amroad

VIDEO INDOOR STATION

ID5101

MANUAL FOR SYSTEM INTEGRATOR

AMROAD TECHNOLOGY INC.

Video Indoor Station

ID5101 Series

ID5101-FF ID5101-ND ID5101-RN ID5101-NN

Note:

ID5101 FF	With RFID module	With IO Connector
ID5101 ND	Without RFID module	With IO Connector
ID5101 RN	With RFID module	Without IO Connector
ID5101 NN	Without RFID module	Without IO Connector

MANUAL FOR SYSTEM INTEGRATOR

AMROAD TECHNOLOGY INC.

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Chapter 1 : Introduction

Welcome

Thank you for purchasing this Video Indoor Station.

Home Security is emphasized by the lifestyle of modern families. ID5101 features Home Security for daily life on your community network. ID5101 lets you set Security areas in your house, and it helps to guard your home safe by sensing abnormal situations (CO, Gas, and Emergency Button). Once alarm is triggered, three calls will automatically be sent with Alarm Speech Announcement.

ID5101 allows you to view live video (Surveillance) up to 12 cameras, so you can see what's happening in other rooms and outside your house. Messages that include Alarm Record, Visitor Record (pictures of visitors), Call Record, and Community Notice can be read through your ID5101.

In addition, ID5101 is a SIP-based Video Indoor Station that supports several high quality audio and video codecs. It acts like a SIP video phone that allows you to make (video) phone calls to talk to your friends and neighbors with live images.

The Video Indoor Station includes two main features (Home Security and SIP Video Phone):

A. Features of Home Security

- Home Security – Alarm for CO Sensor, Emergency Button, and Gas Detector
- Security Area Enable/Disable with RFID Card
  (RFID Internal Module, ISO 14443A Compliant/ 13.56 MHz)
- Three Calls will be sent with Alarm Speech Announcement once alarm is triggered.
- Connect up to 12 cameras for live Video (Surveillance)
- Messages – Alarm Record, Visitor Record, Call Record, and Community Notice

B. Features of SIP Video Phone

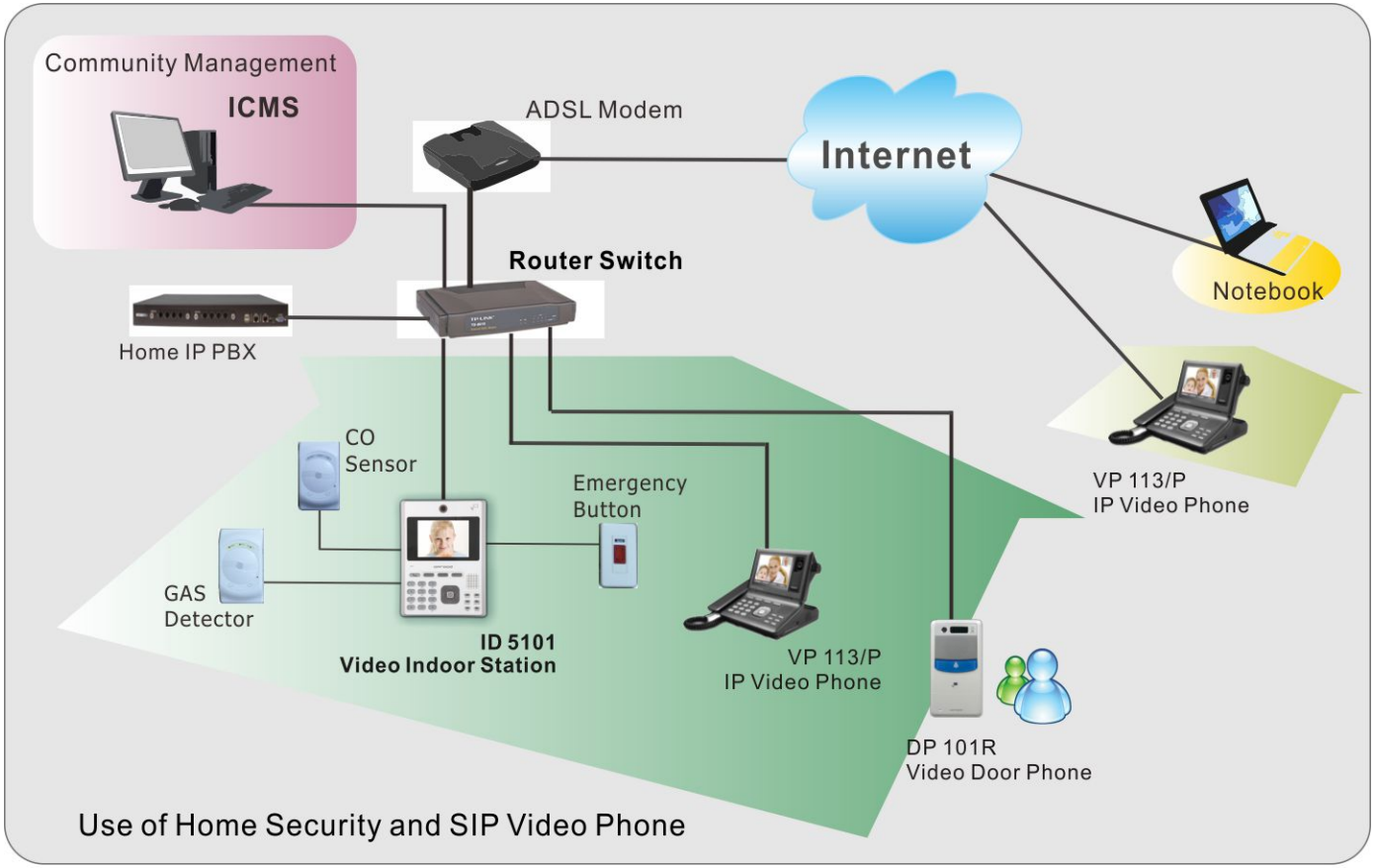
- Support SIP2.0 (Session Initiation Protocol) Compliant
- Streaming Video and Voice over IP networks (VoIP)
- Support Peer-to-Peer Mode
- 5-inch TFT LCD Display and Camera provide outstanding video quality
- Hand-free Speakerphone
- Web User Interface for SI online configuration from web browser on computer

Please read this manual carefully before taking any installation action. Please contact your dealers or system integrators if you have questions.

Use of Home Security and SIP Video Phone

In the diagram, ID5101 is connected to CO sensor, Gas detector, and Emergency button to guard your home safe. Besides, ICMS (Intelligent Community Management Server) may deliver messages such as Community Notice and Alarm to your ID5101.

SIP (Session Initiation Protocol) is a most commonly used protocol that used to interconnect SIP services to establish voice and video sessions between each other over an IP Network.



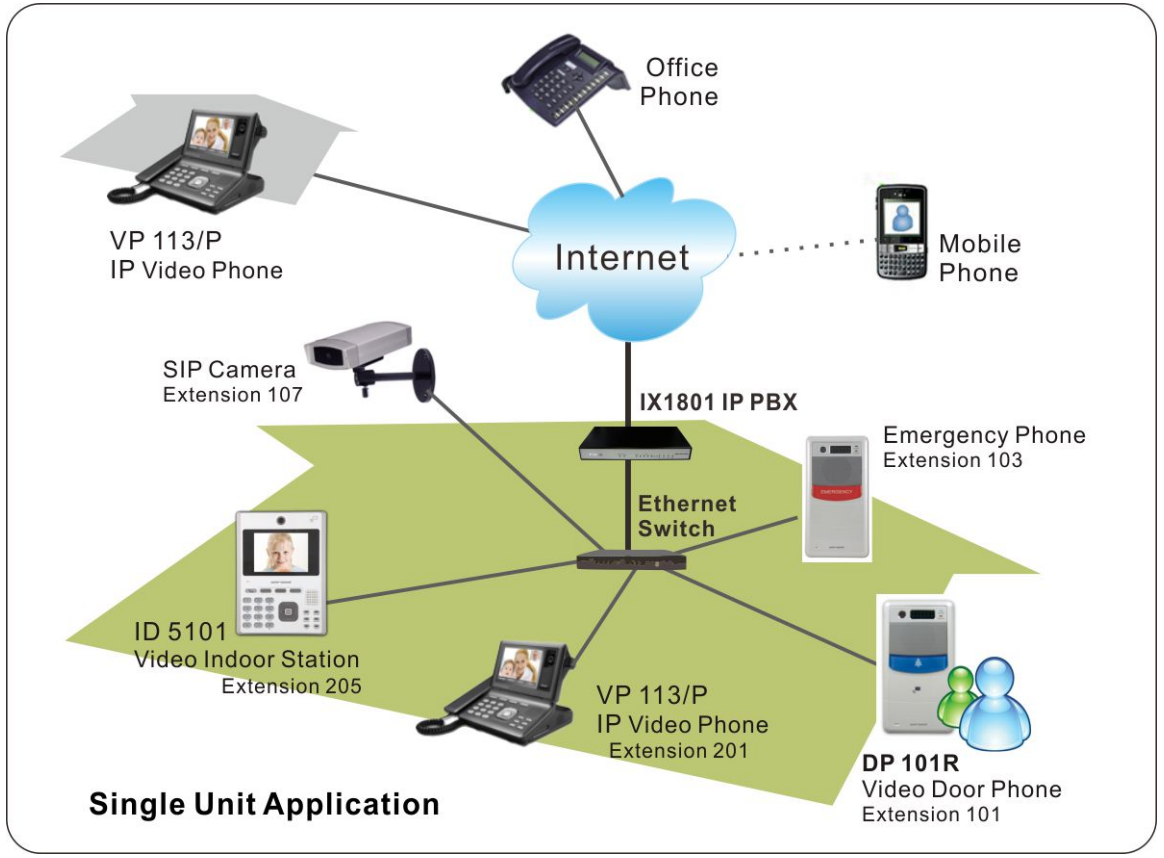
NOTE: ICMS means Intelligent Community Management Server

Besides, ID5101 also acts like a video phone that allows you to make video calls and answer door phone

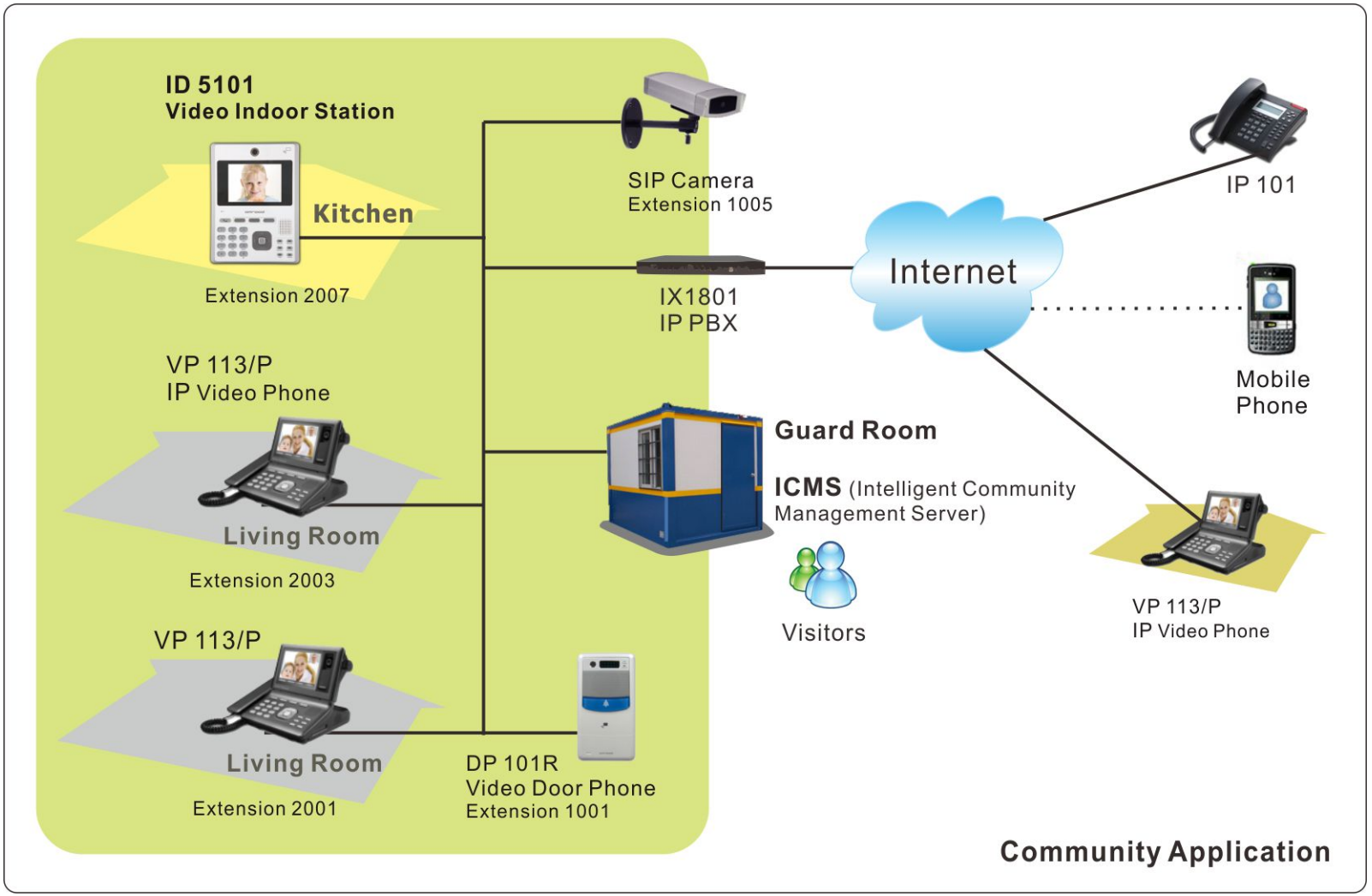
Single Unit Application

The diagram shows that ID5101 can connect to a variety of SIP devices such as IP video phone, video door phone, video indoor station and SIP Camera.

Besides Home Security, ID5101 allows you to make video phone calls, answer door phone, and view live video through SIP camera.



Community Application

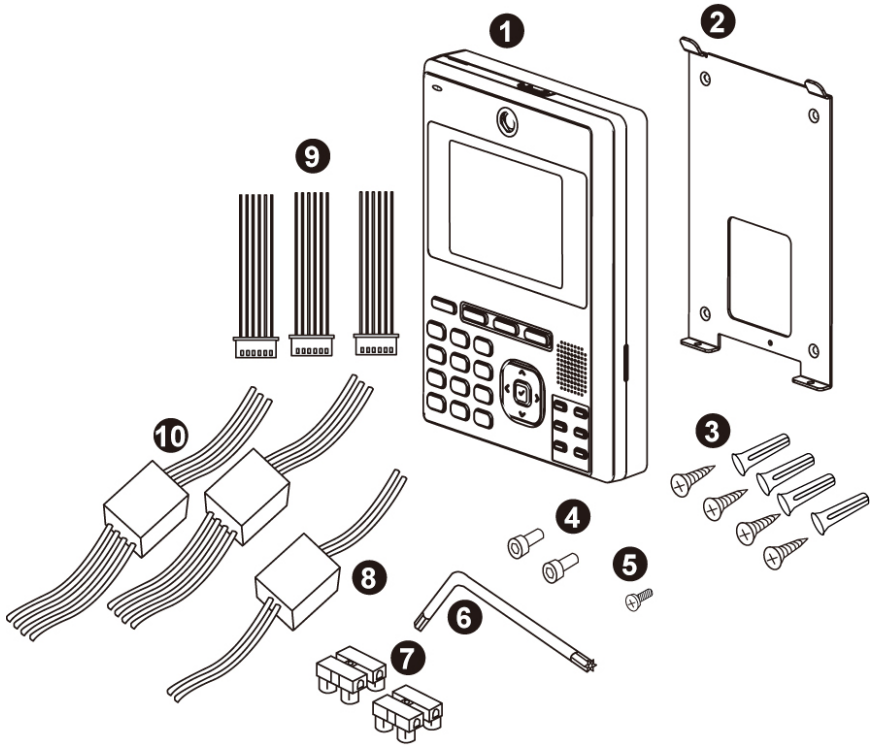


Chapter 2 : Installing

Package Contents

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

1. Video Indoor Station
2. Back Plate
3. Wall mounted screw pack
4. Screw Pack (2 pieces of M4 x 10mm)
5. Screw for Earth Wire
6. Wrench
7. H type Terminal Connector for Power Wire (2 pieces)
8. Adapter
9. I/O Cable (3 pieces)
10. Relay Board (2 pieces)



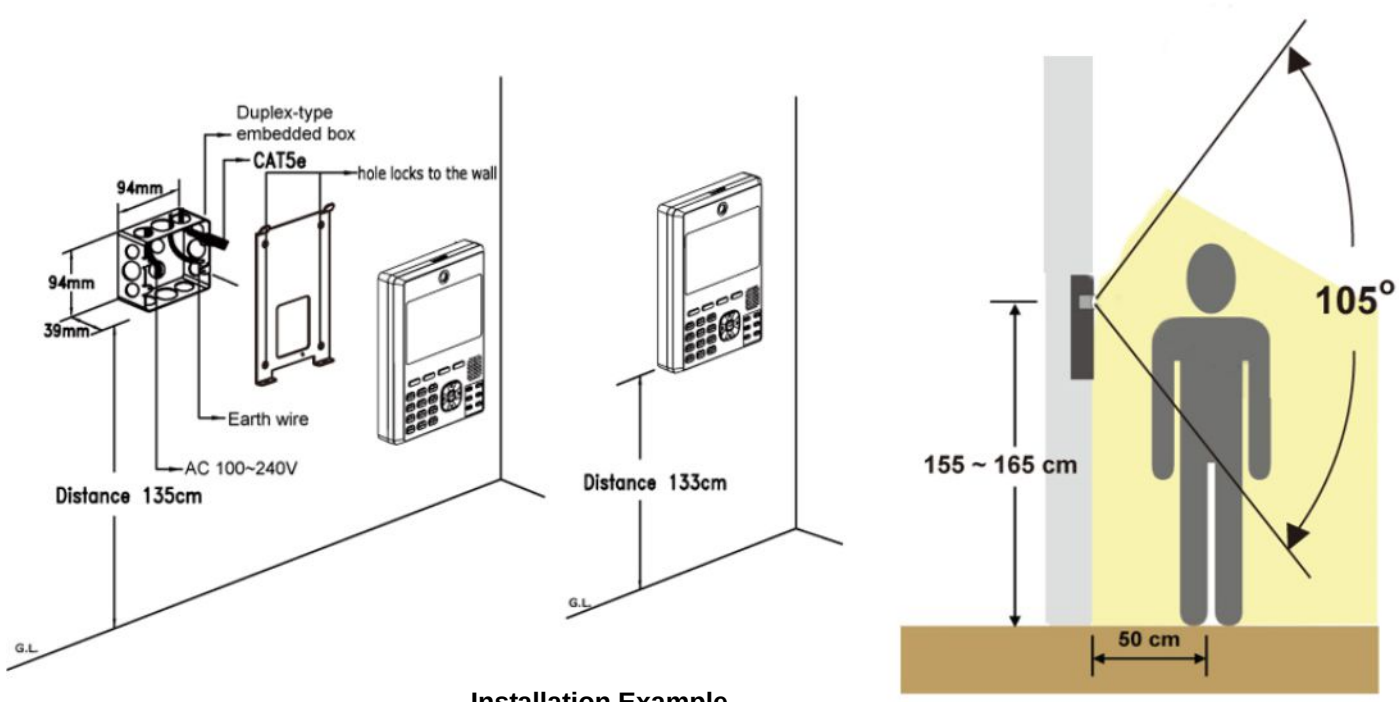
Please contact your dealer if item(s) are missing.

