

OPERATION INSTRUCTION

IP 7 Inch Indoor monitor
User Manual

Statement

* If there is any doubt or disputable regarding information in this manual, you can call our company for clarification.

* There maybe some differences between the descriptions provided here and the actual devices, as our products are constantly developing and upgrading. We apologize if this manual does not contain all of the latest updates. Thanks.

LIMITATION OF LIABILITY

- ※ This users' manual is supplied 'as is', with no warranties, be it expressed or implied, including, but not limited to, the implied warranties of merchantability, suitability for any exact purpose, or non-infringement of any third party's rights.
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The supplier shall not be liable to any party or any person, except for replacement or reasonable maintenance of this product, for the cases, included but not limited to the following:

- ※ Any damage or loss, including but not limited to: direct/indirect, consequential, special, exemplary, arising out of or related to the product;
- ※ Inappropriate use or negligence of the user in operation of the product, resulting in personal injury or any damage;
- ※ Unauthorized disassembly, repair or modification of the product by the user;
- ※ Any problems or consequential inconvenience, loss or damage, caused by connecting this product to devices of the third parties;
- ※ Any claim or action for damages, brought by any photogenic subject, be it a person or organization, due to violation of privacy whereby the pictures taken by the device and/or saved data become public or are used for the purposes other than intended.

SAFETY INSTRUCTIONS

- ※ Read these instructions and keep them in a safe place for future reference.
- ※ Please refer all work related to the installation of this product to qualified service personnel or system technician.
- ※ Do not operate the appliance beyond its specified temperature, humidity or power source ratings.
- ※ Securely install the devices on vertical surfaces (solid walls/doors) not prone to vibration or impact.
- ※ Install the devices away from heat sources such as radiators, heat registers and stoves. Installation of the terminal near consumer electronics devices, e.g. stereo receiver/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed the above mentioned temperature range.
- ※ Handle the appliance with care. Do not strike or shake, as this may damage the device.

- ※ The doorbell/camera units should be fitted with an approved weather shield if the chosen position is in direct sunlight, or in contact with rain, snow or irrigation sprinkler systems.
- ※ Do not use strong or abrasive detergents when cleaning the appliance body. When the dirt is hard to remove, use a mild detergent and wipe gently.
- ※ Do not overload outlets and extension cords as this may result in a risk of fire or electric shock. Distributing, copying, disassembling, reverse compiling, reverse engineering, and also exporting in violation of export laws of the software provided with this product, is expressly prohibited.

CARING FOR THE ENVIRONMENT BY RECYCLING



When you see this symbol on a product, do not dispose of the product with residential or commercial waste.

Recycling your electrical equipment

Please do not dispose of this product with your residential or commercial waste. Some countries or regions, such as the European Union, have set up systems to collect and recycle electrical and electronic waste items. Contact your local authorities for information about practices established for your region.

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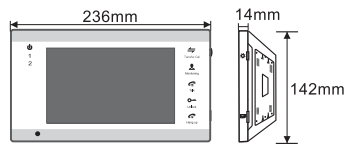
1. Description Of The Indoor Monitor

1.1 Fittings

For indoor monitor

- Indoor monitor (1pcs)
- Screw anchors (4pcs)
- Wall screws (4pcs)
- Bracket (1pcs)
- 4 Pin line (5pcs)
- A Network Conversion Line with 4 pin interface (1pcs)
- User Manual (1pcs)
- External Switching Power Adapter--DC 12V(1pcs)--Optional

1.2 Specifications

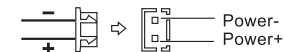


Display screen	7" TFT LCD screen
Definition	1024 (H) X600 (V)
Standard	PAL/NTSC
Calling mode	Two-way conversation
Calling time	120s
Standby current	Maximum 400MA
Work current	Maximum 800MA
Power supply	DC 12V
Work temperature	-10°C~+60°C
Installation way	Surface mounting
Extension memory	TF card (maximum 64GB) (≥Class 10)

1.3 Note On Wiring Connection

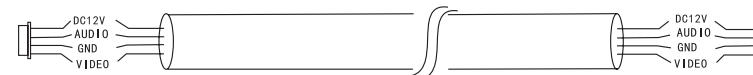
- The electric lock/source/camera is not include in the package, you can purchase an electric lock which is suitable for your need.
- In the standard delivery the system supports locks with Normally Open (N.O.) door unlocking method. It means that in the normal state the dry contact is opened so the lock is kept under constant closed state. If the unlocking push-button is pressed and the dry contact is changed to closed, then the lock is released.

