"/> Video Quality <input type="text" value="Highest"/>
	Web Server	<h3>Video Codec--MJPG</h3> Video Resolution <input type="text" value="800x480"/> Video Quality <input type="text" value="Normal"/>
		<input type="button" value="Save All"/> <input type="button" value="Reboot"/>

3.3.4 RTSP Server

The Real Time Streaming Protocol (RTSP) enables you to watch live video from DP-104 SIP IP video door phone connected to the RTSP server.

Now you can enable RTSP server by clicking on “RTSP Server” bar in the second level of menu for real-time watching who is at your door. Please remember that after you change its data, the system need to reboot.

Service — RTSP Server

RTSP Server

The system needs to be reboot after modify the following data:

RTSP Server Enabled

MJPEG URL

MJPEG Audio Type

H264 URL

H264 Audio Type

3.3.5 Web Server

If you would like to change the account name and password, please click on “web server” bar in the second level of menu as follows.

Service — Web Server

Web Server

Account

Password

Please input only 0-9, a-z, A-Z and avoid special words

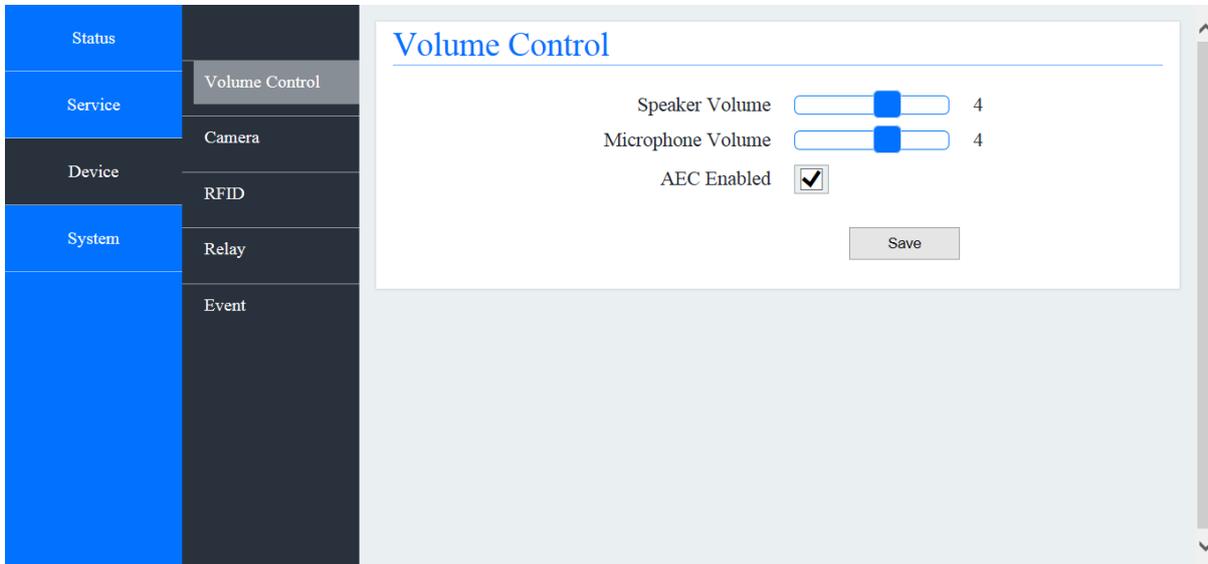
HTTP Port

3.4 Devices

3.4.1 Volume Control

If you would like to adjust the volume of speaker and microphone, please select “device” in the first level of menu and click on “Volume Control” bar in the second level of menu as follows:

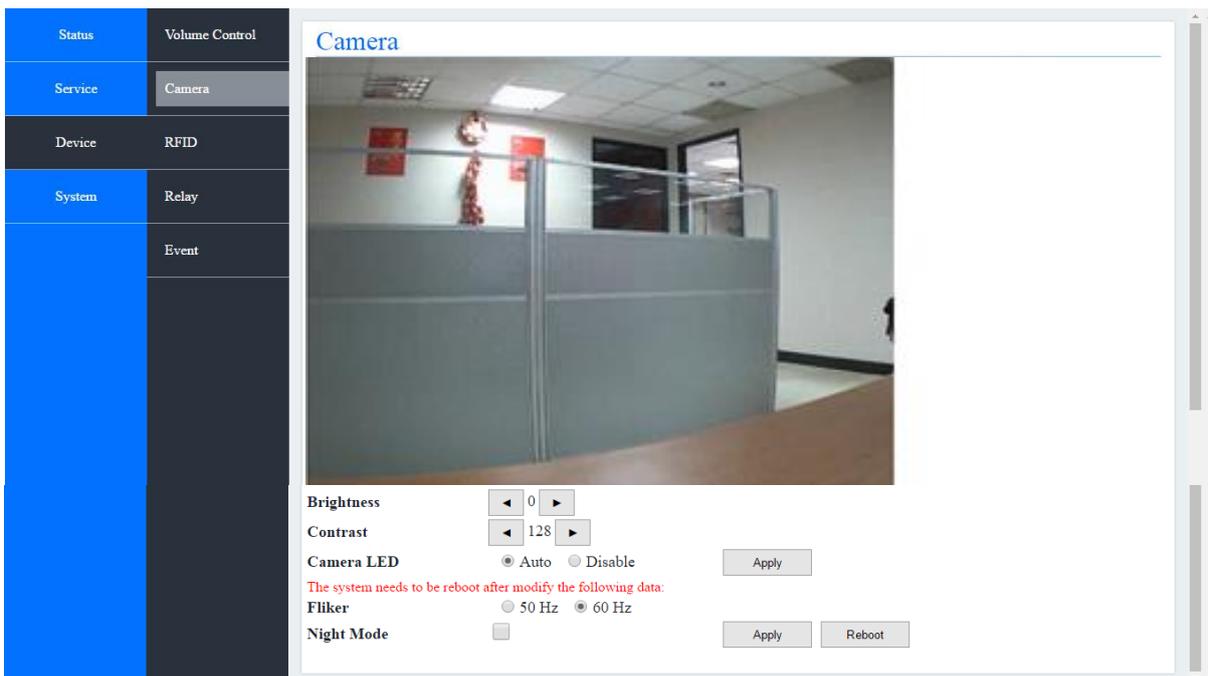
Device — Volume Control



3.4.2 Camera

If you would like to adjust the brightness and contrast of IP camera of the DP-104 SIP IP video door phone, please select “device” in the first level of menu and click on “Camera” bar in the second level of menu. You also can decide to open or close the light of the camera LED that shown as follows:

Device — Camera



3.4.3 RFID

DP-104R supports RFID reader for MiFare. Therefore the MiFare card can connect to DP-104R device. There is a unique ID for RFID card and can NOT be revised and copied. Because of this characteristic, user can apply it as a recognizable identify.