And those accessories put in the paper tube of box.

Suggested Installation Positions

Due to the view angle of the camera is limited, therefore the installation position for Video Indoor Station is crucial. In order to get a better view, the view angle of this door phone should be around 105. Also the height of the lens position is suggested between 155cm to 165cm according to building conditions. For more details, please refer to Diagram below.

Please reserve the space for junction wiring in the wall, you may refer to the embedded box dimension as diagram below.



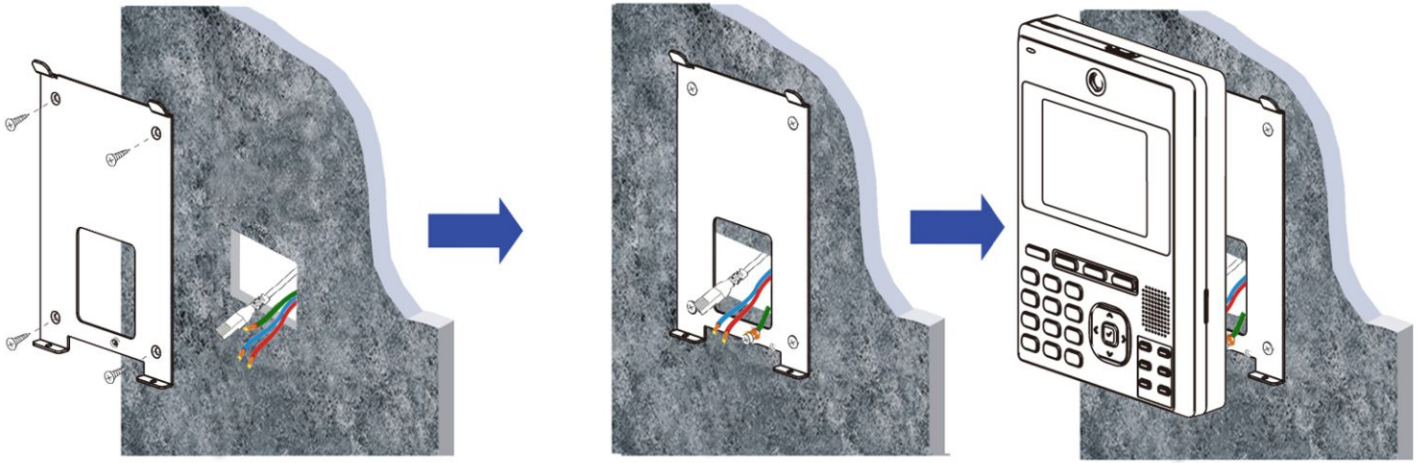
Installation Example

Installing Procedures

1. Screw the Back Plate on the Wall

Please pull out the AC wires and Ethernet cable pass through the back plate. Hence, connect with the Video Indoor Station after screw the Back Plate on the wall.

If necessary, please connect the Earth wire to the screw as Diagram below.



Screw the Back Plate on the Wall

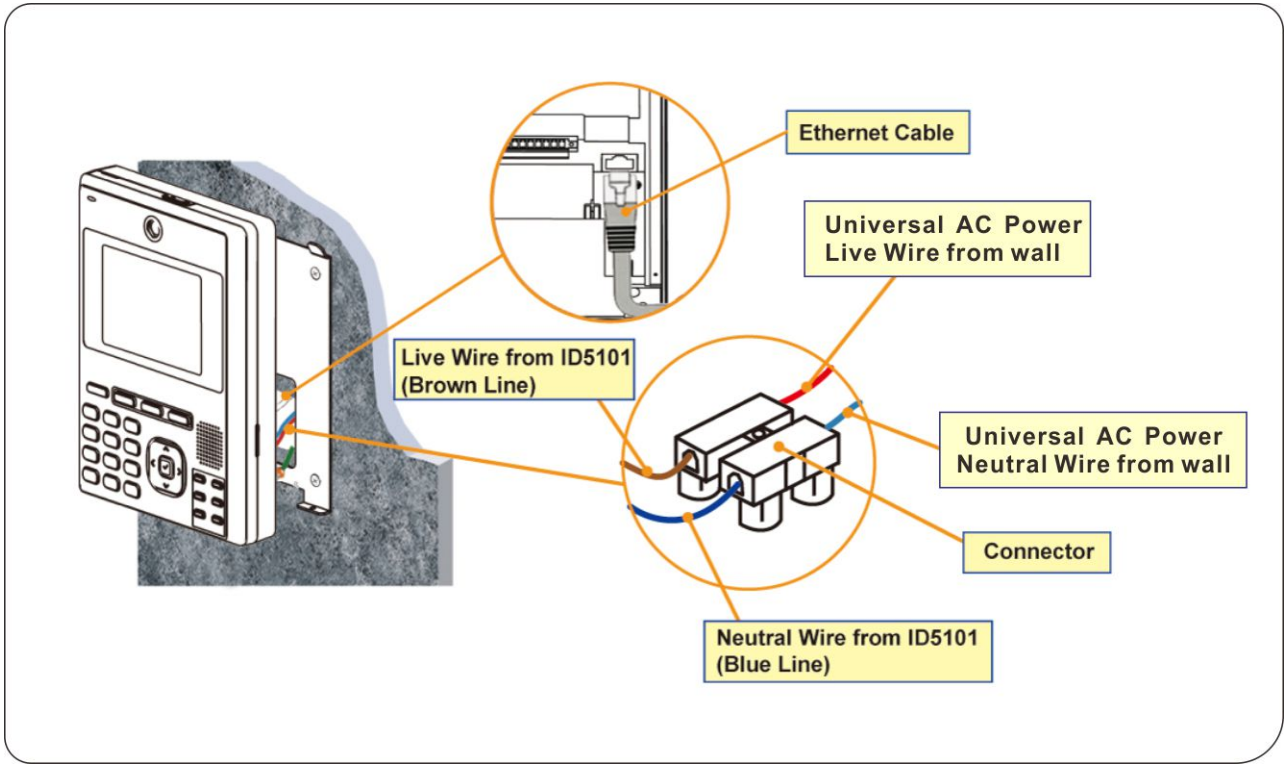
About the safety/security application requirement, please connect the control wires with I/O cable and put it in the embedded box. And then pull out the I/O cables pass through the back plate.

.

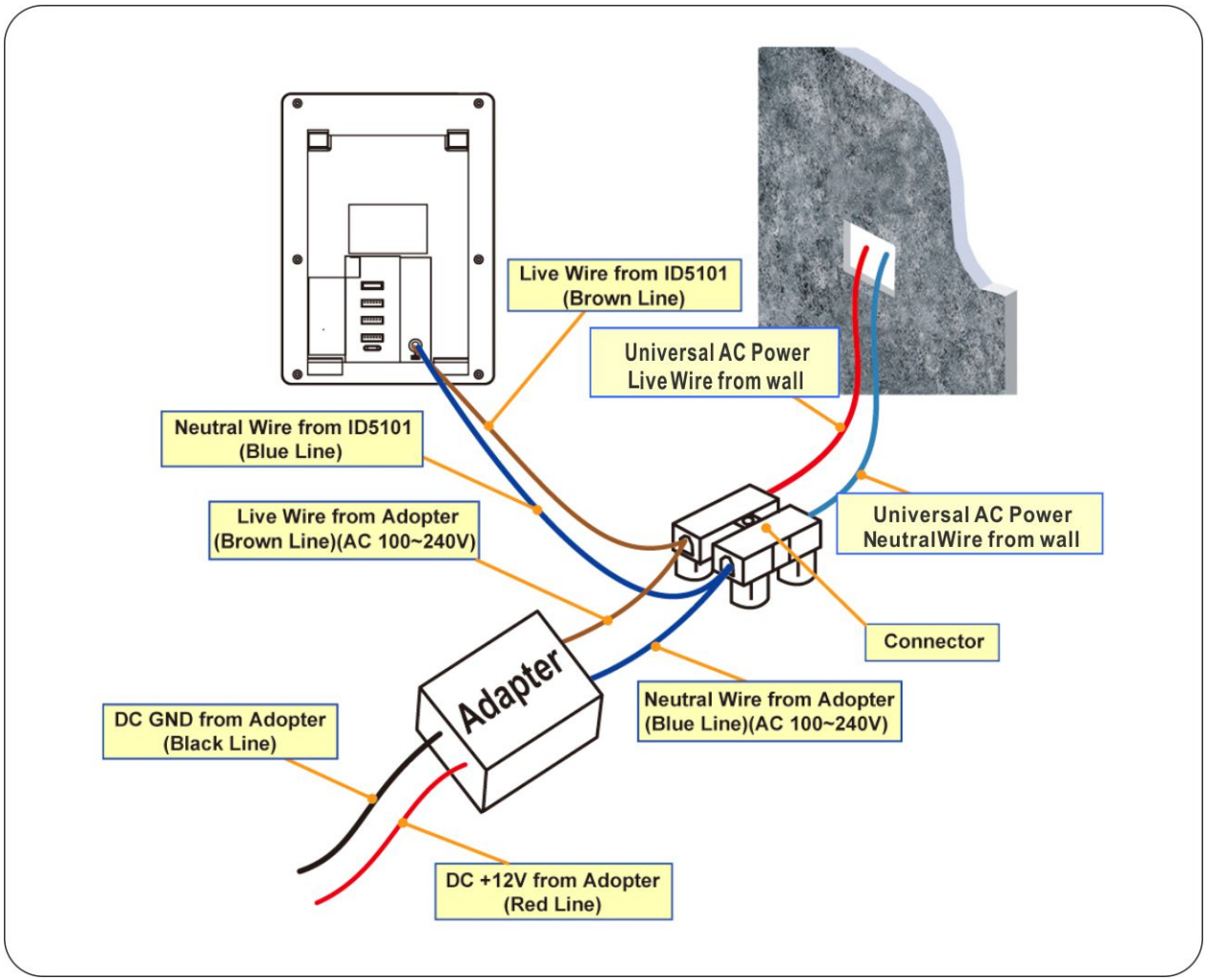
2. Connect the AC Wires and Ethernet Cable

Plug the AC cable connector of ID5101 to Power-Connecting connector, and connect Ethernet cable to ID5101 as Figure below. Be careful when you are connecting the AC wires, please check the AC condition and turn off the general power switch before you start to connect the wires.

Please connect AC wire and Adaptor as Figure below for the safety/security function.



Connecting Ethernet Cable and AC Wire



Connecting AC Wires for Safety/Security Application

For more detailed information, please refer to **Appendix: IO Circuits and Applications**.

There are 8 input ports and 4 output ports on the rear panel of the ID5101. Connection and applications are described more detailed in Appendix.

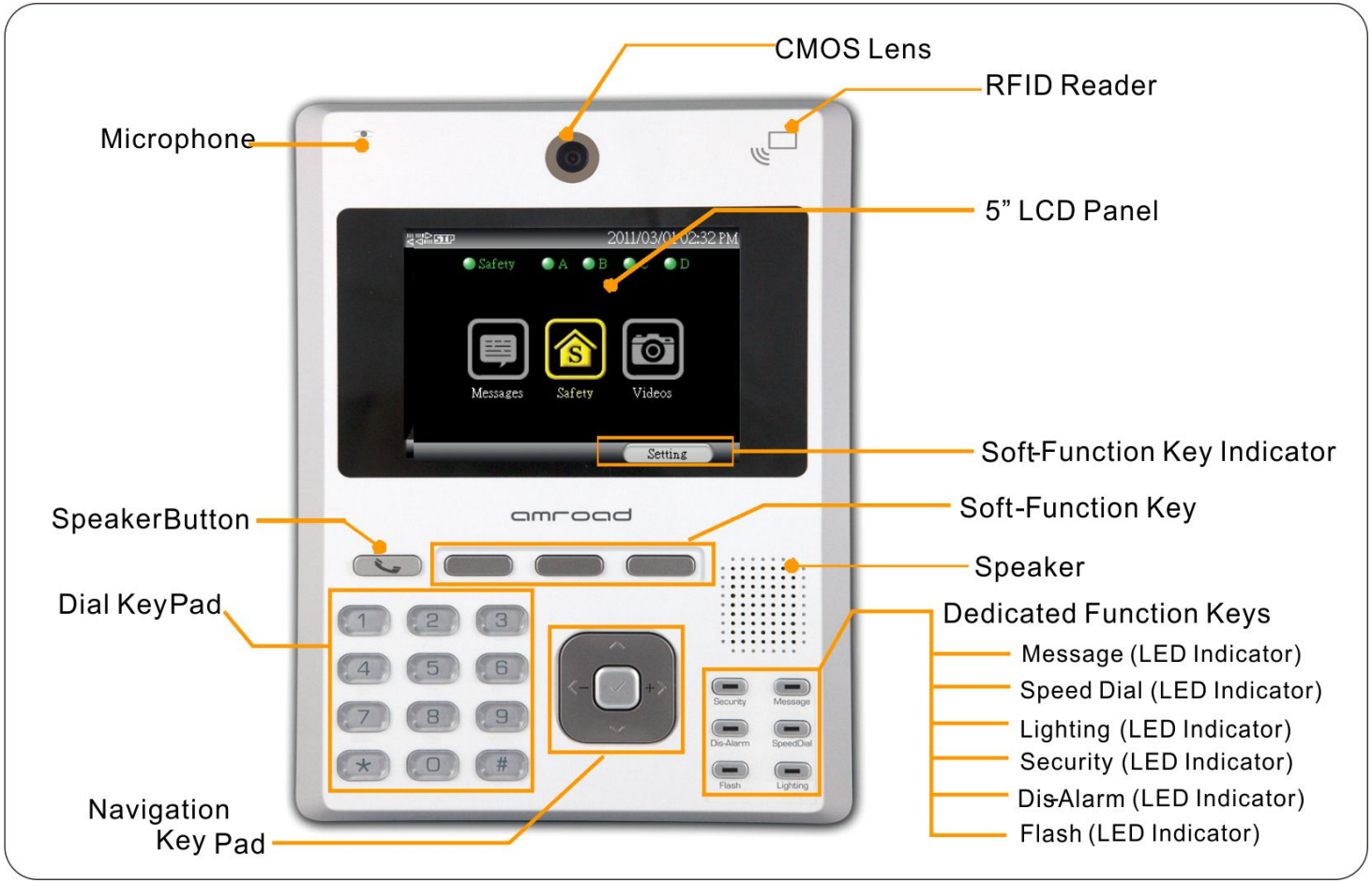
3. Screw the Video Indoor Station with Back Plate.

After connecting the wires and cables properly, then screw the 2 screws that come with the package into the front panel. Please double check all the installation procedures again, then you may power on the general power switch to start the configuration procedures.

Screw the Video Indoor Station with Back Plate wall

Chapter 3 : Using the ID5101

Knowing Your Video Indoor Station



Dedicated Function Keys

Below is the description of dedicated function keys.

Dedicated Function Keys

ITEM	Description
Message	Press **Message** function key to read the records of Alarm, Visitor, Call Records, and Community notice… while you were out.
SpeedDial	Press the **SpeedDial** function key: 1. To set up your speed-dial names and numbers. 2. To make a speed-dial (video) call by pressing number keypad.
Lighting	Two lighting devices can be connected to ID5101. Press this **Lighting** key to turn on both lamps. The two lighting devices act in the order of “On-On”, “Off-On”, “On-Off”, “Off-Off” in turn. NOTE: The maximum current for Relay Board is 2 A.
Security	While the Security Area is On, press **Security** key and enter password (default: 1111) to disable Security Area A, B, C, and D. Likewise, the lights on Security Area will become gray. NOTE: User may scan RFID card on the RFID reader to turn off Security Area.
Dis-Alarm	When alarm is triggered, user may press this **Dis-Alarm** key to stop the alarm temporarily for 30 seconds by default. (15/30/45/60 seconds set by Web UI)
Flash	While you are talking on phone, the door bell rings at the same time. User may press this **Flash** key to switch phone calls between the phone call and door phone.