! Please check that the socket of power supply(silk printing J8) is correct if you connect the external switching power supply, otherwise it will damage the device.



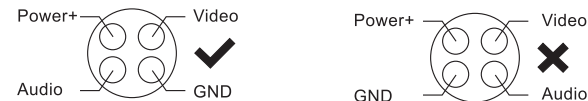
- Please note the silk printing marked on PCB in order to avoid incorrect connecting. The wiring connection requirement:

- 4C ordinary non-STP wiring cable;
- Effective distance from the outdoor camera to furthest indoor monitor:
 - Transmission ≤28m (4x0.2mm²)
 - Transmission ≤50m (4x0.3mm²)
 - Transmission ≤80m (4x0.5mm²)

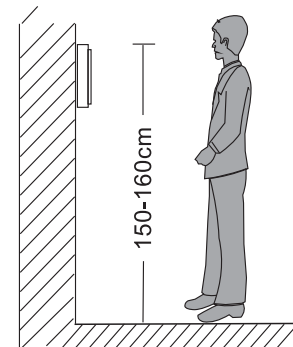


Non-STP wiring cable

- Wiring connection according to the following to avoid interference:



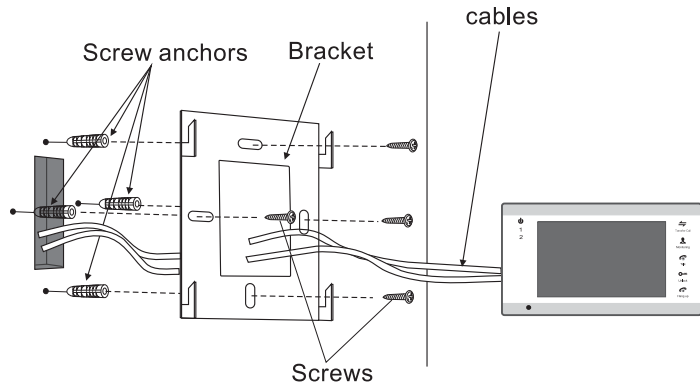
1.4 Installation Process



NOTE:

- * Avoid installation of the device near strong radiation e.g. TV set and PC etc.
- * Maintenance should be complied with a qualified technician.
- * Avoid hard shake , beating and collision, otherwise the internal exact components maybe be damaged .
- * Select the most suitable position where the monitor is located at user's eye level.
- * Switch off power supply before installing.
- * Keep more than 30cm away from AC power supply to avoid external interference.
- * Keep it away from the water and magnetic field.