Users can input 100 ID into the memory of DP-104R on web configure page. When the read ID number and the ID number which in the memory match, user can open the door.

Now we describe how to do RFID (Radio Frequency Identification) set up here. Please select “device” in the first level of menu and click on “RFID” bar in the second level of menu as follows:

Device — RFID (For RFID Setting)

Select “RFID Authentication” for step 2.

Step 1: You can set up the RFID device through Web Configure which provides by Avadesign.

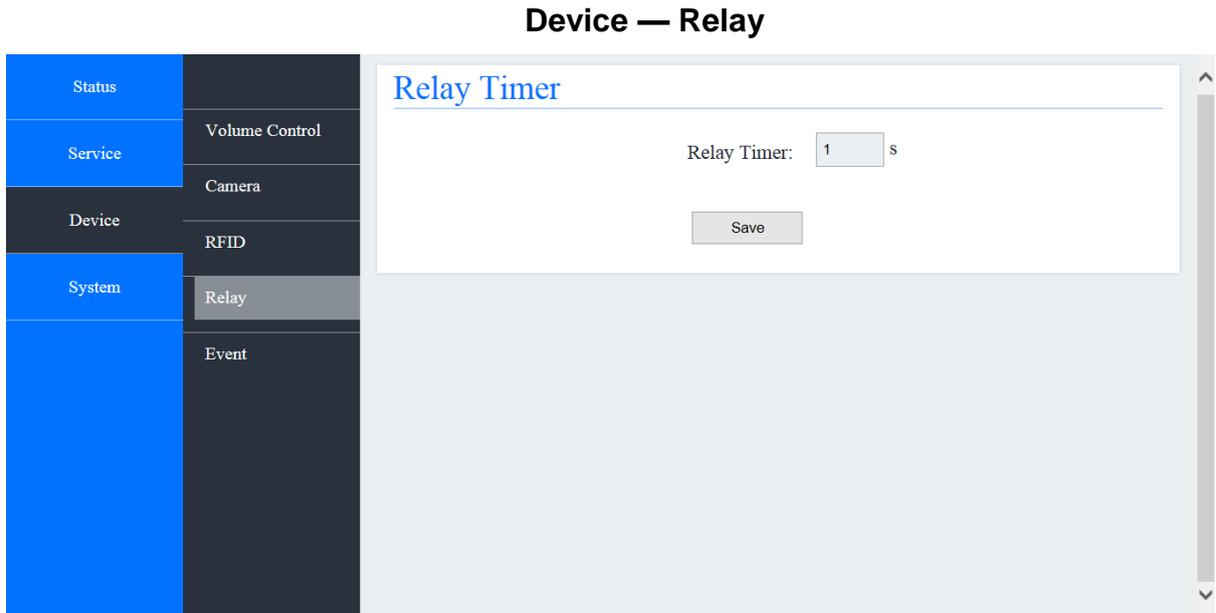
Step 2: After log in Web Configure page, you will see the interface as above diagram and you can place your card on the sensor area of DP-104R more than 2 seconds and the card number will be shown on A zone and B zone after device read card. If you would like to set up ID identified,

choose the card number from B zone and transfer to C zone. Also you need to select RFID Authentication. Then the card owner which is in C zone can open the door. Now, you finish the setting procedure.

Step 3: You also can check history to realize which card pass in RFID log because it could recode last 100 unit data

3.4.4 Relay

This feature allows you to set relay timer as shown below:



3.4.5 Event

This feature allows you to set up event as shown below:

Status		Call Button Event
Service	Volume Control	API URL(GET): http:// <input type="text" value="192.168.0.254/callbutton.cgi"/>
Device	Camera	
	RFID	
System	Relay	RFID Read Event
	Event	API URL(GET): http:// <input type="text" value="127.0.0.1/DP/doorunlock.ncgi?id=\$CARDID&mac=C"/>
		RFID Read Event to Other server
		API URL(GET): http:// <input type="text" value="server/rfidread.cgi?id=\$CARDID&mac=\$MAC&time"/>
		Doorunlock Success Event
		API URL(GET): http:// <input type="text" value="admin.admin@192.168.3.118:5000/security_guard."/>
		Doorunlock Unsuccess Event
		API URL(GET): http:// <input type="text" value="192.168.1.254/cgi-bin/doorunlock.cgi?id=\$CARDID"/>
		<input type="button" value="Save All"/>
		<p>The default door unlock API is http://127.0.0.1/DP/doorunlock.ncgi?id=\$CARDID SCARDID is setting for transmitting the UID. SMAC is setting for MAC of the log. STIME is setting for time of the log. STZ is setting for time zone of the log.</p>

DP-104R can be used to integrate other applications, you can also specify the card ID transmitted to a remote server by key in your service IP to **API URL (GET): http://** via HTTP protocol and response data by the server to determine whether open the door or not. **In this step, please don't select RFID Authentication.**

【Remark】 API URL (GET): The open door http API of DP-104 SIP IP video door phone is [http://127.0.0.1/DP104/doorunlock.ncgi?id=\\$CARDID](http://127.0.0.1/DP104/doorunlock.ncgi?id=$CARDID)

You do NOT need to input card number. And no card number saves in the DP-104 SIP IP video door phone.

3.5 System

3.5.1 Network

The network settings can be found in the menu "Network". Depend on different network environment for each user. You can go to "System" item in the first level of menu and click on "Network" bar in the second level of menu to define the type of your network.

DP-104 SIP IP video door phone supports Ethernet and PPPoE. Ethernet is the most widely-installed local area network (LAN) technology. The Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol for encapsulating PPP frames inside Ethernet frames.

If you click Ethernet, please choose DHCP or Static IP that shown as below. The Dynamic Host Configuration Protocol (DHCP) is a standardized network protocol used on Internet Protocol (IP) networks for dynamically distributing network configuration parameters, such as IP addresses for interfaces and services.

System — Network — Ethernet — DHCP

The screenshot shows a web interface for configuring network settings. On the left is a navigation menu with categories: Status, Service, Device, and System. The 'Service' category is expanded to show 'Network', 'Date&Time', 'Maintenance', 'Reset', 'Reboot', and 'Language'. The 'Network' page is active, displaying the following configuration options:

- Network Type:** Ethernet PPPoE
- Boot Protocol:** DHCP Static

Buttons for 'Save' and 'Reboot' are present below these options. A red warning message states: "The system needs to be reboot after modify the following data:". Below this, the DDNS configuration is shown with a link to "Go No-IP Registration".