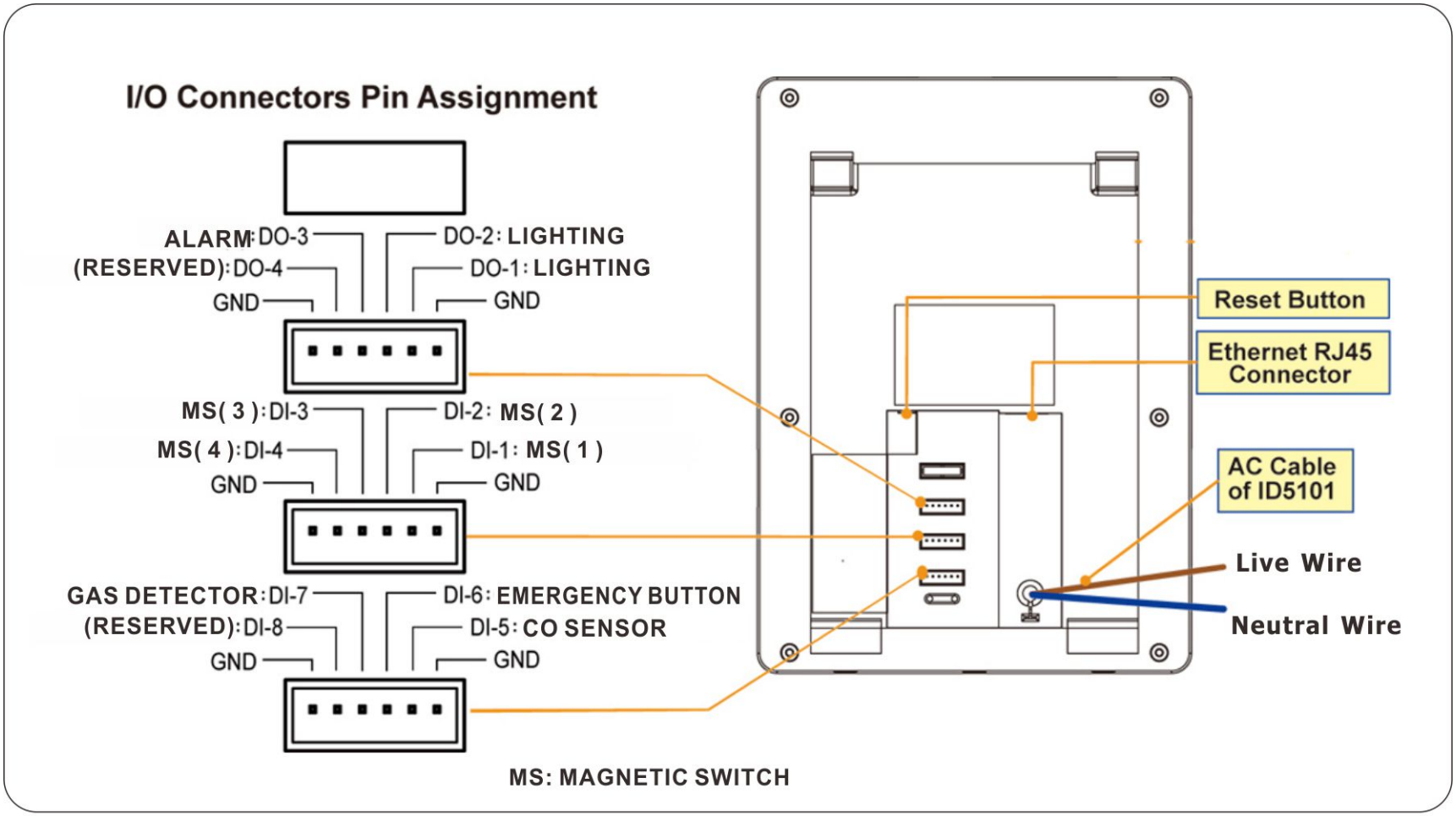
LED Indicators

There are 6 LED Indicators on Dedicated Function Keys which display different color, activity and meaning. Please refer to following table.

NAME	COLOR	LED ACTIVITY	MEANING
Security	Blue	On	Security is On.
		Blinking	Security is going to be Ready.
		Off	Security is Off.
Dis-Alarm	Red	On	Alarm is triggered. NOTE: This may be caused by triggering CO, Gas, or Emergency Button. Or, Security Area is triggered.
		Blinking	Alarm is disabled temporally.
		Off	Situation normal
Flash	Blue	Blinking	Door bell is ringing while you are talking on ID5101. NOTE: User can press this **Flash** key to switch phone calls between the phone call and door phone.
		Off	No interrupting call
Message	Red	Blinking	There are unread messages (Alarm Record, Visitor Record, or Community Notice) or missing calls.

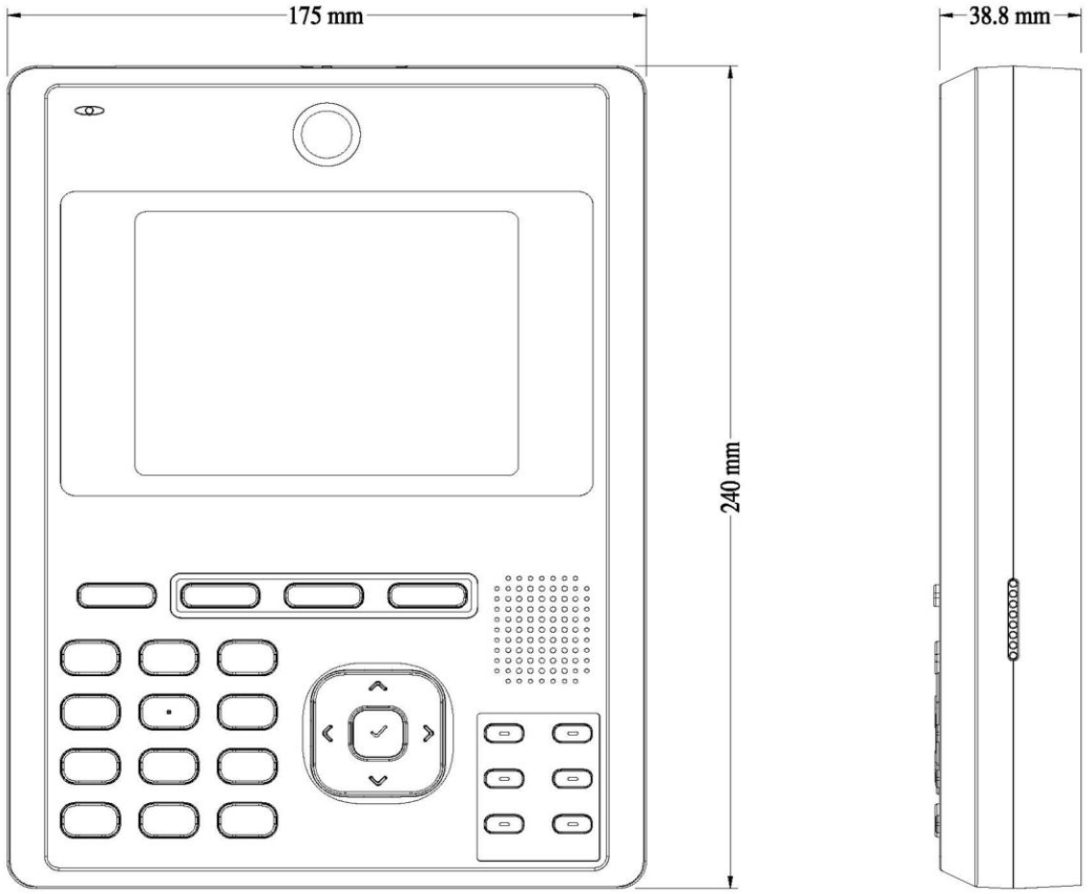
NAME	COLOR	LED ACTIVITY	MEANING
			You can press this **Message** button to view details.
		Off	No unread message
SpeedDial	Blue	On	Operating in SpeedDial mode
		Off	Not in SpeedDial mode
Lighting	Blue	On	A. Network is connected, and SIP is registered successfully. B. Hibernation (Standby) mode
		Blinking	Network is disconnected, or SIP is NOT registered.

Rear Panel

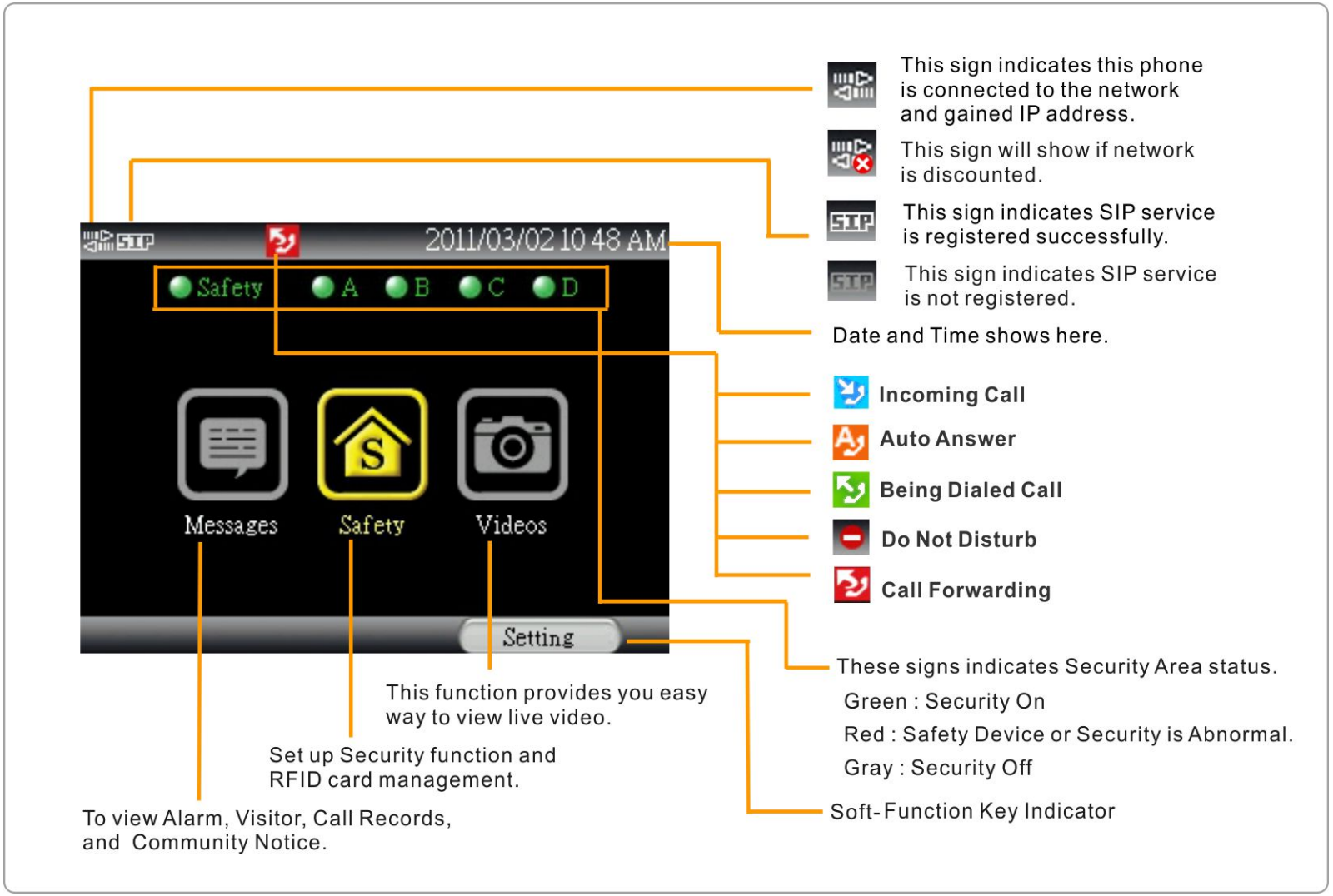


I/O Connectors PIN Assignment

Dimensions



Graphic User Interface



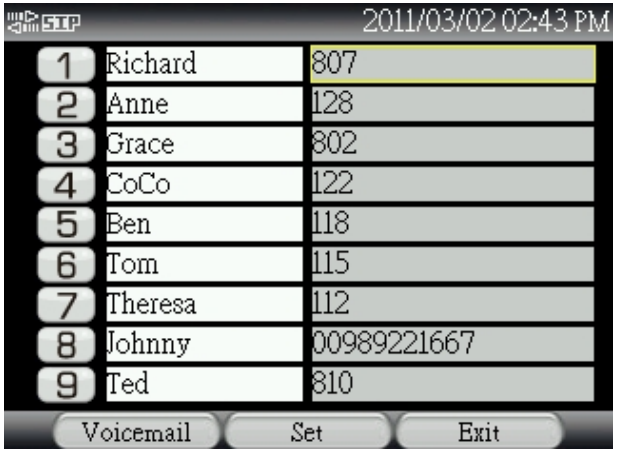
Making Phone Calls

Before you start using the Video Indoor Station, please ensure your network is connected and SIP Proxy is registered. Then, you may make a call by following ways:

- Press the Dial soft-function key and key in the phone number on the dialing field, then press soft-function key to make a video call or voice call.
- Press the SpeedDial function key and then press the speed-dial number to make a (video) phone call.

NOTE: The phone number (extension number) of your ID5101 will be displayed on top-right corner of the Dial page.

Set Up the Speed-Dial Number



You may use numeric keypads as shortcut keys to dial a (video) phone number rapidly. To bring up the Speed Dial screen, please press the dedicated function key **SpeedDial** to show up your speed-dial names and phone numbers. There are total of 9 speed-dial names and numbers from 1 to 9 can be set**.**

To dial a speed-dial call, just press the **SpeedDial** (dedicated function) key and directly press a number keypad to make a (video) phone call.

Incoming Call

When a call comes in, the phone will ring, and the caller information will be displayed on the screen. You may answer this call by following ways:

- Press key.
- Press **Answer** soft-function key.

If you want to reject this call, you may press **Reject** soft-function key.

NOTE: When the visitor is a stranger and you don't really understand his intension, you should press **Reject** soft-function key to keep you safe.

Incoming Call

Ending a Call

You may end the call by pressing . Or it will be returned back to the main page when the call is terminated.

Answer Door Phone Ringing

When visitor rings the door phone, user can see who the visitor is and decide whether to open the gate/door or not. If user wants to talk to the visitor, just press the **Answer** soft-function to talk to the guest. Otherwise, user presses **Reject** soft-function key to ignore the door phone ringing. If user wants to open the gate/door, press the key pad to open it if the Electric-Door Lock has been installed.

NOTE: To open the door by pressing the “ # ” keypad, the door must have been installed “Electrical-door Lock”.

RFID Card

RFID (Radio-Frequency IDentification) card is used to set ID5101 Security (Area A, B, C, and D) On/Off. As you know, RFID technology is also quickly becoming a popular choice in door/card access control system.

Use your added RFID card to scan RFID reader to set Security (Area A, B, C, and D) On/Off.

When you use your RFID card to set Security On, system will waits about 30 seconds to set Security On.

NOTE: Waiting time 30/60/120/180/240 is set through Web UI.

For more detailed information, please see Card Management in Chapter 4.

NOTE: ID5101 RFID Internal Module, ISO 14443A Compliant/ 13.56 MHz.

Chapter 4 : ID5101 Graphic User Interface

The ID5101 GUI (Graphic User Interface) provides user an easy-to-use interface. There are three main features on the TFT-LCD screen- Safety, Videos, and Messages. The three main features provide strong Home safety and surveillance.

The top **Safety** and **Area A, B, C,** and **D** display real-time Safety Area status. Besides, the soft-function key indicator- Setting allows you to set Network, SIP, System configuration, etc. The following sections would introduce their functions.

Safety & Security Area

On the main screen of the ID5101, you can easity see the status of Safety and Security A, B, C, and D.

The status of **Safety** indicates four safety devices including **CO Detector**, **Emergency Button**, and **Gas Detector**, and it should be always green.

The statuses of **Security Area A, B, C,** and **D** may indicate the statuses of 4 magnetic sensors that may be installed in Front Door, Balcony, Kitchen and Rear Door to guard your home safe.

COLOR – Security Status	Description
	The Green light means that security is On.
	The Gray light means that security is Off.
	The Red light means that Alarm is triggered. It may mean that someone broke in Area B.

NOTE : User can scan registered RFID card on Card Reader of ID5101 to turn Security Area A, B, C, and D On/Off.
To turn on security area, system will wait about 30/60/120/180/240 seconds for you to leave the house.
(Delay time is set by Web UI)

Safety

Home Security is emphasized by the lifestyle of modern families. More and more modern families care about safe home environment. ID5101 helps to guard your home and family safe.

Use Navigation Key pad **<-** and **+>** to select **Safety** icon, then press ✓ button to enter the Safety menu.

Again, select Safety item to enter Safety sub-menu. User can view the statuses of these home security items at a glance.

Safety Status

The Safety statuses contain 4 items:

- **Safety ABCD**
- **Detector**
- **Lighting**
- **Alarm**

COLOR: Green light means Device Workable.
Red light means Device Abnormal.

Again, you may enter Safety ABCD by pressing **Enter** button. The statuses of all four items would be displayed.

The status of Safety ABCD includes the statuses of 4 magnetic sensors that may be installed in Front Door, Balcony, Kitchen and Rear Door. In fact, each status of safety area is displayed on the main screen (Area A, B, C and D), too.

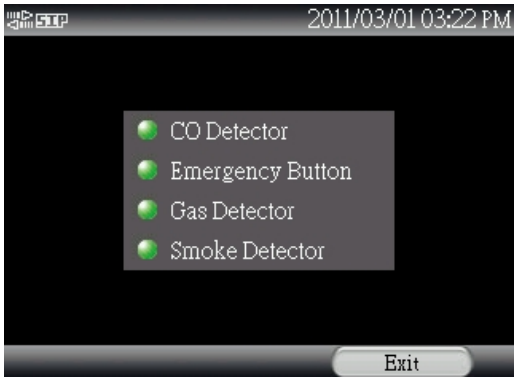
- **Front Door – MS** (Magnetic Sensor)
- **Balcony/Side Door – MS**
- **Kitchen – MS** (Magnetic Sensor)
- **Rear Door – MS** (Magnetic Sensor)

Green light means device workable.
Gray light means device disabled.
Red light means device abnormal.

NOTE: To learn how to set Security On/Off, please refer to the following section Security Group

To go back to previous screen, press **Exit** soft-function key.

Safety ABCD - Four Security Areas



Detector contains CO Detector, Emergency Button, and Gas Detector.
Lighting contains Lighting 1 and Lighting 2.

Green light means device workable.
Gray light means device disabled.
Red light means device abnormal.