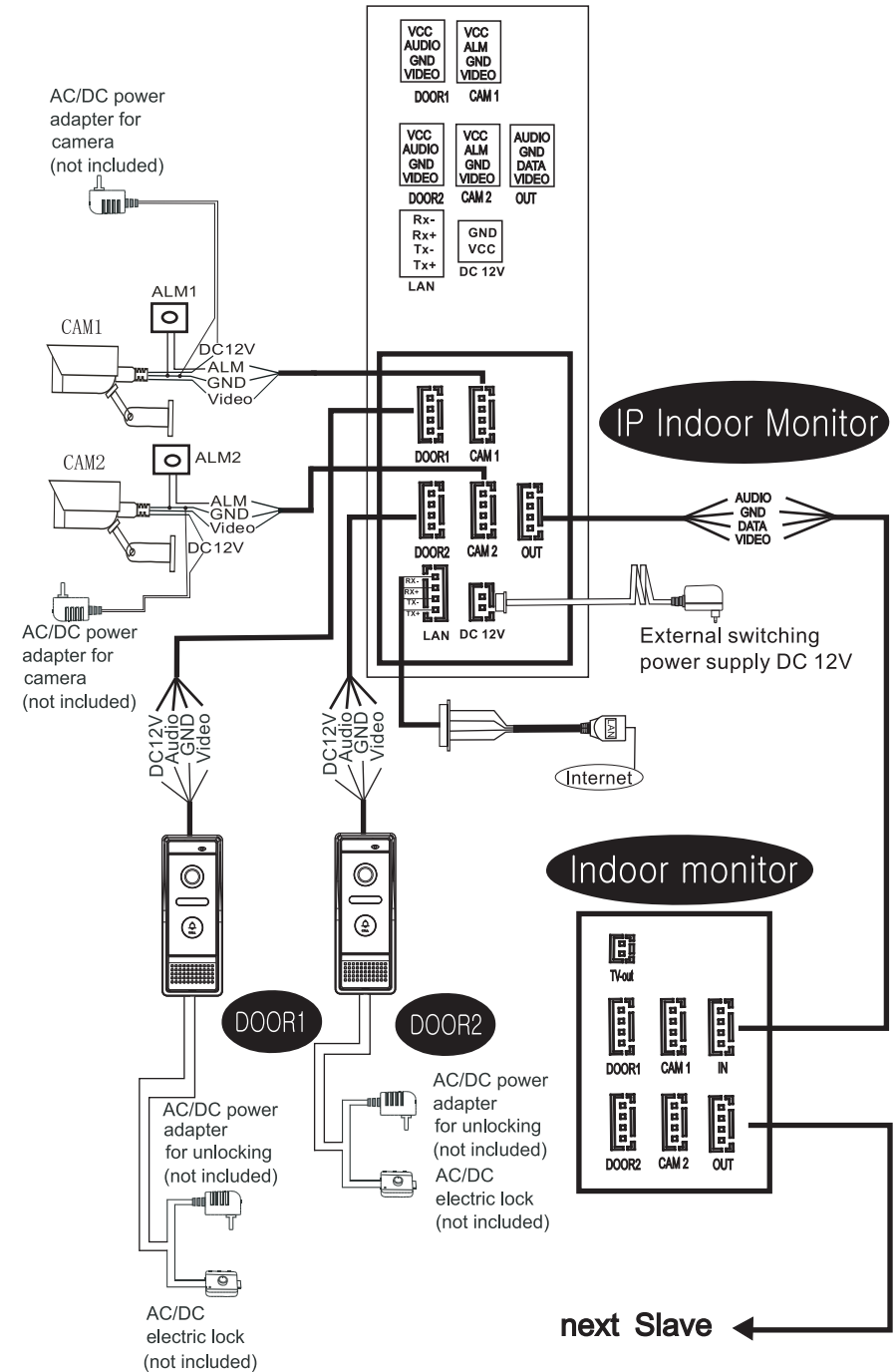
To install the indoor unit, please follow these steps as below:




1.5 Wiring Diagram

For 7" indoor monitor, user can connect up to 2 CVBS outdoor doorbells & 2 CVBS CCTV cameras, or 2 720P outdoor doorbells & 2 720P CCTV cameras, or 2 1080P outdoor doorbells & 2 1080P CCTV cameras, three extendable indoor monitor(one by one) to the corresponding interfaces by their own's requirement according to the following wiring diagram. The ethernet connector is a 4 pin connector, user needs to connect a network conversion with 4 pin interface to it(shown as below for example).


- Note:**
1. The indoor monitor uses an external switching power supply.
 2. The CCTV cameras must use an external power supply.
 3. 720P cameras, 1080P cameras and CVBS cameras can't support mixed input, user can modify video input mode through the menu option "Mode->Video mode->CVBS/AHD-720P/AHD-1080P".



1.6 Alarm Instructions

CAM1 and CAM2 of this production have each an alarm function. When the trigger terminal and GND is shorted, the alarm is activate, the indoor monitor will emit alarm sound, the alarm ring time is according to the menu option “Alarm->CAM1 ring time/CAM2 ring time. During this time, press “” to stop alarming and enter the standby mode.

Connection diagram:

 Be applicable to connect 2 normally closed (NC) or normally open (NO) alarm inputs. 2 camera channels of alarm input without limitations on input type (can either be the normally open type or the normally closed type).

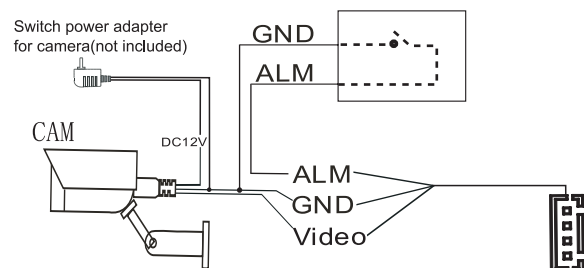
ALM terminal of the alarm detector is connected in parallel with the ALM terminal (The alarm detector shall be supplied by external power supply).

Ground terminal of the alarm detector is connected in parallel with the GND terminal of the camera.

For NO alarm inputs, when the GND and ALM are in the connection state, it will trigger the alarm.


















For NC alarm inputs, when the GND and ALM are in the disconnect state, it will trigger the alarm.

It applies to any alarm sensor.