- DDNS - [Go No-IP Registration](#)**
- Server:** dynupdate.no-ip.com
- Username:** xxxxxxx@xx.yy.zz
- Password:** [masked with dots]
- Hostname:** xxxxxx.no-ip.org

Buttons for 'Save', 'Reboot', and 'Packets Capture' are located at the bottom of the configuration section.

System — Network — Ethernet — Static

Status

Service

Device

System

Network

Date&Time

Maintenance

Reset

Reboot

Language

Network

The system needs to be reboot after modify the following data:

Network Type Ethernet PPPoE

Boot Protocol DHCP Static

IP Address

Network Mask

Default Gateway

DNS Server

The system needs to be reboot after modify the following data:

DDNS - [Go No-IP Registration](#)

Server

Username

Password

Hostname

System — Network — PPPoE

Status

Service

Device

System

Network

Date&Time

Maintenance

Reset

Reboot

Language

Network

The system needs to be reboot after modify the following data:

Network Type Ethernet PPPoE

User

Password

The system needs to be reboot after modify the following data:

DDNS - [Go No-IP Registration](#)

Server

Username

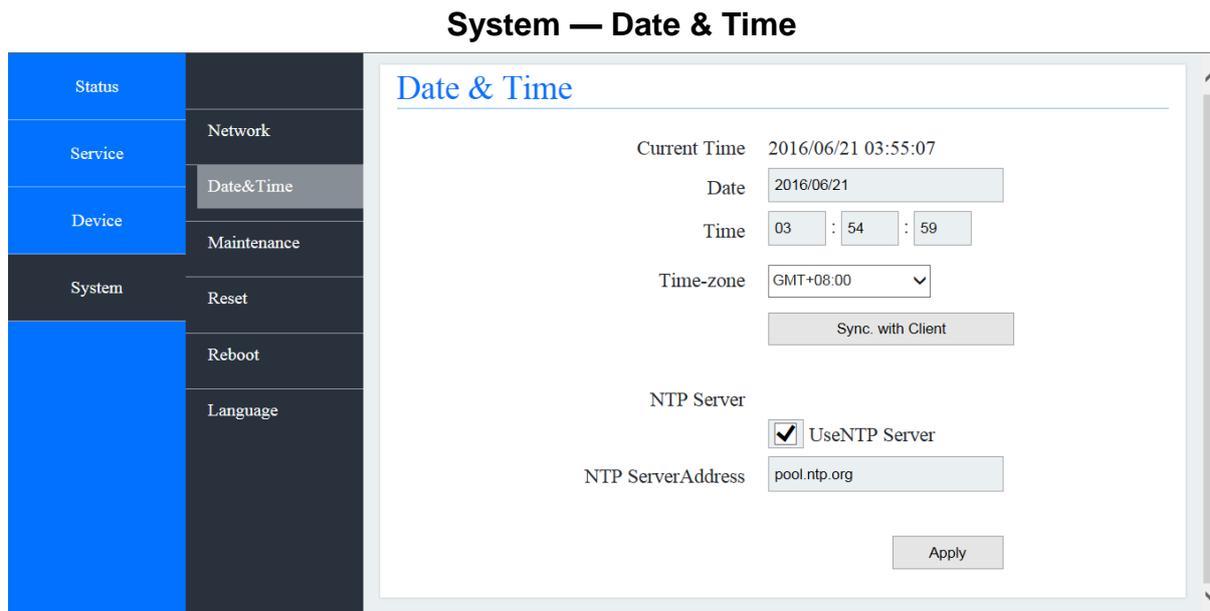
Password

Hostname

3.5.2 Date & Time

You can set up the date and time of the DP-104 SIP IP video door phone by manual or NTP (Network Time Protocol) server. If you choose to setup the date and time by manual, please input data for “Date”, “Time”, and “Time-zone” fields then click on the button of “synchronize with client”.

If you would like to synchronize the time automatically, please enable the NTP server that shown as below.



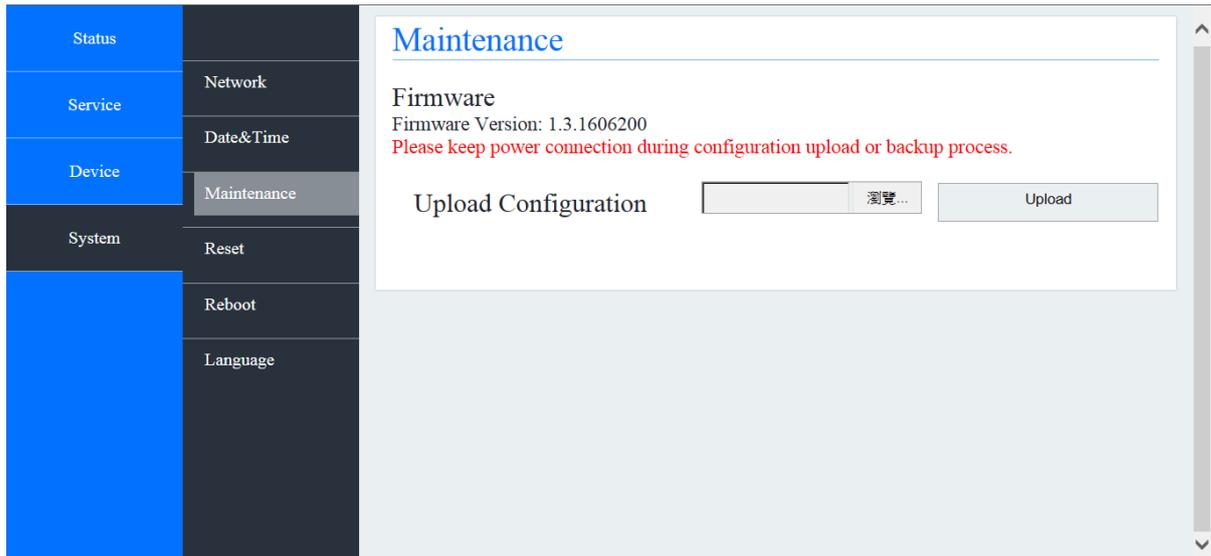
3.5.3 Maintenance

3.5.3.1 Upgrade DP-104 Firmware

Before you select “System” in the first level of menu and click on “Maintenance” bar in the second level of menu to make new configuration, you need to download the firmware file of the DP-104 SIP IP video door phone. Please visit <http://220.135.186.178/dp104/firmware> to download the firmware file and save in your computer.