These pages allow user to view statuses of safety devices. User can press **Exit** soft-function key to go back to previous screen.

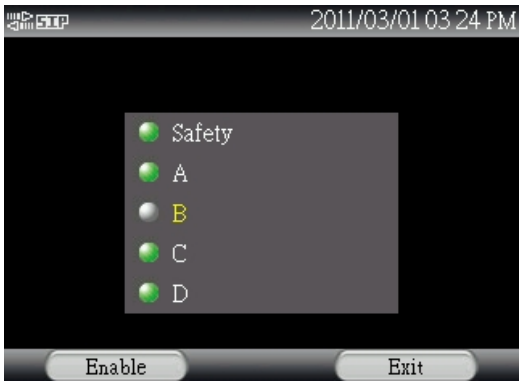
Security Group

Your registered RFID cards can be used to set Security (Area A, B, C, and D) On/Off. And, Security of four areas (Area A, B, C, and D) will be set On/Off at a time. (For more information, please refer to *RFID Card* in *Chapter 3*.)

However, Security Group lets you set individual security area's Security On/Off, and allows you to Disable/Enable **Safety** (including CO Detector, Emergency Button, and Gas Detector).

To enter Security Group, you need password (**Default password: 1111**) to enter Security Group page.

NOTE: There are two ways to set Security On/Off on your ID5101. The first is your added ***RDID Card***, and the second is ***Manual Security Group*** described in this section.



Default Password: 1111

Use Navigation Keypad "∧"and "∨"to select the item, then press soft-function key or press "✓" button to change the setting.

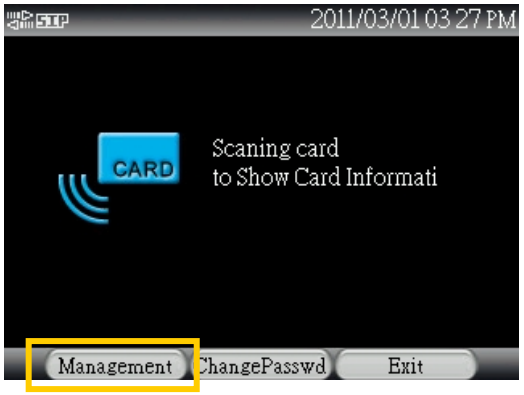
After finishing the setting, please pressing **Exit** soft-function key to go back to previous screen.

Card Management

Card Management allows you to add, edit, and delete RFID cards. You may press **Enter** soft-function key to bring up *Scan Card to Show Card Information* page.

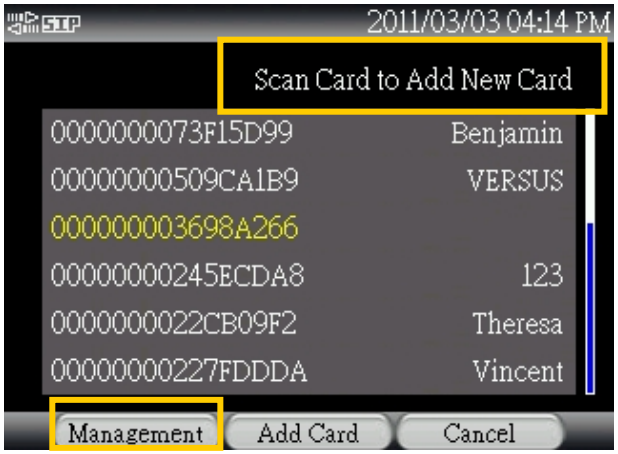
From main screen, you can select **Safety → Card Management → Enter → Management** and entering password (**Default Password: 1111**) allow user to add/delete card and edit RFID card users' information.

NOTE: If you want to change your password, press ChangePassword button to pop up a dialogue box. Input the password, and again enter your new password to change password.



Adding/Editing User Information of RFID Cards

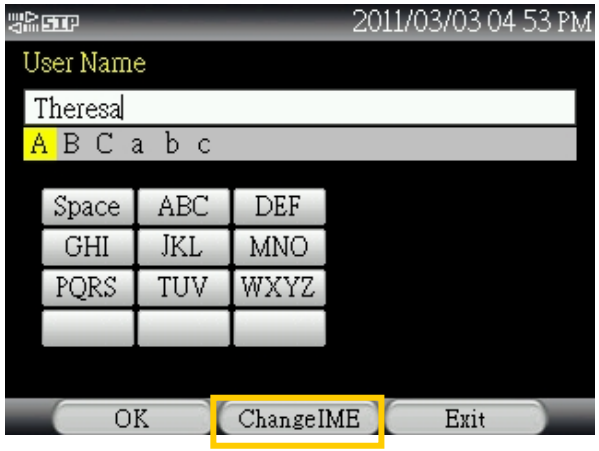
The figures below are the users' information of RFID cards that have been added to the ID5101. User may edit card information or add new RFID card.



There are two ways to add RFID card. The first is to add RFID by scanning new RFID card on card reader on the *Scan Card to Add New Card* page, and the second is to press **Add Card** soft-function key to add new Card.

The following example shows how to edit card information.

To edit card information, press [**Management→ Modify**] soft-function key to edit card information. Use [↑] and [↓] navigation keypad to select items and press **Edit** soft-function key to enter Input Method Editor.



1. To enter user information, use **Dial Key pads** and **Navigation Key pads** to select and enter number/alphabet/character/symbol for user information.

2. User may need to change input method, please press **ChangeIME** soft-function key to select proper input method.

Three kinds of IME (Input Method Editor) are available as below.

Numerical	Alphabetical	BoPoMo

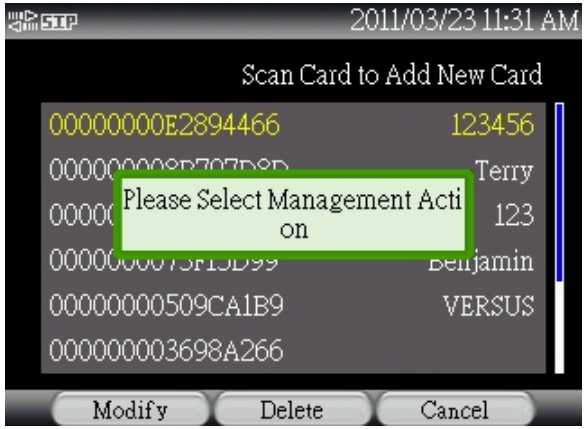
Remember to press **OK** soft-function key to save the information after you finish your input.

Deleting RFID Card

From main screen, you can select **Safety → Card Management → Enter → Management** and entering password (**Default Password: 1111**) and use [↑] and [↓] navigation keypad to select the card that you want to delete.

To delete the RFID card, press [**Management→ Delete**] soft-function key to delete RFID card. Then, the prompt "*Please Select Management Action*" appears.

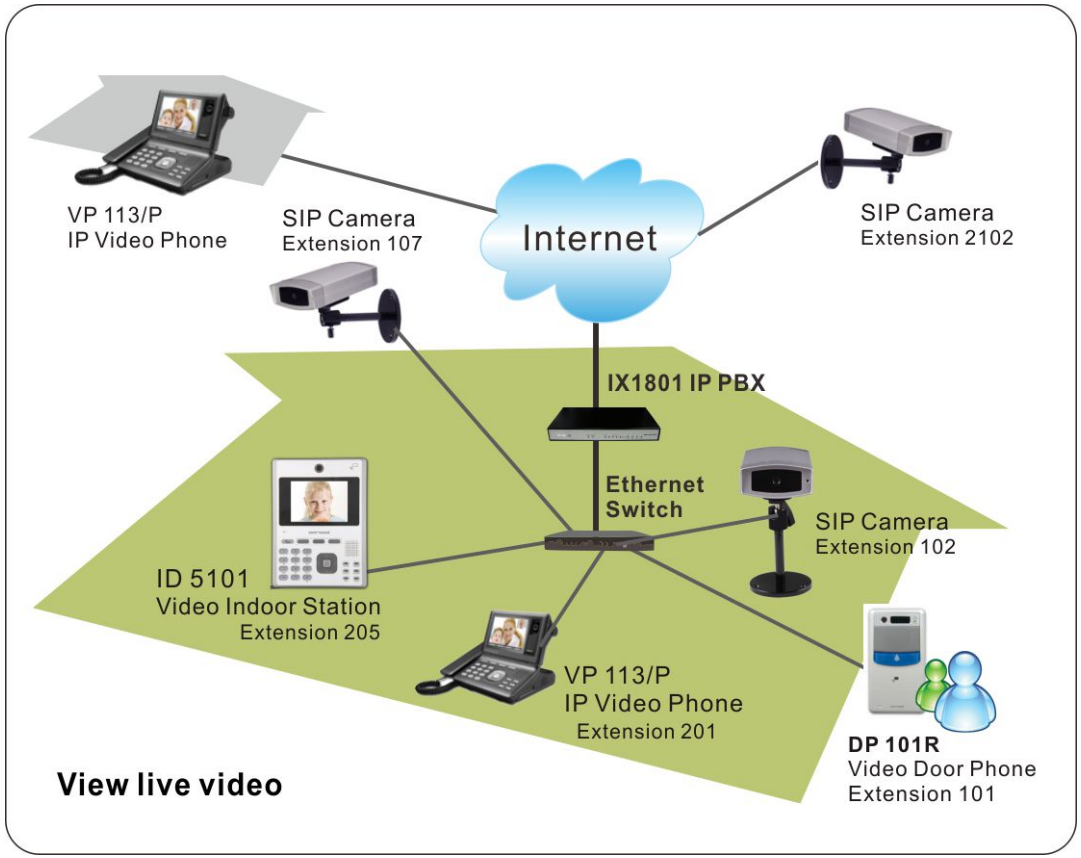
Press **Delete** soft-function key again to delete the selected RFID card.



Press *Delete* soft-function key to delete RFID card

Videos (Surveillance)

This function features video surveillance, and it allows you to access to view live videos through up to 12 live cameras (or video phones).



Connecting with IP Video Phone and Video Door Phone, your ID5101 helps to form Home Security System and keep your home safe.

ID5101 also helps to guard your premises by using it to view real-time video through SIP Camera. Or, make phone call to DP101R to view video outside the door. In fact, ID5101 features also the function of video surveillance.

Live Video

From main screen, you can select **Videos** and press **Enter "✓"** key to enter the View screen. (Refer to the right Figure)

To view live video at other room or outside the house, please select site or location by using [↑] and [↓] keys, and then press **Enter** key [✓] or press **View** soft-function key.

NOTE: The connections with other video devices are set through WEB UI.

Enabling remote viewing, your ID5101 needs to connect with other cameras/video door phones. Then, select the SIP Camera, Video Door Phone you want to view through, press **View** soft-function key to see what's happening.

Press **Change View** soft-function key to view picture-in-picture video, and you can change the video and ID5101's view in turn.

Massages

This feature provides you important and useful messages while you were out and you are home now. They include *Alarm Record, Pictures of Visitors, Call Record, and, Community Notice.*

Select **Massage** and press **Enter** key [✓] to enter the Massage screen.

The messages contain four items, and each item has record massage(s) and unread massage(s).

- **Alarm Record:** Each alarm that has occurred will be recorded (maximum 30 alarms record).
- **Visitor Record:** Each visitor will be taken 3 pictures (maximum 15 visitors). You can see pictures of visitors here.
- **Call Record:** All incoming calls, dialed calls, and missing calls will be recorded here (maximum 30 calls record).
- **Community:** This item acts like Community Notice. Community notice or Mail notice may be sent from or community management or guard room.

Alarm Record

Alarm Record records all alarms that have occurred, and it also displays the time and status of the alarms.

This symbol means the security of safety area is currently on.

This symbol means the security of safety area is currently off.

This symbol means the alarm is manually dis-alarmed temporally.

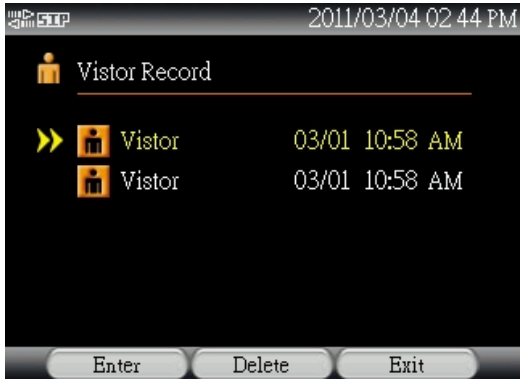
This symbol means the alarm is triggered.

This symbol means the alarm is all clear.

Visitor Record

When visitor rings the door bell of **DP101R** (Video Door Phone), three pictures will be taken and send to your ID5101.

Visitor may come to your house while you were out, and you can see who came to visit you when you are home. Press **Enter** soft-function key to view pictures of your visitors.



NOTE: To have the pictures of visitors, you must have installed AmRoad Video Door Phone series as your Video Door Phone.

Call Record

Call Record displays calls including incoming calls, dialed calls, and missing calls, and it also shows the time of the calls.

The maximum number of the calls in Call Record is 30. You may delete less important calls in Call Record manually by pressing **Delete** soft-function key.

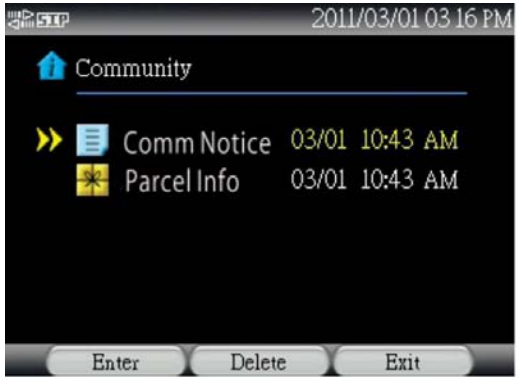
To go back to previous screen, press **Exit** soft-function key.

Community

There are two kinds of messages on Community. The first is Community Notice, and the second is Mail Notification.

These messages are sent to your ID5101 by community management or guardroom.

Press **Enter** soft-function key to view detailed information.



NOTE: To have the function of Community Notice and Mail Info, user needs to install AmRoad ICMS (Intelligent Community Management Server).

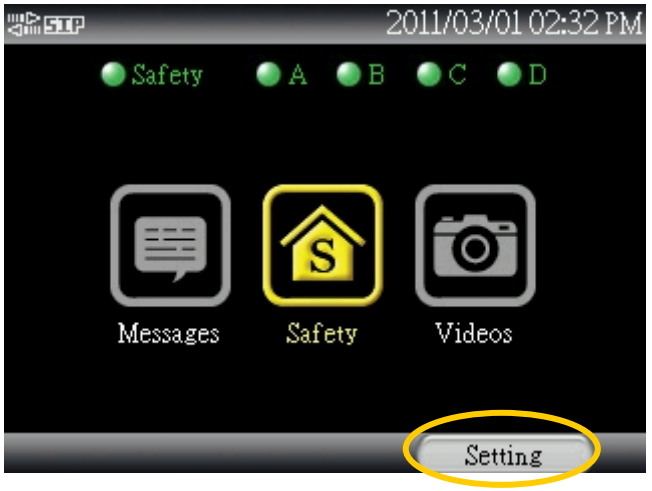
Chapter 5 : Setting Up The ID5101

This chapter describes how to set up your Video Indoor Station. You may press **Setting** soft-function key to enter this Setting page. There are 8 major items for configuration:

- **System Setting**
- **Video Setting**
- **Audio Setting**
- **Network Setting** (Password protected)
- **SIP Setting** (Password protected)
- **Streaming Setting** (Password protected)
- **Service Setting** (Password protected)
- **Screen Saver Setting**

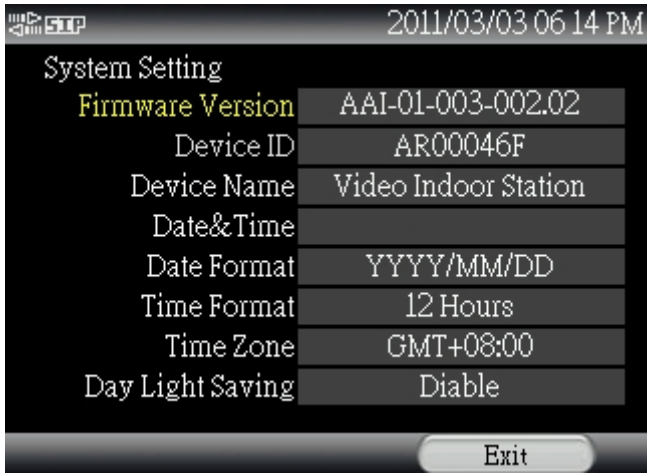
You may use [↑] and [↓] keys to select preferred item, and then press Enter key [✓] or press **Enter** soft-function key to take further actions.

NOTE: 1. Network Setting, SIP Setting, Stream Setting, and Service Setting are protected by password. (**Default password: 1234**)
2. This setting password is different from Security password.



System Settings

This setting contains some basic system settings of this device.
These settings allow general users to set up this Video Indoor Station according to their preferences.



ITEM	Description
Firmware Version	The current firmware version of your Video Indoor Station
Device ID	This ID is a unique number giving by manufacturer to identify this device on networks. It is fixed and not revisable.
Device Name	This item allows user to give a name to this device. You can use this name to identify this particular device if you have more than one Video Indoor Station on the same network. You can rename it by using **Edit** soft-function key.
Date & Time	You can input your local date and time in this field.
Date Format	You can select preferred date format at this field. There are 3 formats available: YYYY/MM/DD, MM/DD/YYYY and DD/MM/YYYY. Use [↑] and [↓] keys to select preferred one, then press OK to confirm selection.
Time Format	You can select preferred time format at this field. There are 2 formats available: 12 hours and 24 hours system. You may use [←] and [→] keys to select preferred format.

Time Zone	You may select preferred time zone in this field. This Time Zone is based on GMT (Greenwich Mean Time) system. There are total 33 selections, from GMT-12:00 to GMT+13:00. You may use [↑] and [↓] keys to select your Time Zone. For example: Taipei is GMT+08:00
Day Light Saving	This item allows you to enable or disable “Day-Light- Saving” function. This phone will adjust the time automatically according to globe standard if enabled.