1.7 Description On Indoor Monitor



NO.	Name	Descriptions
1		Power LED, the power indicator of the indoor monitor.
2	1	The door 1 state lights, to door 1 working when the LED is on.
3	2	The door 2 state lights, to door 2 working when the LED is on.
4	TFT display	View visitor's image displayed on the TFT screen.
5	Microphone	Transmit the voice to outdoor camera.
6		Intercom call or transfer calls to another indoor monitor.
7		Watch the door and camera images.
8		Activate conversation mode by pressing this button.
9		Release the door lock.
10		Hang up or return button on menus.
11	 Setting	<ol style="list-style-type: none"> The button is a composite key, users can press the button, scroll the button upward or downward. For more details, please refer to the section “Menu Operations”. In standby mode, press the button “” once to quickly access the menu. In main menu settings, scroll the button “” upwards or downwards to select sub-menu, then press “” again to enter sub-menu. In sub-menu settings, press “” to select menu options, scroll “” upwards or downwards to adjust values of each option, then press “” to confirm. When select option “Return” on the main menu, press “” to exit menu interface, and the indoor device will be into standby mode. When the menu option on section 5.3.6 “Parameters->Event->Record->Record mode” set up as “Snapshot”, in monitoring/talking mode, press “” to capture a frame of the current video stream as a still photo manually. When the menu option on section 5.3.6 “Parameters->Event->Record->Record mode” set up as “Record”, in monitoring/talking mode, press “” to start manual record, and press this button again to stop manual record. In talking mode, scroll “” upwards or downwards to adjust the communication volume of the indoor monitor.
12	Speaker	Sound from outdoor camera.
13	TF card slot	For the models with TF card, insert the TF card for video records and photographs, supports up to 64GB. And suggest that it's better to use a TF card more than class 10 onto the device.

1.8 Operation Introduction On Indoor Monitor

◆ VISITOR CALL

* Please be aware of Connection of 2 outdoor cameras is required.

Standby mode

The Visitor press the **call** button on outdoor camera 1



▼ A continuous ring tone is heard inside and outside

The visitor's image automatically displayed on the screen



Press the “” button on indoor monitor



▼ Stop ringing

Start conversation with outdoor camera

▼ The conversation duration is 120s at a time

Press the “” button on indoor monitor



release the door lock

Press the “” button on indoor monitor.



hang up

End

NOTICE:

If both call button on two outdoor camera are pressed at approximate to the same time, the preference will be given to the outdoor camera which call button was pressed first, unless the call button is pressed again after the indoor monitor go into standby mode, please be aware of that there is no indication on second outdoor camera .

NOTICE:

The indoor unit will automatically go into standby mode if you are not at home or have not reached the indoor unit in 60s.

i Both the visitor's voice and image will not be switched off within 20s of time span when the “” button is pressed, this individualized function allow you to make sure whether the visitor already come in.

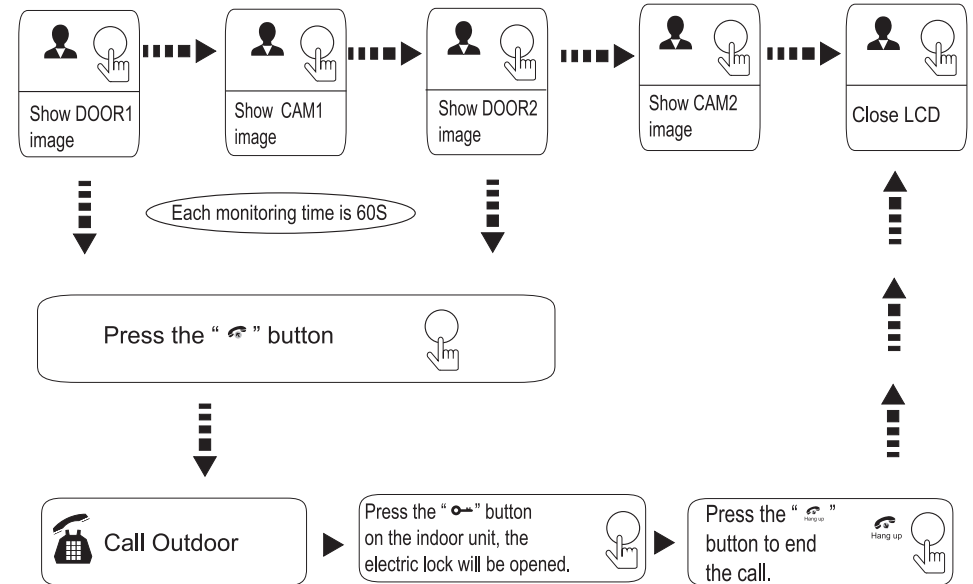
i When the doorbell record for the video mode, from the start of a call, the whole process will be recording. If the user press the icon “”, the recording will be stopped manually. When the doorbell record for the snapshot mode, if a visitor press the call button on the outdoor camera, the first picture will be captured in the built-in storage of the indoor monitor, user can press the button “” to capture an image.

i In monitoring mode, user can hear the sound transmitted from the outdoor doorbell, user can press the button “” to conversation and press the button “” to unlock.