During upload the file for configuration, please keep the power supply is connect to plug-in. After the upgrade is complete, please check and confirm the firmware version has changed.

System — Maintenance

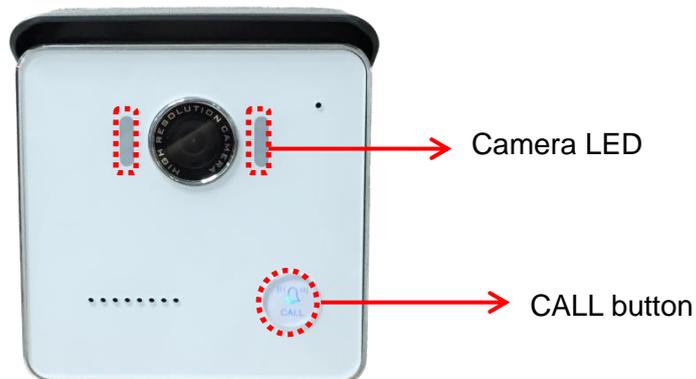


3.5.4 Reset

3.5.4.1 How to return to default setting for your DP-104 SIP IP video door phone?

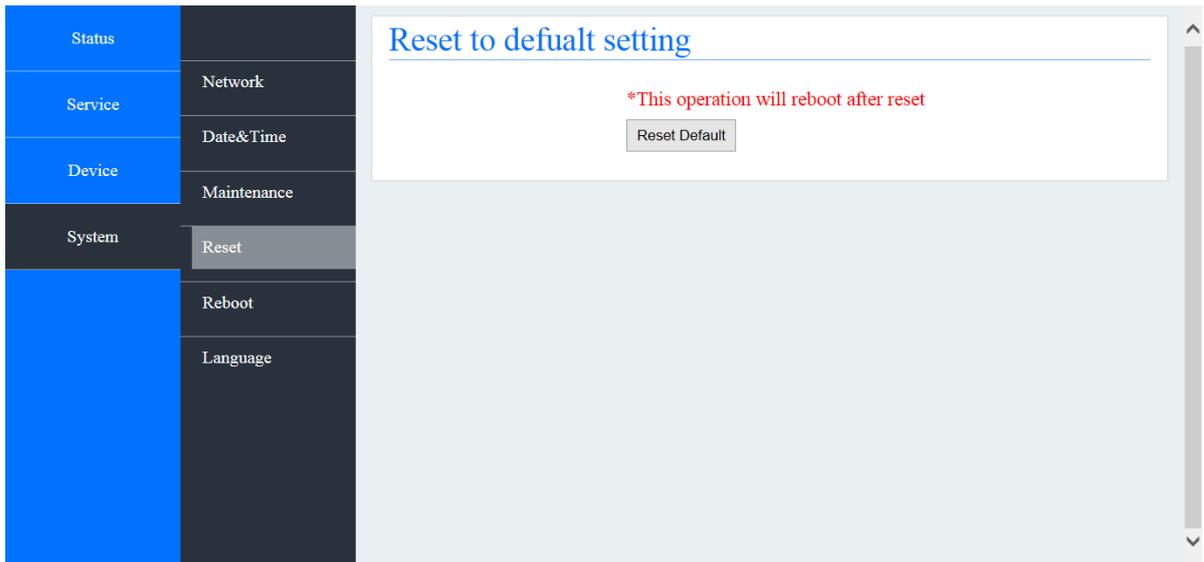
DP-104 SIP IP video door phone provides two different methods to recover the default setting for user.

- (1) For resetting device to default settings plug in and hold CALL button at the front panel of DP-104 until the camera LED flash quickly about 5 seconds then release the button. The DP-104 IP video door phone will restart automatically and return to default setting.



- (2) For the version of v1.1.1411060 late, you can select “System” in the first level of menu and click on “Reset” bar in the second level of menu to recover the default setting that shown as following diagram.

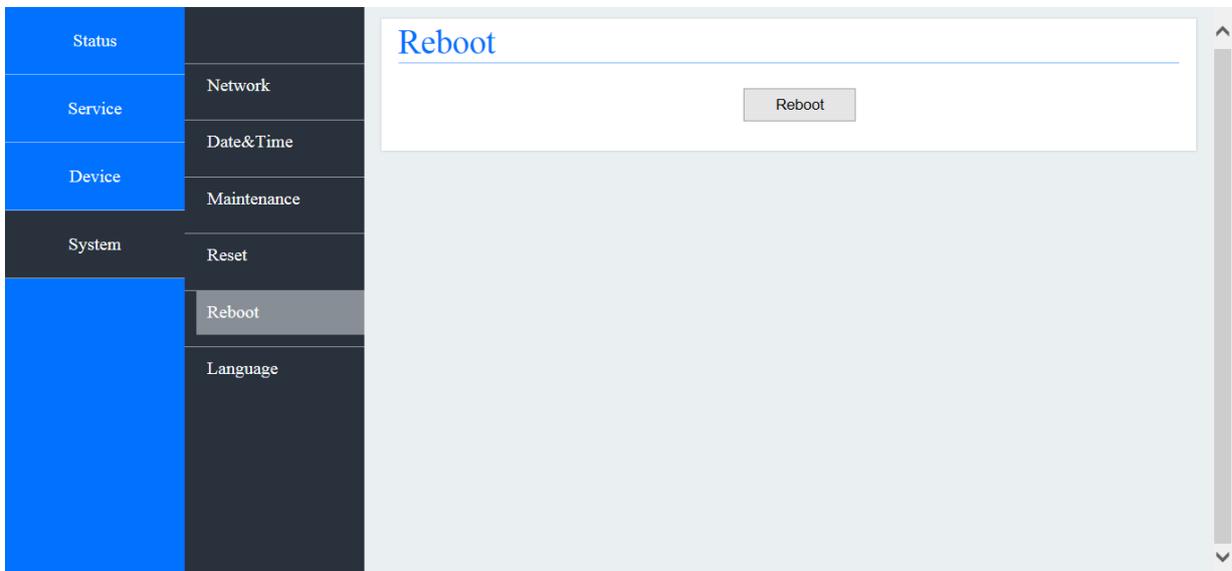
System — Reset



3.5.5 Reboot

This function is provided to reboot your DP-104 system that shown as below diagram. You can also click on “Reboot” button to execute reboot work under Network function that described in section 3.5.1 of this manual.

System — Reboot



3.5.6 Language

This function is available for you to setup DP-104 system web page language. You can choose Traditional Chinese or English that shown as following diagram.