Video Settings

This setting contains 6 parameters that you may use to adjust video streaming and quality:

ITEM	Description
Default Video	This item allows you enable or disable video streaming. Phone calls will be voice only if “Off” is selected. Default setting is **On**.
Video Quality	This item allows you to select preferred video quality. There are 5 options: **Excellent**, **Good**, **Average**, **Acceptable** and **Worst**. Please note that better quality creates higher bit-rate and requires larger bandwidth. NOTE: We strongly suggest that you select **Average** for your setting because **Excellent** is for static video and **Low** is for motion picture.

Video Color	This item allows you to adjust color balance of the camera module. There are 4 options: **White light**, **Yellow light**, **Red Light** and **Deep red light**. Please select a suitable one to meet your room lighting environment. Default setting is Yellow light.
Video Brightness	This item allows you to adjust brightness of the camera module. There are 10 levels, from 0 to 9. Higher number gives brighter image. Default setting is 2.
LCD Brightness	This item allows you to adjust lightness of LCD panel. There are 10 levels, from 0 to 9. Default setting is 9.
Video Freq.	This item allows you to select the power frequency according to your local power specifications. There are 2 options: 60Hz and 50Hz. Please check with your local power company if you are not sure the correct value.

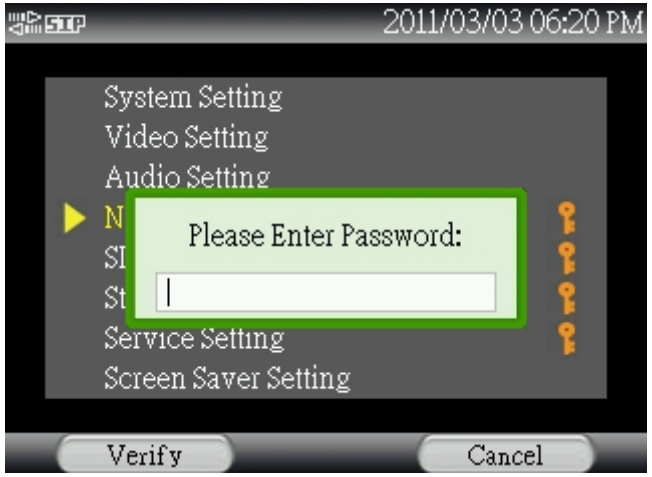
Audio Settings

This setting contains 2 parameters for adjusting audio qualities:

ITEM	Description
Handfree Vol	This item allows you to set volume of speaker. There are 10 levels, 0 ~ 9. Default setting is 4.
Ringer Vol	This item allows you to set volume of ring tone. There are 10 levels, 0 ~ 9. Default setting is 4.

Network Settings

This setting allows you to set up the important parameters of network connection, and it is protected by password.

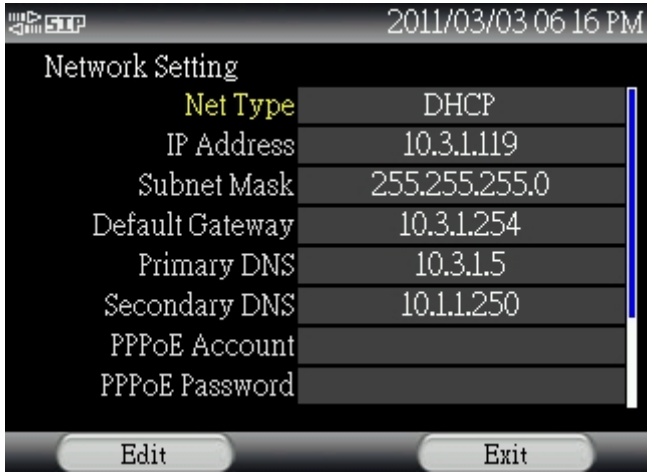


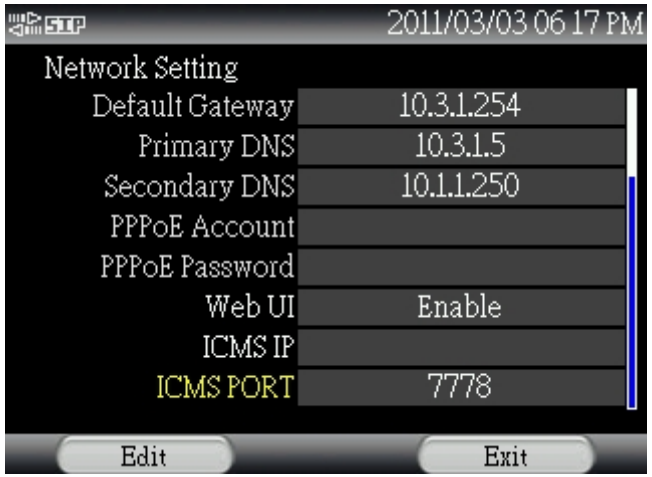
NOTE: You need to enter password to enter “Network Setting”. Default password is “**1234**”. You may change password by using **Chg Password** soft-function key.

There are 9 items in this option.

ITEM	Description
Net Type	This item allows you to select type of IP address of this device. There are 3 options DHCP, Static IP and PPPoE,

	the default is DCHP. ◆ **DHCP** - If you wish to connect this device to a exist network and get dynamic IP address from the DHCP server, please select this one. You will see all other items in this mode are grayed out. In most of cases, DHCP Client is used for connecting LAN (Local-Area-Network). ◆ **Static IP** - If you wish to use fixed IP address to connect to network, you may select this one. You may get Fixed IP when you applying SIP service from carriers or operators. You will see last 2 items for PPPoE are grayed out. Please follow instructions below to setup other parameters for Fixed IP. ◆ **PPPoE** - This selection is for connecting ADSL modem directly. Your phone will trigger ADSL model to connect to Internet automatically when you are dialing phone number.
IP Address	You may fill in IP address here if Fixed IP is selected.
Subnet Mask	You may fill in Subnet Mask address here if Fixed IP is selected.
Default Gateway	You may fill in default gateway address here if Fixed IP is selected.
Primary DNS	You may fill in primary DNS server address here if Fixed IP is selected.
Secondary DNS	You may fill in secondary DNS server address here if Fixed IP is selected.
PPPoE	You may fill in PPPoE account ID or name here if PPPoE is





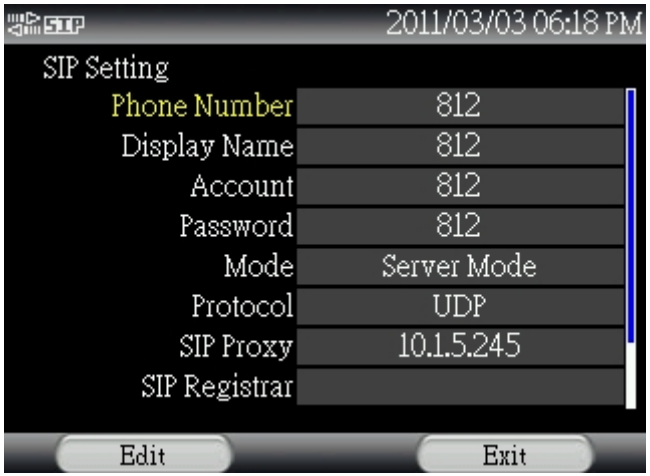
Account	selected in IP type selection.
PPPoE Password	You may fill in PPPoE account password here if PPPoE is selected in IP type selection.
Web UI	This item allows you enable or disable the Web-User-Interface HTTP service. Web UI will be not available if disabled.
ICMS IP	The IP address of ICMS (Intelligent Community Management Server). NOTE: Your ID5101 needs to be connected to AmRoad ICMS system.
ICMS Port	The IP address of ICMS (Intelligent Community Management Server). NOTE: Your ID5101 needs to be connected to AmRoad ICMS system.

SIP Setting

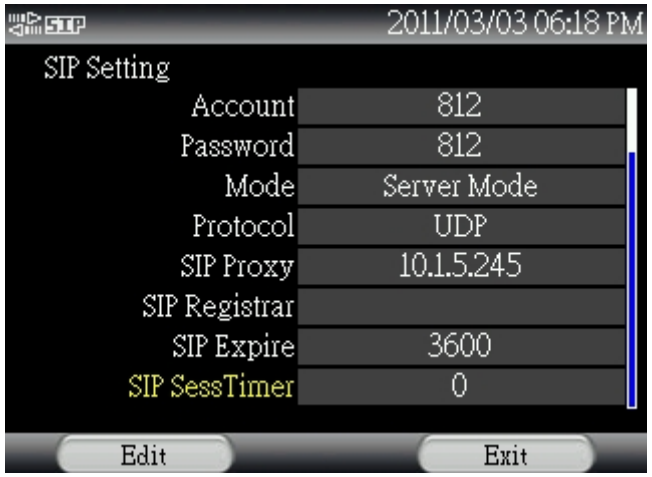
This setting allows you to se up necessary parameters of SIP services and it is password protected. Default password is "**1234**". You may change password by using **Chg Password** soft-function key.

There are 10 parameters for setting the SIP service:

ITEM	Description
Phone Number	The phone number of your ID5101. Normally it is provided by service provider. You can also set an extension number here if connecting to an IP PBX.



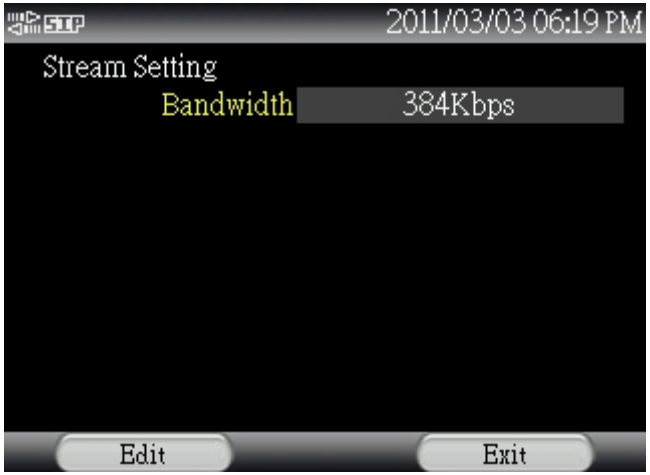
Display Name	Initial of Display Name. This name will show on the IP phone of called parties. You may fill in the preferred name here.
Account	You may fill in your account name of SIP service here.
Password	You may fill in the password of your SIP service account here.
Mode	This item allows you to select the working model of SIP service. Select "**Server Mode**" mode if this phone is connected to a SIP server or IP PBX. Default setting is "**Peer-to-Peer Mode**".
Protocol	You may select the correct low level communication protocol here. There are 2 options: **UDP** and **TCP**. You have to confirm which one the service is using from your service provider. Default setting is UDP.
SIP Proxy	You may fill in IP address or domain name of the SIP Proxy Server here.
SIP Registrar	You may fill in IP address or domain name of SIP Registrar Server here.
SIP Expire	Initial of Registration Time. This item is a parameter of SIP service. You may fill in the effective registration period of SIP service here. You have to contact your service provider to get correct setting. Default setting is 3600 seconds.



SIP Sess Timer	Initial of Session Timer. This is a parameter of SIP service. You may fill in the Session Timer period of SIP service. You have to contact your service provider to get correct setting. Default setting is 0 seconds.

Streaming Setting

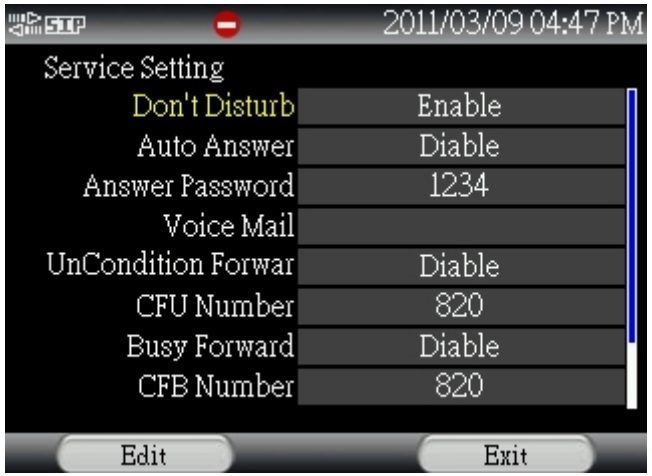
This section allows you to adjust necessary parameters for audio and video streaming and it is password protected. Default password is "**1234**". You may change password in Chg Password soft-function key.



ITEM	Description
Bandwidth	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.

Services Setting

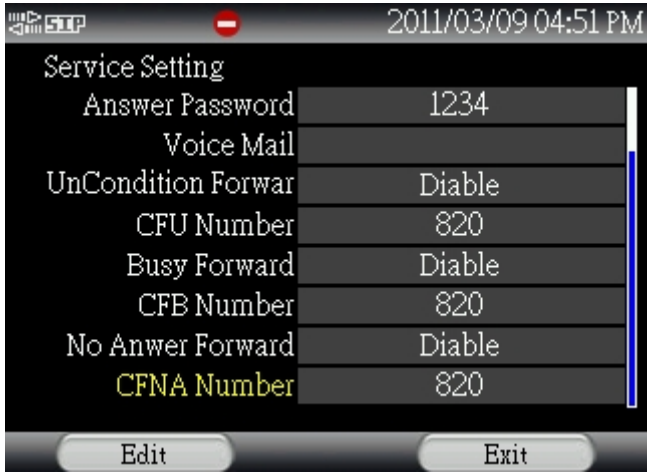
You can set up call services of this Video Indoor Station here and it is password protected. Default password is “**1234**”. You may change password by using **Chg Password** soft-function key.



Don’t Disturb is Enabled

ITEM	Description
Don’t Disturb	All phone calls will be rejected if this service is enabled. Caller will here voice message to inform you the phone is busy when call this number. Default is “Disable”.
Auto Answer	This feature allows this phone to answer incoming call automatically. There are 4 options: Disable and Immediately, 6 seconds and 10 seconds. Default is “Disable”.
Answer Password	In order to prevent video will be streamed out accidentally, when Auto-Answer is enabled, a password is used to protect the privacy. You may input password in this field. The length of the password is set to 32 characters. Default password is “1234”.
Voice Mail	Enter the number for your Voice Mail box
UnCondition Forward	To select “Enable” or “Disable” for UnCondition Forward
CFU Number	All the phone calls will be forwarded to the number if UnCondition Forward is enabled.
Busy Forward	To enable/disable Busy Forward function

CFB Number	The phone calls will be forwarded to the number if Busy Forward is enabled.
No Answer Forward	To select Disable, 10 seconds, 20 seconds, 30 seconds for No Answer Forward function
CFNA Number	The phone calls will be forwarded to the number if No Answer Forward is not disabled.



Screen Saver Setting

This Video Indoor Station comes with Screen Saver features.

ITEM	Description
ScrSaver Type	It is only one screen saver type “Time Clock”.
ScrSaver on	You may select starting time of screen saver here. There are 4 options: 1 minute, 3 minutes, 5 minutes and Never.
LCD Off	You may select screen off executing period here. There are 6 options: 5 Minutes, 10 Minutes, 30 Minutes, 1 Hour, 2 Hours and Never.

Screen Saver - Clock

Chapter 6 : Configuring via Web UI

This chapter describes how to configure your ID5101 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 6 sections and total 13 pages:

- **System**
  - **Basic**
  - **Network**
  - **Login ID**
  - **Reboot**
- **Phone Settings**
  - **Video**
  - **Audio**
- **SIP Settings**
- **Safety & Security**
  - **Device Settings**
  - **Alarm Notice**
- **Surveillance**

NOTE 1: To obtain IP address of your ID5101.
Select **Setting** soft-function key
→ **Network Setting**
(with password: default:1234)
→ **IP Address**
And you will find IP address of the ID5101 on the network.

Input IP address of your ID5101

NOTE 2: The default ID and password for system login are "**admin**" and "**admin**".

- **Upgrade**

  Upgrade

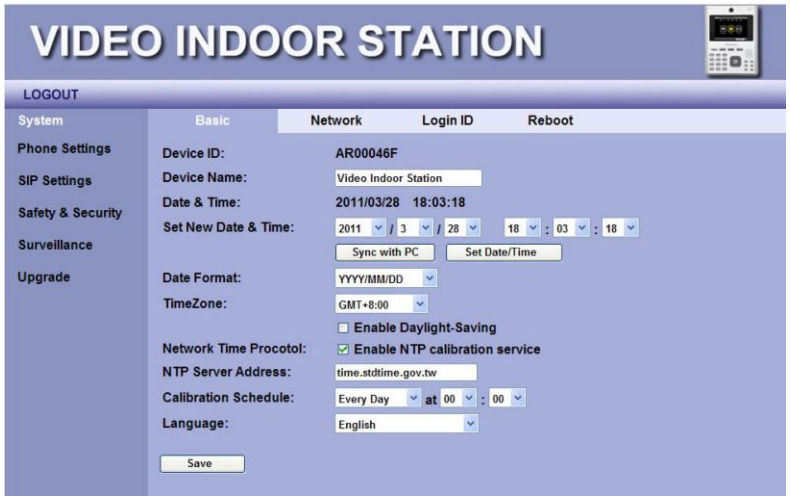
  Config

  APS

System

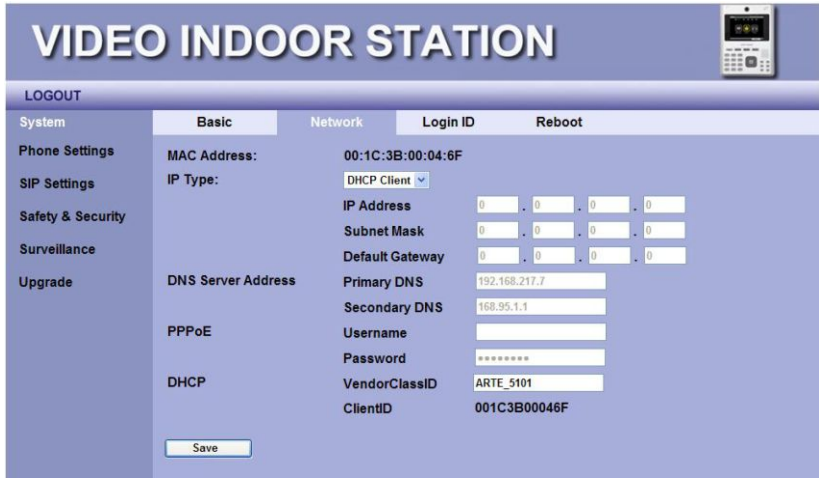
System Basic Settings

Item	Description
Device ID	This ID is a unique number that assigned by manufacturer.
Device Name	The field allows user to give a specified name for identification such as “Smith Family”.
Date & Time	Here shows date and time set on this phone.
Set New Date & Time	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 “**Sync with PC**” button.
Date Format	You can select preferred date format at this field. There are 3 formats available: YYYY/MM/DD, MM/DD/YYYY and DD/MM/YYYY.