Monitoring

Option in the settings in the menu: DOOR1, CAM1, DOOR2, CAM2 operating mode (open or closed)

Standby Mode



NOTICE:

If you are using only one outdoor camera in monitoring mode, you can also end the monitoring mode by pressing the monitoring button again (Must be Close CAM1; DOOR2; CAM2 in the menu option) .

i If you use two indoor units, you can also simultaneously in other indoor unit starts monitoring mode, the same images are displayed on the screen of the different indoor unit.

i If a conversation with outdoor unit is underway in monitoring mode, during this time a visitor press the call button on either of outdoor unit, the monitoring mode will be switched off, the just visitor's image will appear on its screen and continuous ringing will be heard. If you are using the indoor unit with hands-free, you can press the talking button to reactivate conversation with the visitor.

Call Transfer To Other Extension

Internal communication function requires at least two indoor and one outdoor units to be connected.

Outdoor camera call indoor monitor and conversation is underway

NOTICE:

When you are transferring a call to other extension, the original conversation indoor unit will return to standby mode, and the indoor unit which the call is being transferred will also sound a continuous ring tone and the video image will appear on its screen.

Press the "Transfer Call" button to activate the function of call transfer to other extension.

A continuous ring tone is heard

Press the talk button on any of indoor units

Talking with visitor

The Electric lock can be opened

End the call and return to standby mode.

Internal Communication Among Indoor monitors

At least 2 indoor units is required.

Standby Mode

Press the "Transfer Call" button

A continuous ring tone is heard

Press the talk button on any of indoor units

Start conversation among indoor units.

Press Hang up button

End

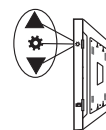
NOTICE:

In **internal communication** mode, if a visitor press the call button on either of outdoor unit, the **internal communication** mode will be switched off. The just visitor's image will appear on its screen and continuous ringing will be heard, you can press the **talk** button to reactivate conversation with the visitor.

2. Menu Operations On Indoor Monitor

Attention before using:

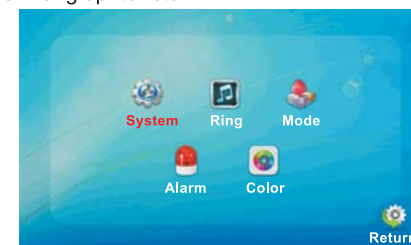
1. This indoor monitor includes OSD menu on it's own device, users could set up some parameters on the indoor monitor.
2. User can connect the device through web browser on PC, please refer to section "3. Web Browser Operation".
3. Also user can connect the indoor monitor through mobile phone/tablet with the "uCareHome" app, please refer to "uCareHome app for IP Indoor Monitor User Manual".
4. The motion detection function only supports for one channel, it means that when activating motion detection function of the Door 1, the motion detection function of the other channel can't be activated at the same time. User can set up the motion detection parameters through IE browser or the "uCareHome" app.
5. The TF card can be formatted remotely via the "uCareHome" app or through IE browser, the file system of the TF card must be FAT32.
6. The TF card will be used to store video record or snapshot when calling on the outdoor bell, please refer to the configuration on section "5.3.6 Event-Record".
7. When all the button LEDs is flashing, the indoor monitor is ready in AP mode.
8. When unlocking, the app unlock time is set separately from the monitor's own unlock time. If unlock from the app "uCareHome", the unlock time of Door1 and Door2 are the same, will be consistent with the menu option value "Device Information->Unlock Time". If unlocking on the monitor, the unlock time of Door1 and Door2 can be different, will be consistent with the menu option value "Mode->Door1 unlock time/Door2 unlock time".
9. If users don't do any operate or enter any interface about the indoor monitor, the indoor monitor will be into standby mode after 1 minute automatically.
10. When the menu option "Key backlight" is set to "ON", when user presses any button or some visitor calls on the outdoor doorbell, all back-light LEDs of the button will be on. If the indoor monitor is in standby mode, if user doesn't do any operate on the device in 10 seconds, the back-light of each button will be off.
11. During editing parameters on the monitor, the red characters indicate that the option has been selected. When the red characters flash, it indicates that the option is in edit state.