System — Language

Status	
Service	Network
Device	Date&Time
	Maintenance
System	Reset
	Reboot
	Language

Language

English ▾

Apply

Chapter 4 How to find the IP address of your DP-104 SIP IP Video Door Phone

If find out the IP address of DP-104 SIP IP video door phone is difficult for you, please open the web browser and type **http:// 220.135.186.178/dp104/utilities/** in the address bar and press Enter. The screen is shown as below.

The screenshot shows a web browser window with the address bar containing <http://220.135.186.178/dp104/utilities/>. The page title is "Index of /dp104/utilities". Below the title is a table with columns: Name, Last modified, Size, and Description. The table lists the following files:

Name	Last modified	Size	Description
Parent Directory	-	-	-
AvaCamFinder.zip	07-Oct-2014 11:25	43K	
AvaScan.ipa	09-Oct-2014 17:32	74K	
avaCamFinderJava.zip	06-Nov-2014 15:18	6.7K	
avaScan.apk	06-Aug-2014 15:21	7.9M	

Below the table, it says "Apache/2.2.3 (CentOS) Server at 220.135.186.178 Port 80".

Annotations in the image:

- A green box labeled "Used for PC" has an arrow pointing to [AvaCamFinder.zip](#).
- A purple box labeled "Used for iOS devices" has an arrow pointing to [AvaScan.ipa](#).
- A yellow box labeled "Used for Android devices" has an arrow pointing to [avaScan.apk](#).

AvaCamFinder.zip is used for your computer. Please click on "AvaCamFinder.zip" and download the file to your PC or Notebook. Then install it. The icon  will display on the desk of your PC or Notebook. Click on this icon , you will find the IP address of your DP-104 SIP IP video door phone shows on the screen as follows.

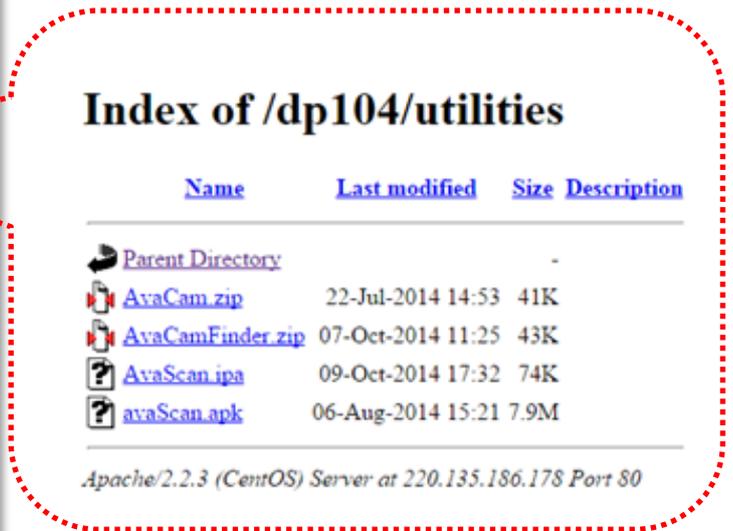
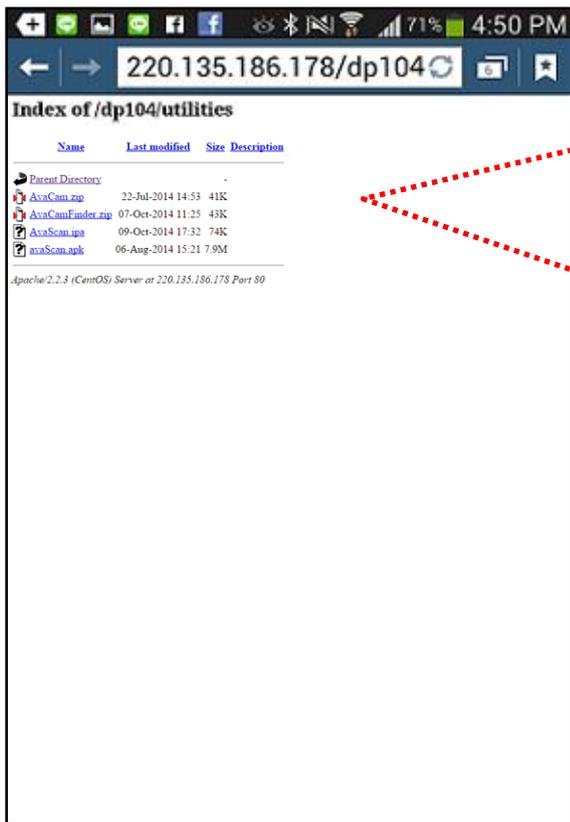


AvaScan.ipa is used for your mobile devices that developed by iOS such as iPad or iPhone. Please open the Internet browser on your iPad or iPhone and point to an IP address

220.135.186.178/dp104/utilities/. Then download the file with name of AvaScan.ipa on your iPad or

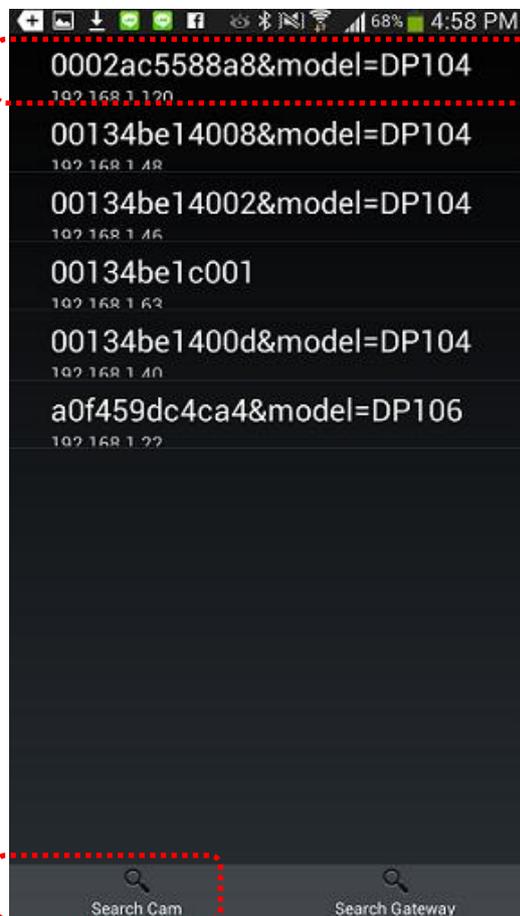
iPhone and install it. The icon  will appear on the screen of Apps on your iPad or iPhone. Click on this icon , you will find the IP address of your DP-104 SIP IP video door phone show on the screen that is similar with above diagram.

avaScan.apk is used for your mobile devices that developed by Android. Please open the Internet browser  on your smartphone or tablet and point to an IP address 220.135.186.178/dp104/utilities/. Then you also can see the screen shown on your smartphone as below.