Item	Description
Time Zone	This field allows you to select your time zone to fit your location. You can enable the Daylight-Saving feature if needed.
Network Time Protocol	Enable this protocol allows the system to calibrate the time with NTP server through Internet.
NTP Server Address	You may use your preferred NTP server by input new address here.
Calibration Schedule	You may select when that you wish to do this NTP calibration.
Language	You can select language “**English**” or “**Traditional Chinese**”. The selected language will be displayed on your ID5101 GUI.
Save	Click this button to save your setting.

Network Setting

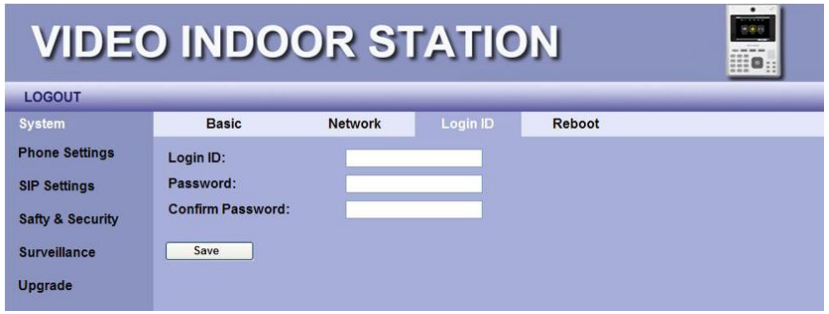


Item	Description
MAC Address	This is a quasi-unique identifier attached to most network adapters.
IP Type The default value is DHCP Client. There are three options: DHCP Client, Fixed IP and PPPoE.	
	A. **DHCP Client:** The system will automatically assign you an IP address.

	B. **Fixed IP:** you have to input *IP address*, *Subnet Mask*, *Default Gateway*, *Primary DNS* and *Secondary DNS* data.
	C. **PPPoE:** This allows you to set Internet connection with *User Name* and *Password*.
Save	Click this button to save your setting.

System Login ID

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.



System Reboot

When user needs to reboot his ID5101 remotely, just click "**Reboot**" button on this webpage to start this action. After confirm rebooting, Web UI will back to the home page, but the video Indoor station may take 10~30 seconds to restart its system.

Phone Settings

Video Settings

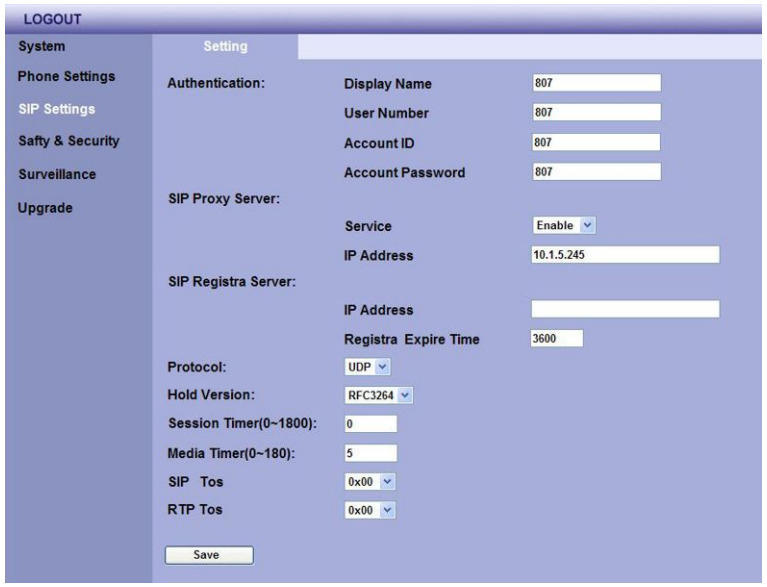
Item	Description
Bandwidth	You may select preferred bandwidth for video and audio streaming. There are 4 options: 128Kbps, 256Kbps, 384Kbps, and 512Kbps. Please check which bandwidth is suitable for you with your service provider.
Codec Priority–	**First** – You may select the Video streaming priority - H.263 or MPEG4.
	Second –You may select the Video streaming priority - H.263, MPEG4, or Disable.
RTP Port	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 **9000**.
	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 **100**.
Save	Click this button to save your setting.

Audio Setting

ITEM	Description
Code Priority	**First** – You may select the Audio streaming priority – G.711U, G.711A or G.729.
	Second –Select the Audio streaming priority – G.711U, G.711A, G.729 or Disable.
	Third –Select the Audio streaming priority – G.711U, G.711A, G.729 or Disable.
VAD	You may enable or disable **Voice-Active-Detection** function here. The ID5101 will detect background noise and send silence packet to the other end if this feature is enabled.
CNG	You may enable or disable **Comfortable-Noise-Generate** function here. The ID5101 will generate background noise when receiving silence packet from the other end if this feature is enabled.
Save	Click this button to save your setting.

SIP Settings

You may setup advanced SIP service parameters in this webpage:

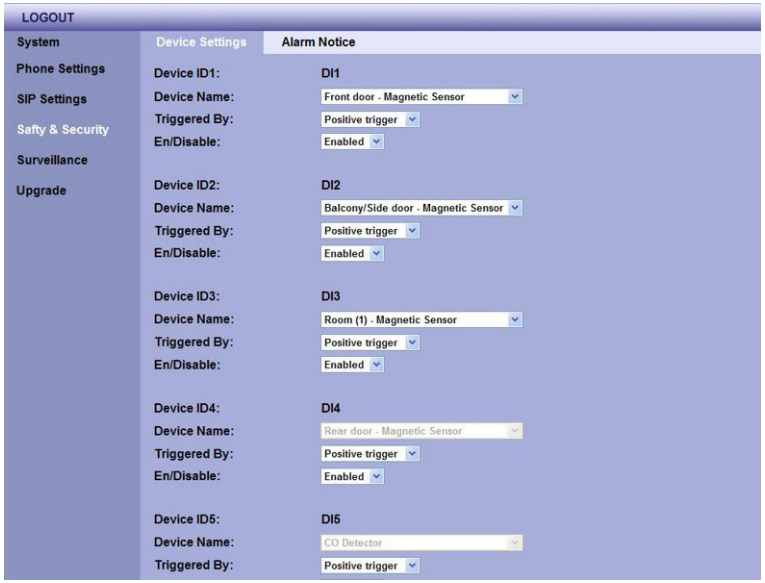


Item	Description
Authentication	
Display Name	This name will be shown on the IP phone of called parties. You can fill in the preferred name here. For example, 807
User Number	You may fill in the phone number here, normally it is provided by service provider. To work with IP PBX, you may fill in extension number. For example, 807
Account ID	You may fill in your account name of SIP service in this field. For example, 807
Account Password	You may fill in the password of your SIP service account. For example, 807
SIP Proxy Server	
Service	You may select “Enable” or “Disable” the SIP Proxy Server in the dropdown menu. NOTE**:** For **Peer-to-Peer** mode, user needs to select **Disable** in the dropdown menu.
IP Address	You may fill in the IP address of SIP Proxy Server in this field.
SIP Registrar Server	

ITEM	Description
IP Address	You may fill in the IP address of SIP Registrar Server here.
Registration Expire Time	The default is 3600 seconds.
Protocol	You may select network communication protocol of the SIP service here. There are 2 options: UDP and TCP. **Default** setting is UDP protocol.
Hold Version	This setting is configured differently depending on which SIP proxy server is being connected. The SIP proxy server may support generally two type of call hold, RFC2543 and RFC3264. Please contact SIP proxy server provider for detailed information.
Session Timer	You can set the session timer here. The range is from 0 to 1800 seconds. Default is 0 second.
Media Timer	This setting allows your 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. If you want to disable this feature, please fill in "0" sec.
SIP TOS	You may enable Tag-of-Service of SIP protocol here.
RTP TOS	You may enable Tag-of-Service of RTP protocol here.
Save	Click this button to save your setting.

Safety & Security

Device Setting



This page is used to configure Safety and Security devices.
There are **8 Input ports (DI1~DI8)** and **4 Output ports (DO1~DO4)** available on ID5101 GPIO module.

Moreover, DI1-DI4 are for MS (Magnetic Sensors), DI5-DI8 are for CO sensor, Emergency Button, and Gas detector.

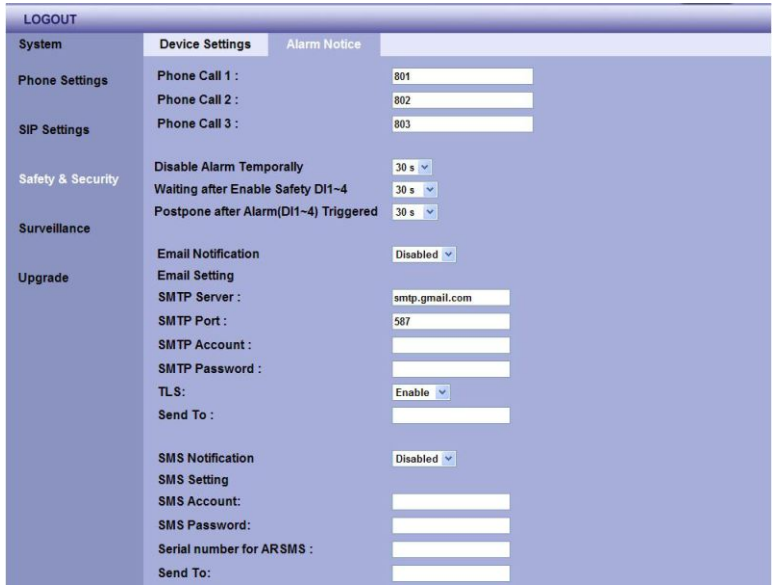
DO1-DO3 are for Lighting, Lighting, Alarm. (DO4 is reserved).

ITEM	Description
Device Name	In the drop-down menu, select the device name that your ID5101's GPIO port is connected to.
Triggered By	For 8 Input ports only, user may select "Positive" or "Negative". NOTE: This means user can define the light status (Green or Red) on your ID5101 Safety Sub-menu.
En/Disable	Select "Enable" or "Disable" User may select "Disable" when the ID5101's GPIO port is not connected to any device.

NOTE: If user doesn't install some safety device, we suggest SI select "Disable" so that the safety device will be displayed as gray light on ID5101.

Alarm Notice

Once any device of your safety device is triggered, the alarm will be started, and 1~3 phone calls will be sent out automatically by system. Besides, an email and up to 3 SMS will be sent to specific persons to inform that alarm occurs.



Item	Description
Phone Call 1	When the alarm is started, system will make a phone call to the phone number.
Phone Call 2	If Phone Call 1 doesn't answer the phone, system will continue to call Phone Call 2.
Phone Call 3	If Phone Call 2 doesn't answer the phone, system will continue to call Phone Call 3.
Disable Alarm temporally	Select the time period- 15/30/45/60 seconds. System will temporarily stop the alarm for the time period after pressing the **Dis-Alarm** Dedicated Function Key.
Waiting After Enable Safety DI1~4	Select the time period- 30/60/120/180/240 seconds from drop-down menu. System will wait to enable Safety (DI1-DI4) for user to leave house.
Postpone After Alarm (DI1~4) Triggered	Select the time period- 30/60/120/180/240 seconds from drop-down menu. System will wait to start alarm when any safety device (DI1~DI4) is triggered. .
Email Notification	Select "Disable" or "Enable"

Email Setting	
SMTP Server	Fill in address of SMTP Server. For example, **smtp.gmail.com**
SMTP Port	Port number for SMTP Server. For example, **587**
SMTP Account	Account for SMTP server
SMTP Password	Password for SMTP server
TLS	TLS (Transport Layer Security) protocol over SMTP offers certificate-based authentication and helps provide security-enhanced data transfers.
Send to	Email address for
SMS Notification	Select “Disable” or “Enable”
SMS Setting	
SMS Account	Enter the account of SMS NOTE: The SMS(s) will be sent via TW SMS. For more detailed information, please contact AmRoad.
SMS Password	Enter the password of SMS
Serial number for AR SMS	Enter a specific AR Serial Number for sending SMS, and user does not need to enter above account and password. NOTE: For more detailed information, please contact AmRoad.
Send To	The first cell phone number to receive alarm SMS
Send To	The second cell phone number to receive alarm SMS
Send To	The third cell phone number to receive alarm SMS
Save	Click this button to save your setting.

Surveillance

This page allows you to set up to 12 cameras/video phones' location and call number to view live video to pay more care to your house and guard your home safe.

After completing installation and setting, ID5101 lets you view live video and you will know what's happening.

Item	Description
Location Name	Assign location name to the device (camera/video phone).
Call Number	Enter the call number of the device (camera/video phone).
Save	Save your setting.

Upgrade

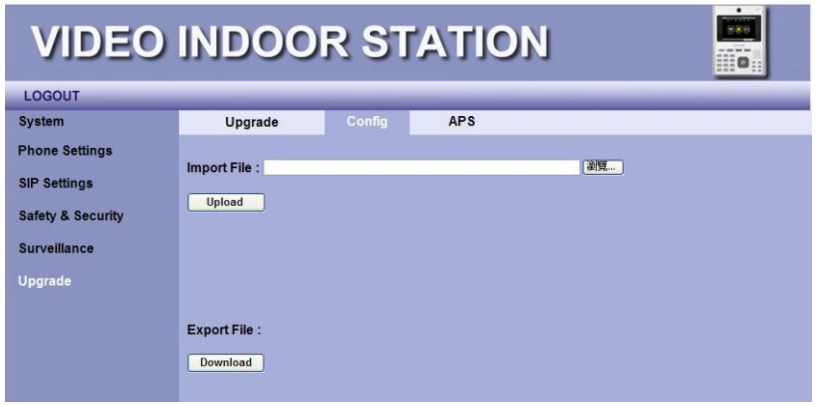
The Upgrade function allows you to upgrade firmware of the ID5101 (Video Indoor Station). The ways to upgrade the firmware is via Web UI. The Upgrade here goes through Web UI. There are 3 items:

Upgrade

Item	Description
Software Version	Shows current firmware version number
Select Target File	You may press **Browse** button to pop up a File dialog box to select the location of the new firmware that you wish to upgrade.
Upgrade	After select the new firmware, you can press **Upgrade** button to start the upgrading. You will see progress bar showing the upgrade status. **NOTE:** DO NOT turn off or disconnect the Ethernet cable during upgrade, you may cause serious damage to this Video Indoor Station.

Config

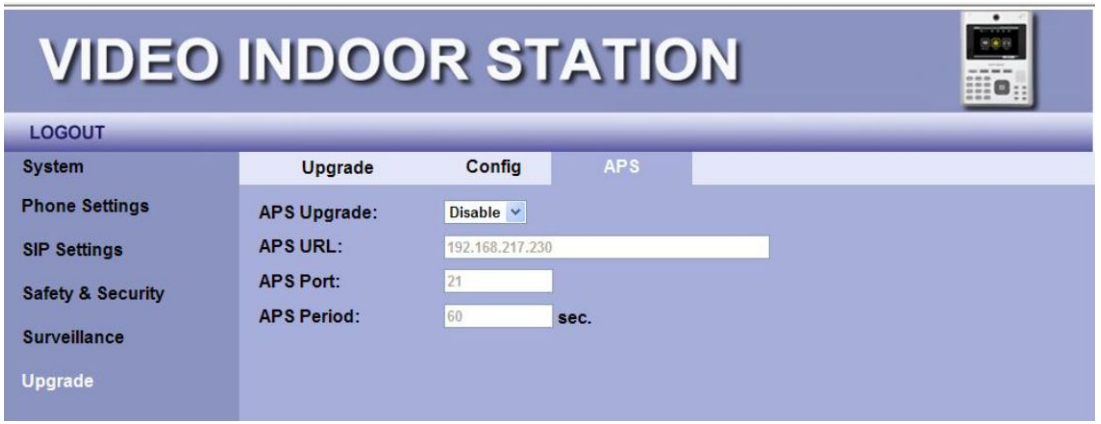
This feature allows you to import a configuration file of ID5101 Phone settings into this device. The configuration file is in XML format.



Item	Description
Import File	User may press **Browse** 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.
Upload	After selecting the configuration file, you can press **Upload** button to start the importing.
Export File	You can also use Export File to back up ID5101 settings on your phone.
Download	Press **Download** button to export, and you are prompted to click "**Open**" or "**Save**" for *NewConfiguration.xml*. If you click **Save**, the configuration file will be saved into a local directory.

APS

This APS page is used to set Enable/Disable APS server. While the APS server is enabled, system integrator or service provider would be allowed to upgrade your firmware of ID5101 remotely.