The button "⚙️" is a three-in-one key, but also composite keys:

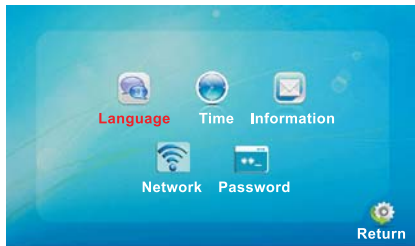
In standby mode, press the button "⚙️" once to enter the main menu settings. In main menu settings, scroll the button "⚙️" upward or downward to select sub-menu, then press "⚙️" again to enter sub-menu. In sub-menu settings, press "⚙️" to select menu options, scroll "⚙️" upward or downward to adjust values of each option, then press "⚙️" to confirm. When select option "Return" on main menu, press the button "⚙️" to exit menu interface, or press "Hang up" button, the indoor monitor will be into standby mode.

In standby mode, press the button "⚙️" to access the main menu interface, shows the main interface as shown below. On menus, scroll "⚙️" upward or downward to move the cursor to the option "Return", then press "⚙️" to exit; or press "Hang up" to return.



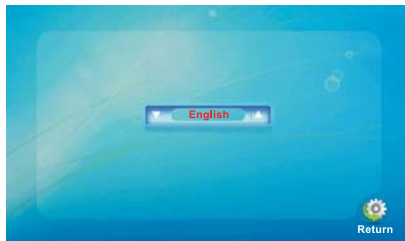
2.1 Set System Parameters

Scroll the button “⚙️” upward or downward to move the cursor to the option “System”, then press “⚙️” to enter the “System” menu. System setup includes: “Language”, “Time”, “Information”, “Network” and “Password”.

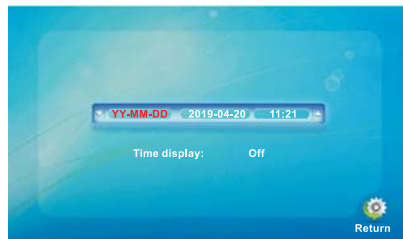


2.1.1 System – Language

On system menu, move the cursor to “Language” and press “⚙️” to enter the “Language” menu. Use this field to change the language of the monitor menu text and the on-screen display. Press “⚙️” to select menu options, and then scroll “⚙️” upward or downward to adjust values, then press “⚙️” again to confirm.



2.1.2 System – Time

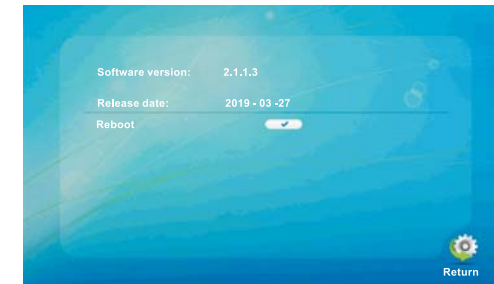


On system menu, move the cursor to “Time” and press “⚙️”. Use this field to switch the date format, include “YY-MM-DD”, “MM-DD-YY” and “DD-MM-YY”, to adjust system date and time. First scroll “⚙️” upward or downward to move the cursor, and press “⚙️” to select menu options, then scroll “⚙️” upward or downward to adjust values, then press “⚙️” again to confirm.

[Time display]: Options include “1min”, “3min”, “5min”, “10min” and “Off”. For example, “1min” means that the system time will be displayed on the screen for 1 minute when the device is in standby mode. “Off” means that there is no time displayed on the screen when the monitor is in standby mode.

2.1.3 System – Information

On system menu, move the cursor to “Information” and press “⚙️” to enter the “Information” menu. The information includes software version and release date.

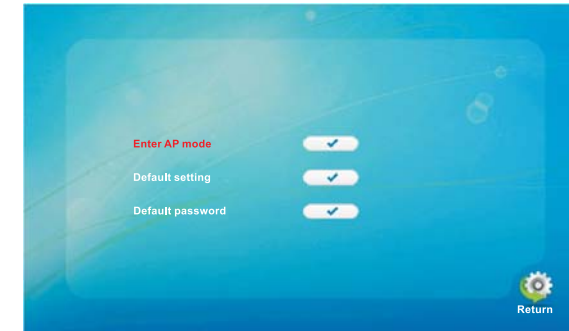


[Reboot]: Move the cursor to “Reboot”, and press “⚙️”. It will pop-up a tip on the window, choose “Yes” to restart the device, choose “NO” to cancel.