Please download the file with name of avaScan.apk to your smartphone or tablet and install it. The icon of avaScan  will appear on the screen of Apps on your smartphone. Click on this icon , you can choose “search Cam” to see the IP address of your DP-104 SIP IP video door phone that shown as right side.

You get the IP address of DP-104 is 192.168.1.20

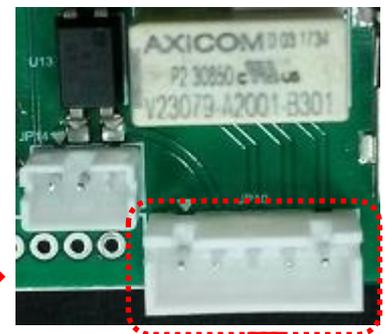
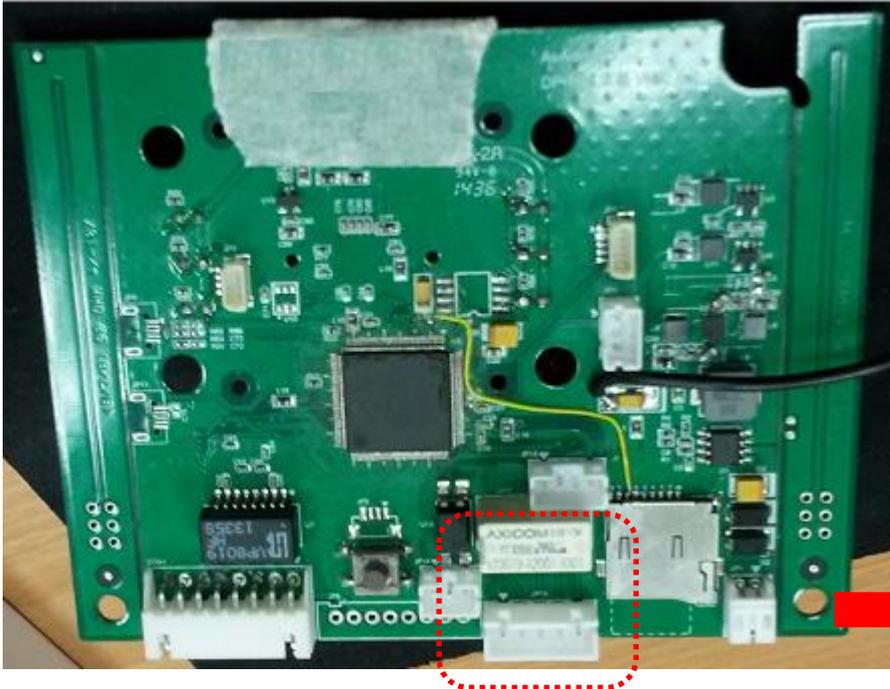


Search Cam

Chapter 5 DI/DO of DP-104 SIP IP video door phone instruction

This section describes how to connect door lock/unlock control signal or alarm signal on the printed circuit board (PCB) of DP-104 SIP IP video door phone.

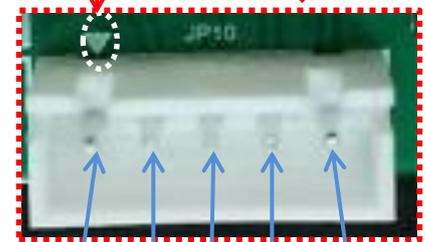
PCB of DP-104



Arrow symbol

DP-104 JP10 illustration:

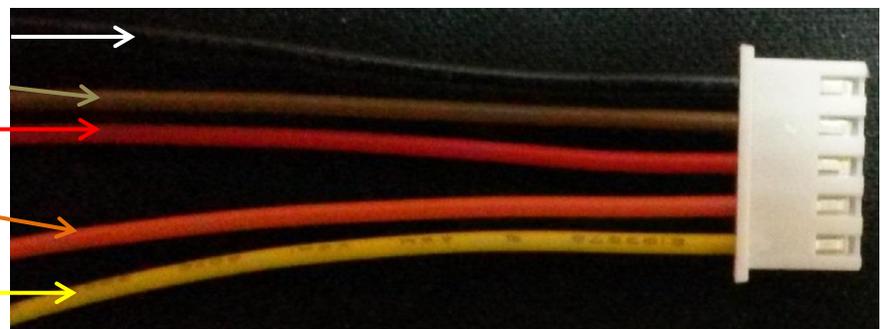
- PIN 1: DI+
- PIN 2: DI-
- PIN 3: DO Normal Close (NC)
- PIN 4: DO COM
- PIN 5: DO Normal Open (NO)