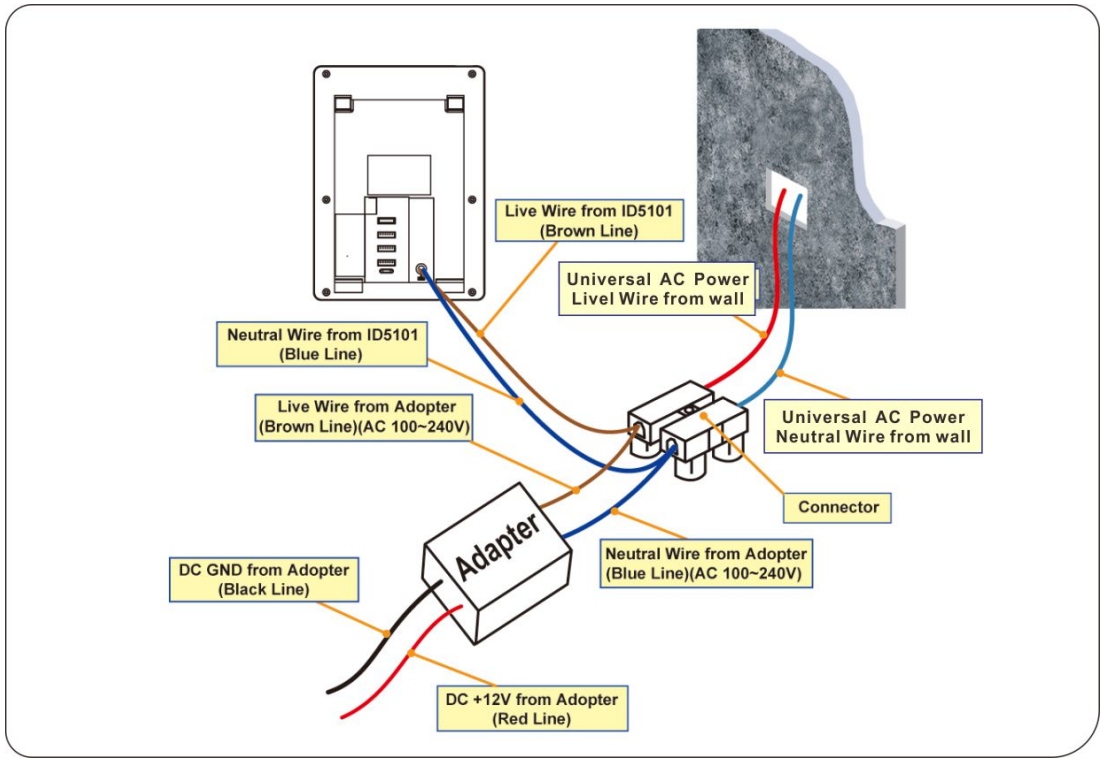


Item	Description
APS Upgrade	You may enable **Auto-Upgrade Manager** here. Since this upgrade may affect your normal operations, so make your own decisions to upgrade or not upgrade. Please be noted this setting is by your service company!
APS URL	IP address of APS server
APS Port	A port number that the phone uses to interact with APS server. Default is 21.
APS Period	A length of time that the phone sends the upgrade request to APS server periodically. Default is 60 sec.

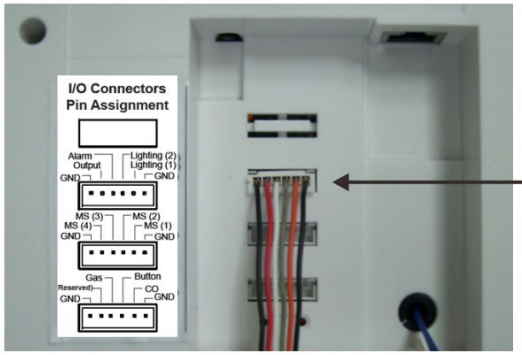
Appendix A : IO Circuit & Applications

The ID5101, Video Indoor Station, provides 8x Inputs ports and 4x Outputs ports for your home to set up Home Security and convenience; you may refer the following examples for each application.

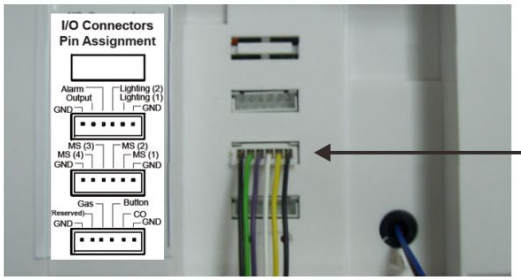
Please connect the adapter which comes with the package to the AC line as below and then connect your end devices according to your requirement.



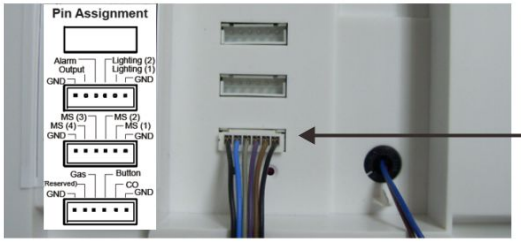
PIN Color and GPIO Connectors



Pins Color of the **1st** GPIO Connector



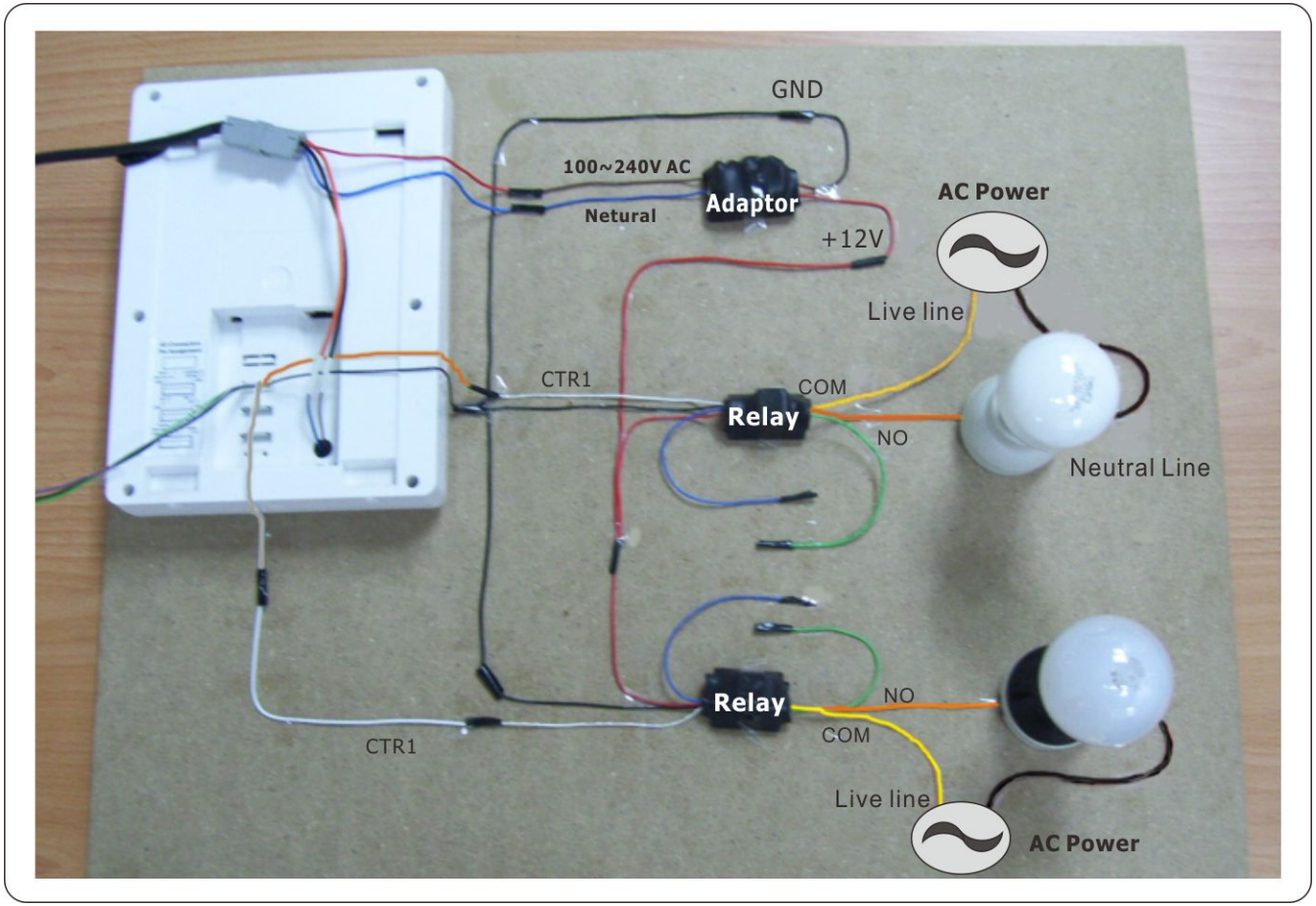
Pins Color of the **2nd** GPIO Connector



Pins Color of the **3rd** GPIO Connector

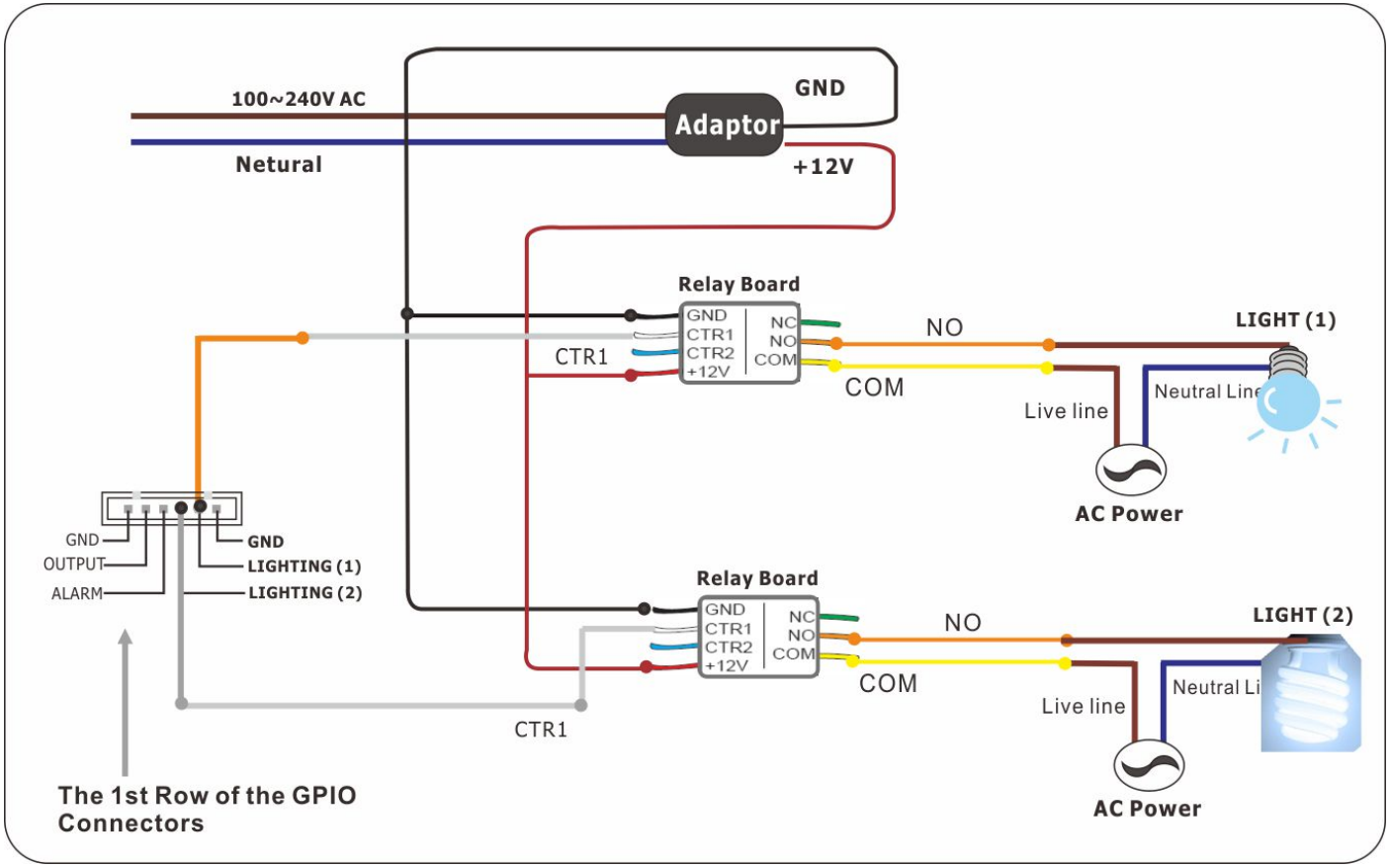
Before you begin to connect other devices to the ID5101, the I/O cables and their colors for GPIO connectors are illustrated as figure left.

LIGHTING CONTROL (Photo)



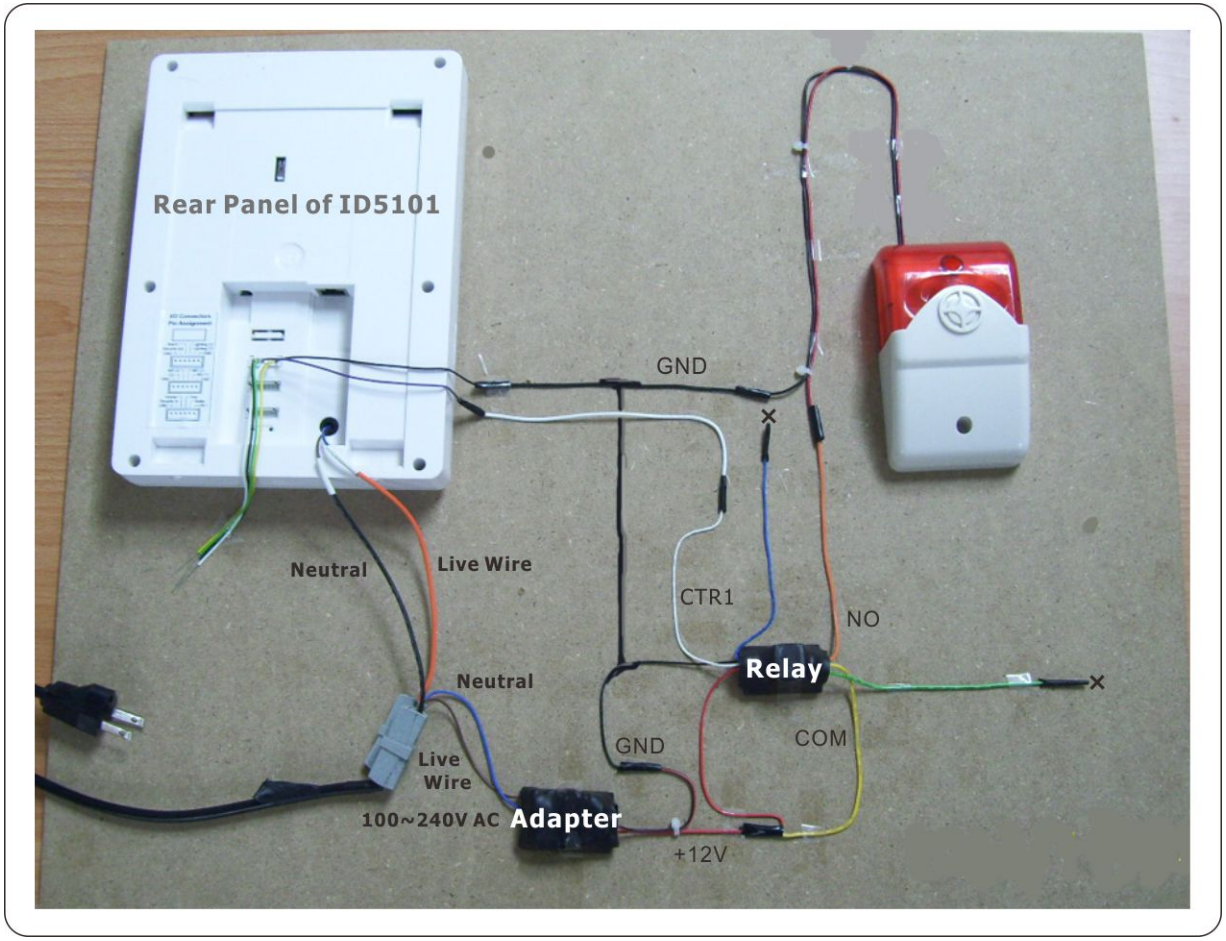
The illustration (photo) shows you how to use first GPIO connector and wire to connect Adapter and two Relay Boards for Lighting Control.

LIGHTING CONTROL (Diagram)



The illustration (diagram) shows you how to use first row of the GPIO connector and wire to connect Adapter and two Relay Boards for Lighting Control.

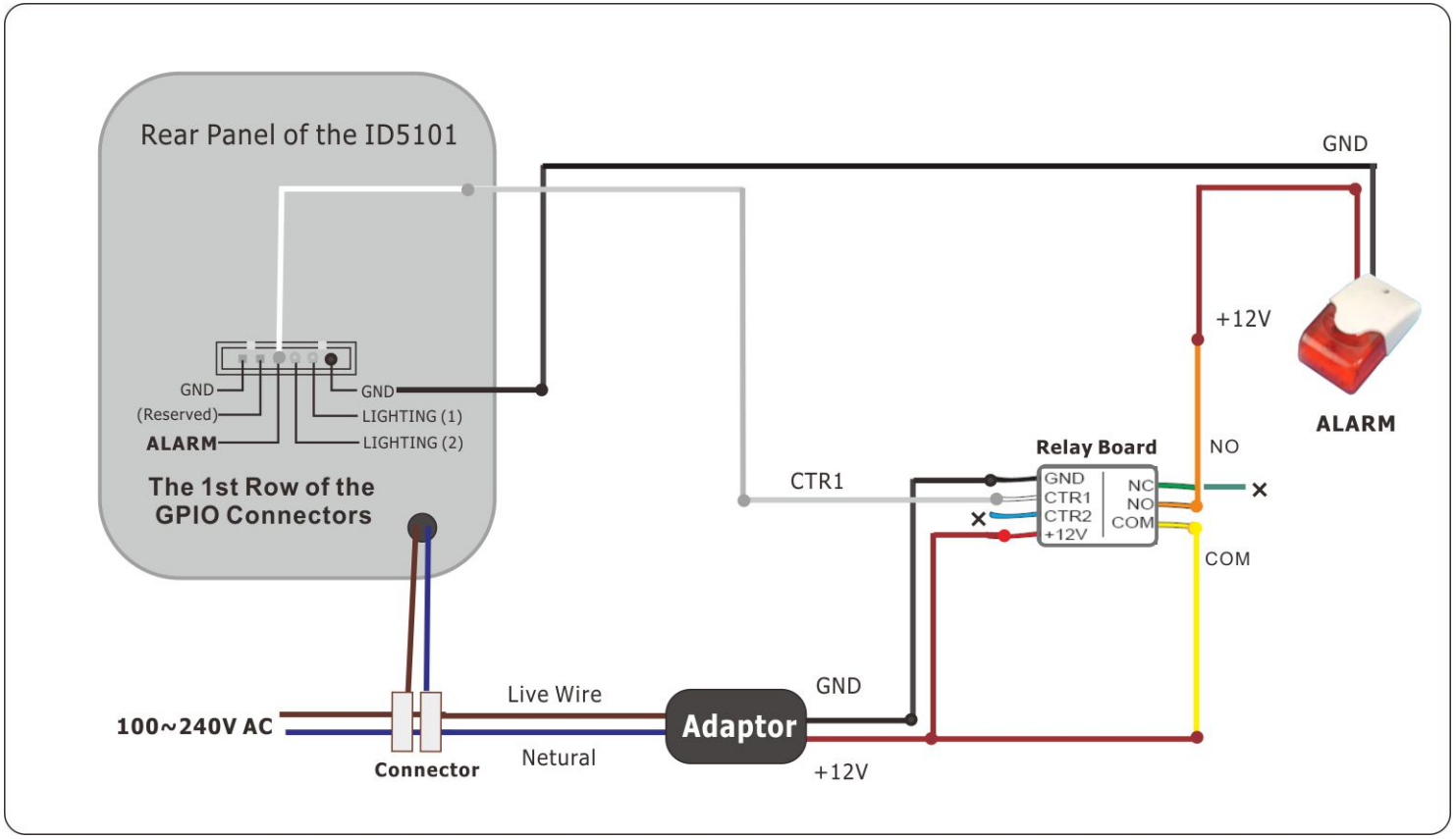
ALARM (Photo)



The illustration (photo) shows you how to use first GPIO connector and wire to connect AC Power, Adapter and Relay Board for ALARM system.