[Return]: Exit the current menu.

2.1.4 System – Network

On system menu, move the cursor to “Network” and press “⚙️” to enter the “Network” menu. User can set up “Enter AP mode”, “Default setting” and “Default password”.



[Enter AP mode]: Using this field to make the device into AP mode manually. Choose “Yes” the monitor will auto-reboot, and all the buttons LEDs on the front panel will be flashing after it restarts, then the AP mode is ready. Using the menu “Exit AP mode” to exit AP mode manually.

[Default Setting]: To restore all the parameters to the default values.

[Default password]: To restore the login/unlock password of the monitor access by web browser or the uCareHome app, default password is “888888”.

[Return]: Exit the current menu.

2.1.5 System – Password

On system menu, move the cursor to “Password” and press “⚙” to enter the “Password” menu. User can set up the administrator’s password. The password set for entering the indoor monitor by web browser or the uCareHome app, default is “888888”.

[Return]: Exit the current menu.



2.2 Set the tone parameters

On main menu, move the cursor to “Ring” and press “⚙” to enter the “Ring” menu. Ring setup includes: “Ring select” and “Ring volume”.



2.2.1 Ring – Ring select

On ring menu, move the cursor to “Ring select” and press “⚙” to enter the “Ring select” menu to set up the doorbell tone of the outdoor camera.

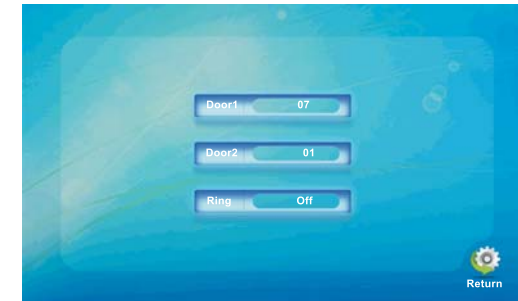
[Door1]: To set up the doorbell tone of the outdoor camera 1, a total of 12.

[Door2]: To set up the doorbell tone of the outdoor camera 2, a total of 12.

[Ring]: This item can be set when calling on the outdoor bell, the visitor can hear the ringing tone at the outdoor bell or not. “On” indicates that visitor will hear the ringing tone on the doorbell after calling. “Off” indicates that the

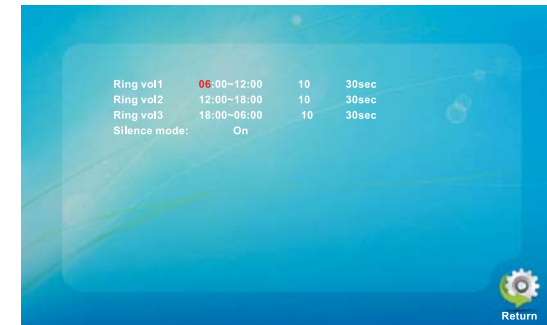
the outdoor bell will be muted after calling.

[Return]: Exit the current menu.



2.2.2 Ring – Ring volume

On ring menu, move the cursor to “Ring vol1”/”Ring vol2”/ “Ring vol3” and press “⚙” to enter the “Ring volume” menu to set up the ring volume. Users can set up different ring volume during three different time period, the vibrate and ring time can be adjusted from 10s to 45s when calling.



[Ring Vol1]: the volume level of Ring Vol1: 00-10.

[Ring Vol2]: the volume level of Ring Vol2: 00-10.

[Ring Vol3]: the volume level of Ring Vol3: 00-10.

First move the cursor to option value, press “⚙” to enter edit mode, then scroll “⬆” upward or downward to adjust values, and press “⚙” to confirm.

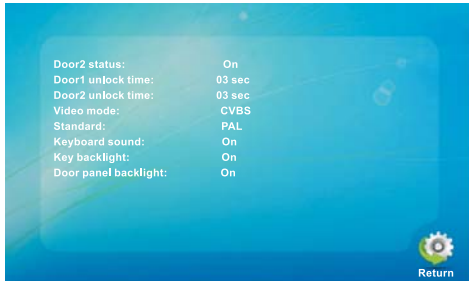
[Silence mode]: Silence mode is Do Not Disturb mode. When Do Not Disturb mode is enabled, during the period time of the silence mode the indoor monitor will be muted when outdoor doorbell calls or alert occurs.