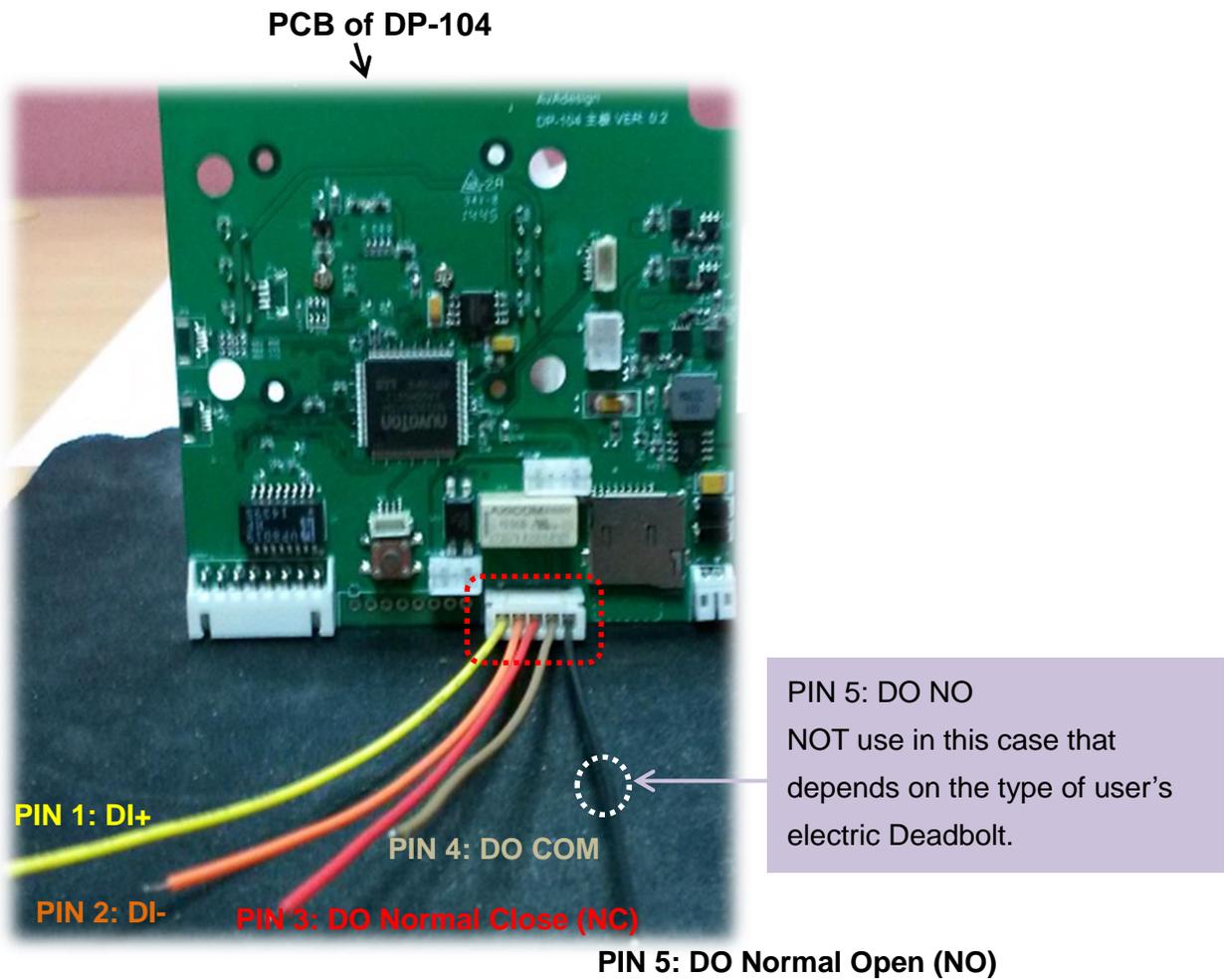
1 2 3 4 5 PIN

Avadesign provides a DI/DO cable for users as below:

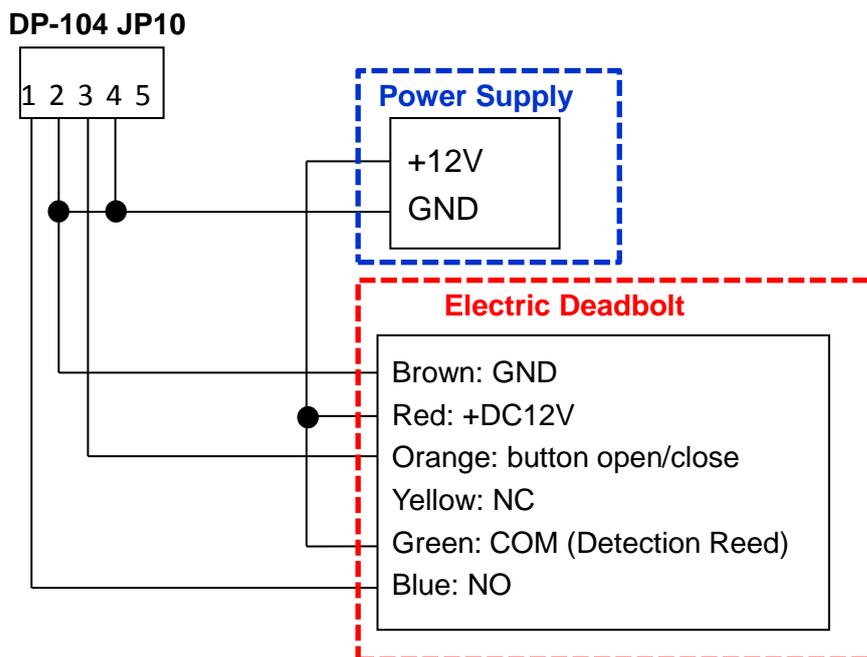
- PIN 5: DO Normal Open (NO) (black)
- PIN 4: DO COM (brown)
- PIN 3: DO Normal Close (NC) (red)
- PIN 2: DI- (orange)
- PIN 1: DI+ (yellow)



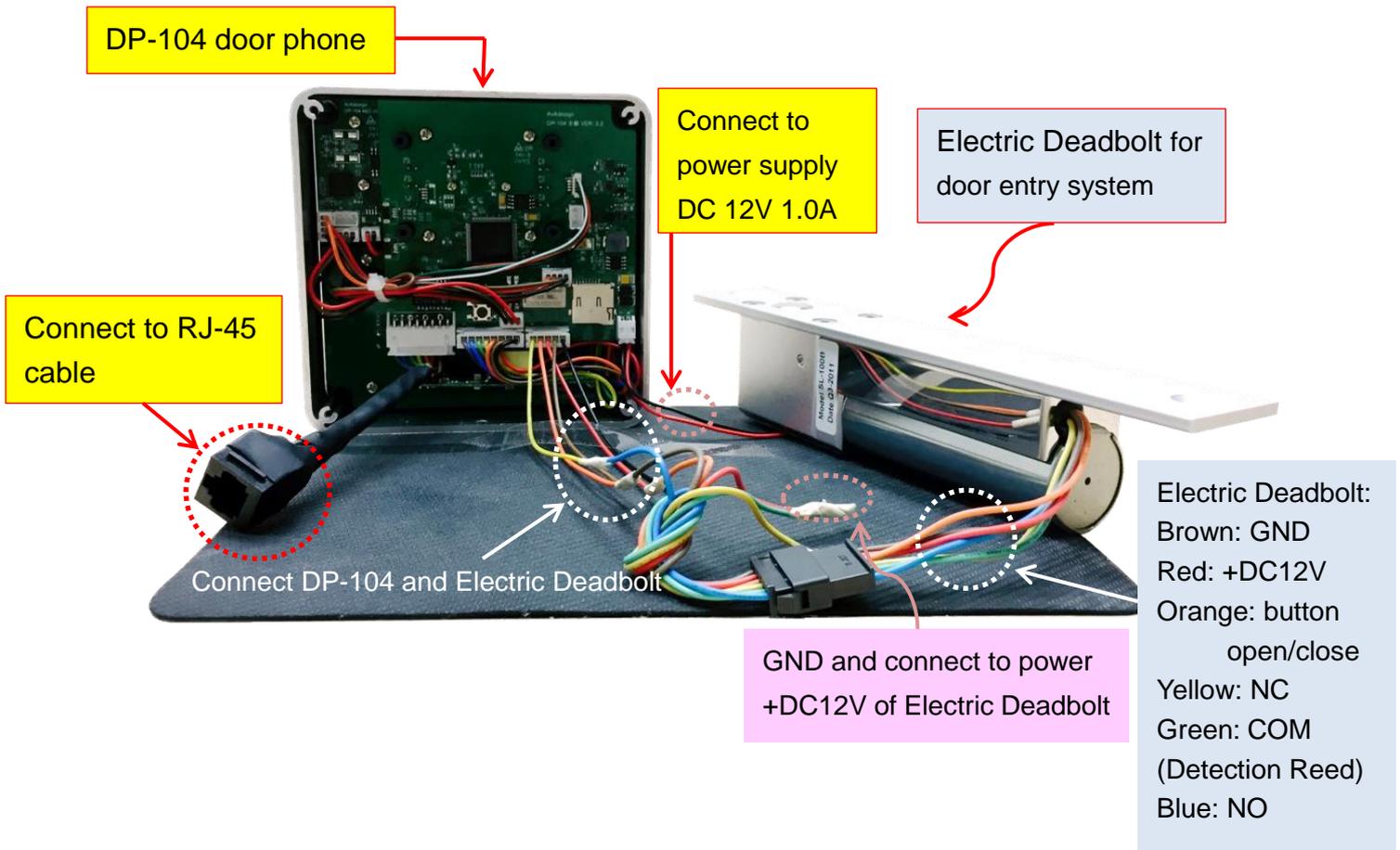
Connect DI/DO cable to the PCB of DP-104 as below diagram:



DI connects to the sensor for notifying the status, so that the CPU to do the appropriate action. DO connect to control device. According to the status of device can be accessed (NC—COM) or (NO—COM). The PCB controls the power ON/OFF status of device by relay.



Connect condition of DP-104 SIP IP video door phone and Electric Deadbolt is shown as below.



Chapter 6 Mechanical dimensions for the DP-104 SIP IP video door phone

- Dimensions (H x W x D): 114x114x35mm
- Weight: 290g
- Color of Door phone Faceplate: White



DP-104

Order Information:

Model No.	Standard	Adapter	PoE	RFID
DP-104	✓			
DP-104P	✓		✓	
DP-104R	✓			✓
DP-104PR	✓		✓	✓
DP-104A	✓	✓		
DP-104AP	✓	✓	✓	
DP-104AR	✓	✓		✓
DP-104APR	✓	✓	✓	✓

Mounting accessories *(Surface-Mount Bezel included with all Door phone Kits)*

- Roof



Dimensions (H x W x D): 127x120x44mm

- Panel

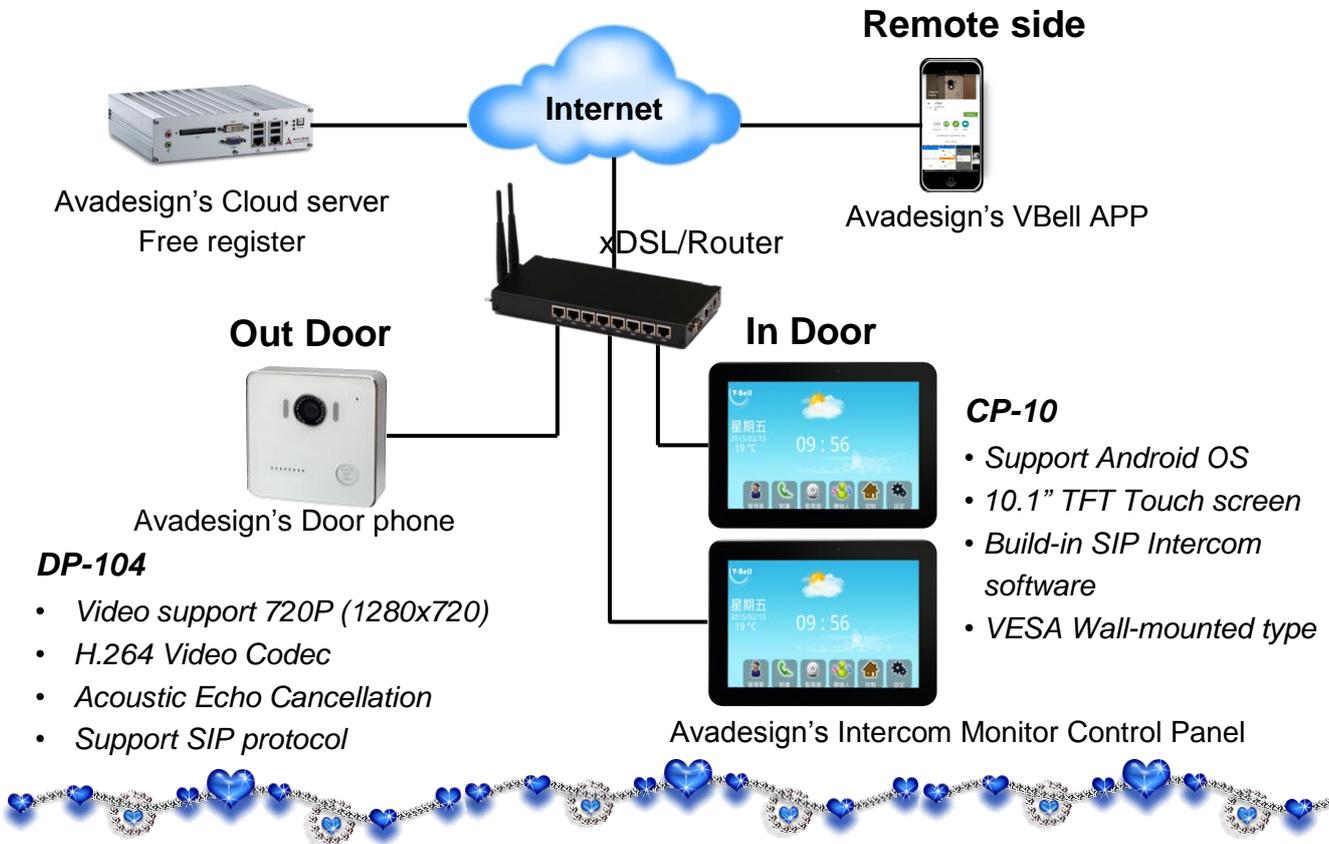


Dimensions (H x W x D): 96x82x3mm

Chapter 7 Applications

The application of DP-104 SIP IP Video Door Phone is shown as follows.

Simple Intercom Networking



Smart Home Intercom Integration Networking