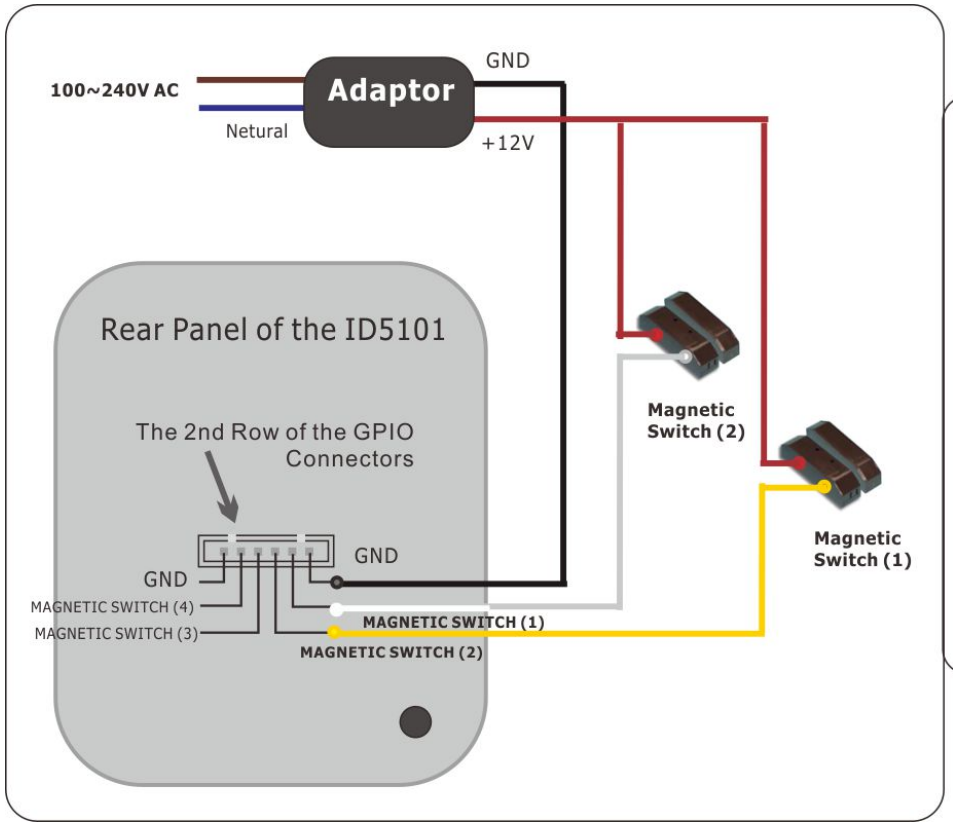
ALARM (Diagram)

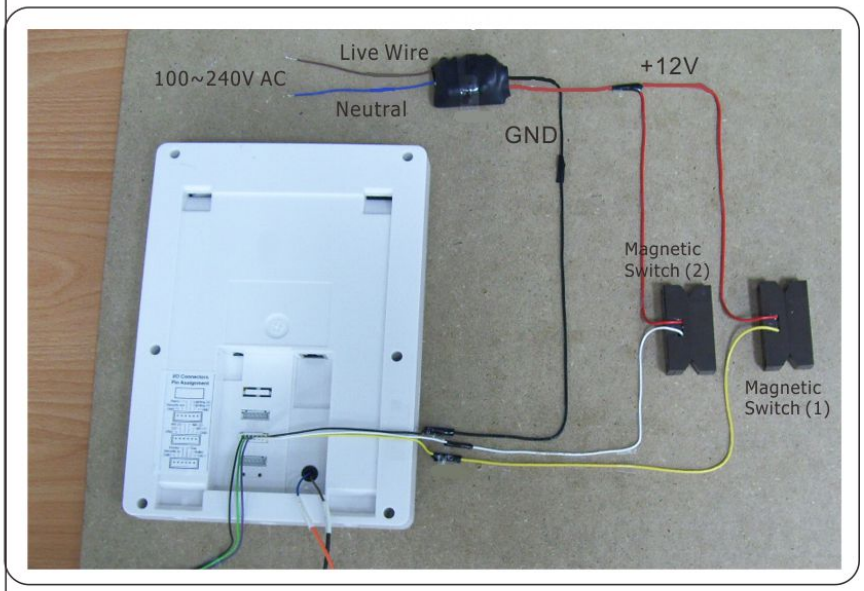
The illustration (diagram) shows you how to use first row of the GPIO connector and wire to connect AC power, Adapter and Relay Board for ALARM system.



MAGNETIC SWITCH (Diagram and Photo)

Both Magnetic Switch diagram and photo show you how to use second row of the GPIO connector to connect with Magnetic Switches, and you can connect up to four magnetic switches accordingly based on the diagram or photo.

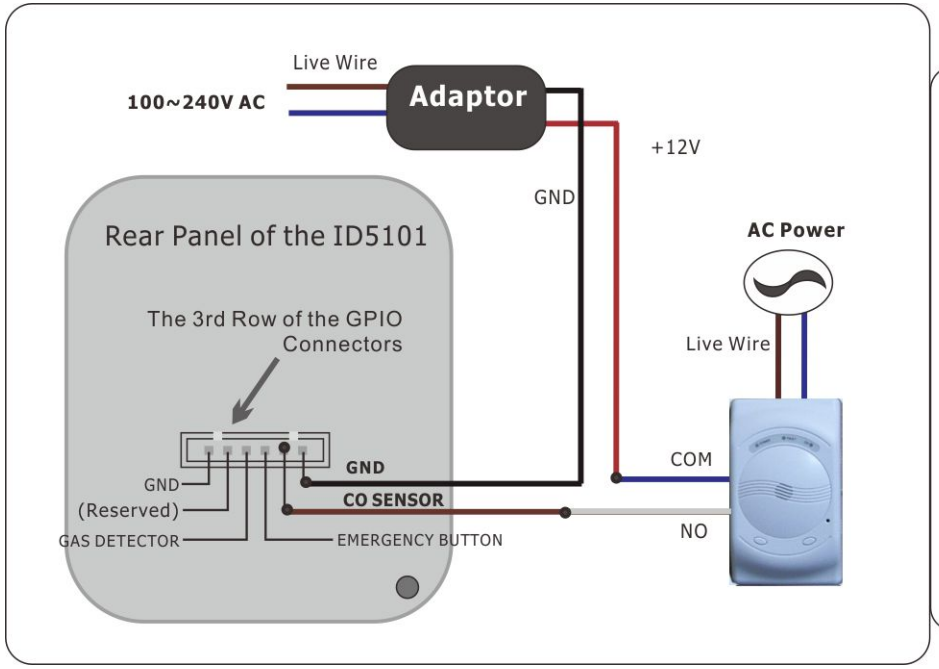


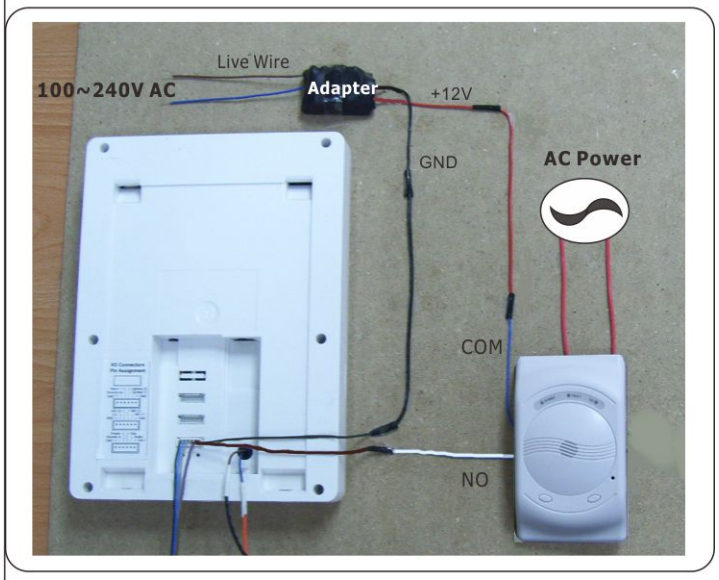


NOTE: The second GPIO connector is used to connect up to four Magnetic Switches.

CO SENSOR

Both CO Sensor diagram and photo show you how to use your 3rd GPIO connector to connect CO Sensor, and you can connect your CO Sensor based on the diagram or photo.

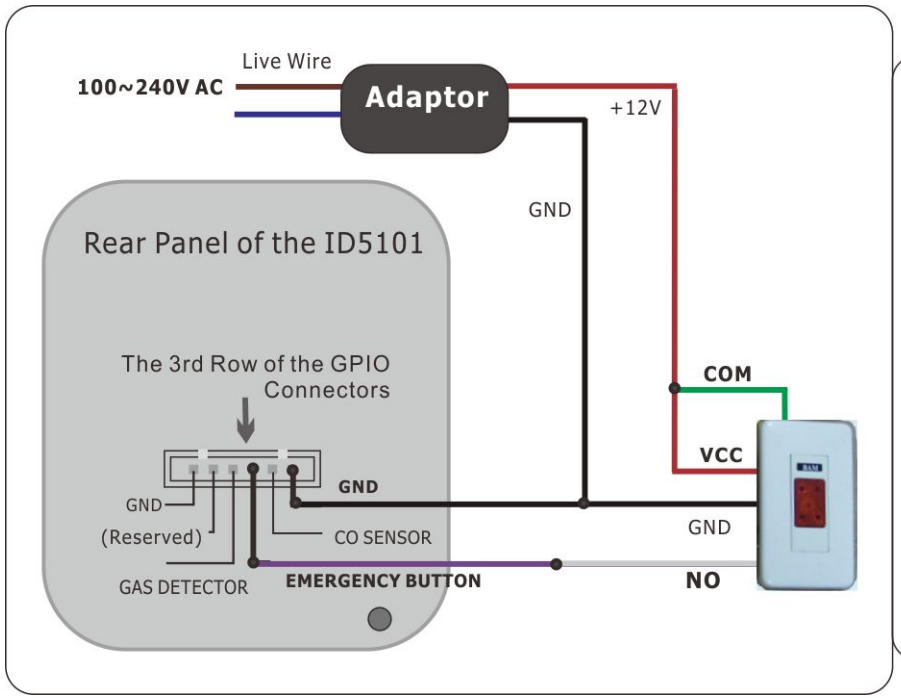


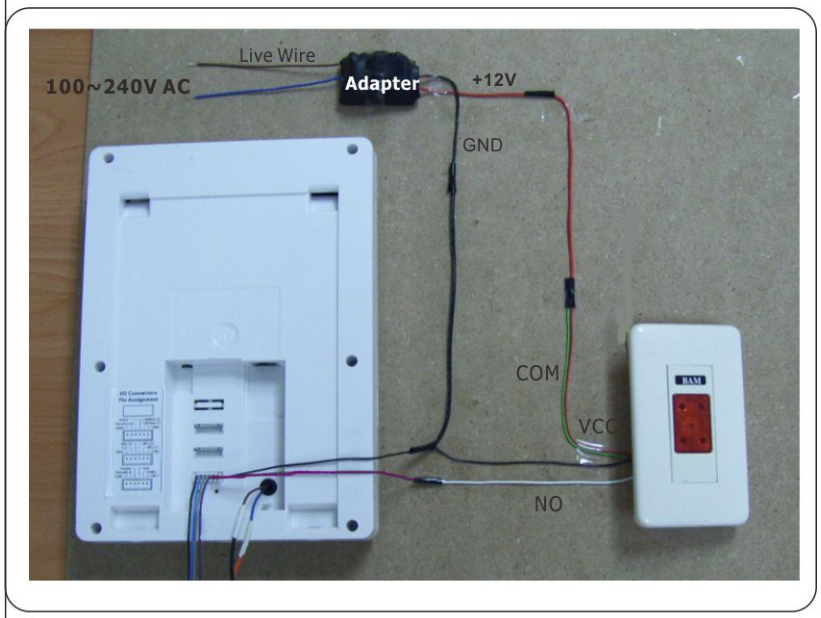


NOTE: The third GPIO connector is used to connect CO Sensor, Emergency Button, and Gas Detector.

EMERGENCY BUTTON

Both Emergency Button diagram and photo show you how to use 3rd GPIO connector to connect Emergency Button. The purple wire on the third-row GPIO connector is used to connect the NO wire.

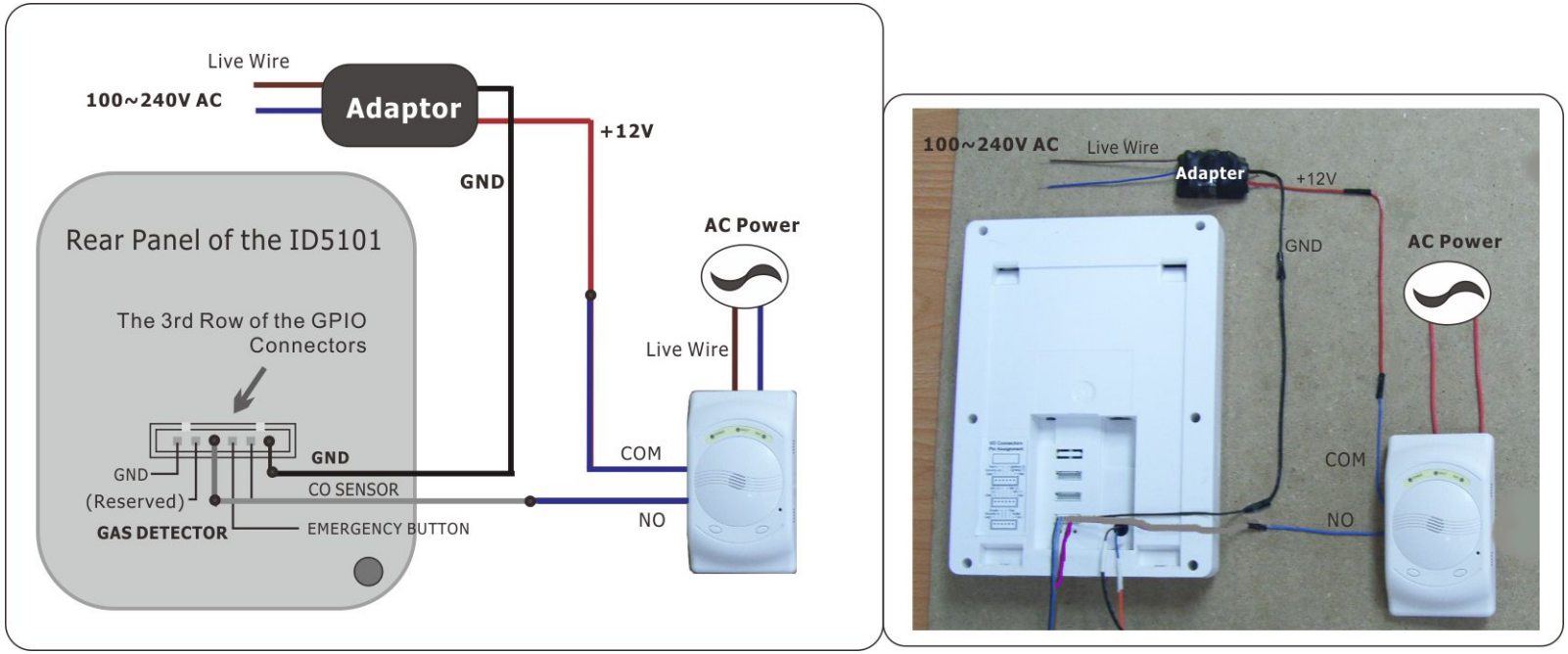




NOTE: In the above diagram, there is a LED in the Emergency Button. Green wire is COM, as VCC is for the LED in the Emergency Button.

GAS DETECTOR

Both Gas Detector diagram and photo show you how to use 3rd GPIO connector to connect Gas Detector. The gray wire on the third-row GPIO connector is used to connect the NO wire. Besides, Gas Detector needs to connect an external AC Power.



NOTE: The third GPIO connector is used to connect CO Sensor, Emergency Button, and Gas Detector.

Appendix B : Regulatory Information

FCC STATEMENT

This product has been tested and complies with the specifications 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 according to 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 is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's

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

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:

- EN301 489 -1 EN301 489 -3 General EMC requirements for Radio equipment
- EN60950 Safety
- EN300 330 -1 EN300 330 -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.

低功率電波輻射性電機管理辦法

第 12 條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第 14 條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

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