Note: In silence mode, the indoor monitor will be muted when some visitor calls on the outdoor doorbell or alert occurs. User can enter into the menu “Silence mode” to disable it manually.

[Return]: Exit the current menu.

2.3 Set the mode of the indoor monitor

On main menu, Move the cursor to “**mode**” and press “**⚙**” to enter the “Mode” menu.



[Door2 status]: Enable or disable the preview of Door2.

[Door1 unlock Time]: From 02 seconds to 10 seconds.

[Door2 unlock time]: From 02 seconds to 10 seconds.

[Video mode]: From this field, select the video input mode that is consistent with cameras input, i.e AHD-1080P, or AHD-720P or CVBS. “AHD-1080P” means that user can connect up to four 1080P cameras to the indoor monitor. “AHD-720P” means that user can connect up to two 720P outdoor doorbells and two 720P CCTV cameras to the indoor monitor. “CVBS” means that user can connect up to 4 CVBS cameras(2 outdoor bells and 2 cameras) to the monitor.

[Standard]: From this field, select the system output type that is consistent with camera input, i.e. PAL or NTSC.

[keyboard sound]: Option “On” the mean is turn on the prompt tone when operation each step. Option “Off” the mean is turn off the prompt tone when operation each step.

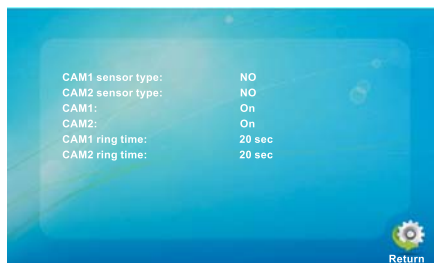
[Key backlight]: Option “On” indicates that all key lights on the front panel will be on. Option “Off” indicates that all key lights on the front panel will be off.

[Door panel backlight]: This option is for outdoor bell with backlight control. Option “On” indicates that backlight LEDs of the outdoor bell will be on. “Off” indicates that backlight LEDs of the outdoor bell will be off.

[Return]: Exit the current menu.

2.4 Alarm

On main menu, move the cursor to “**Alarm**” and press “**⚙**” to enter the “Alarm” menu to set up the alarm type of camera 1 or camera 2.



[CAM 1 Sensor type or CAM 2 Sensor type]: Each camera channel corresponds to an I/O status (see the following status explanations), which means that when an alarm is triggered, it will activate the indoor monitor to issue an alert, the duration of the alert will be according to “CAM1 ring time” or “CAM2 ring time”.

I/O status types:

NO: “Normally open”, it means that in its normal state, the sensor is kept under constant low voltage. If the output voltage changes from low to high, then the alarm will be triggered.

NC: “Normally closed”, the normal state of the sensor is under constant high voltage. If the output voltage changes from high to low, then the alarm will be triggered.

Off: Set the sensor type to “Off”, it means external sensor alarms are not in use.

[CAM1] : Enable or disable the preview of camera 1.

[CAM2]: Enable or disable the preview of camera 2.

[CAM 1 ring time]: The alarm ring time of camera 1, if camera 1 has been triggered by activity detected by the sensor, values can be set from 0~30 seconds.

[CAM 2 ring time]: The alarm ring time of camera 2, if camera 2 has been triggered by activity detected by the sensor, values can be set from 0~30 seconds.

[Return]: Exit the current menu.

2.5 Set the color parameters

On main menu, move the cursor to “**Color**” and press “**⚙**” to enter the “color” menu.



On the color menu the video color of Door1/Door2/CAM1/CAM2 attributes can be adjusted for the best image quality. Choose on the option “Door1” or “Door2” or “CAM1” or “CAM2” to enter the corresponding menu to adjust values of brightness, contrast and saturation depending on the actual conditions. Scroll the button “**⚙**” upward or downward to adjust values.

[Brightness]: values can be set up from 0 to 50.

[Contrast]: values can be set up from 0 to 50.

[Saturation]: values can be set up from 0 to 50.

[Return]: Exit the current menu.



2.6 Device Connect--Through wired network or wireless network

A. User can connect the indoor monitor through network cable, operation steps:

1. Connect a network conversion with 4 pin interface to JA1 on the indoor monitor, and connect the keystone jack of network to the end of the 4 pin interface.
2. Connect the outdoor camera(s) and cctv camera(s) to the 4 pin terminal on indoor monitor.
3. Power on the indoor monitor.
4. Wait for a while until hearing a beep sound, then the indoor monitor starts completely.

Network connection diagram through wired network of Figure 1 as an example.

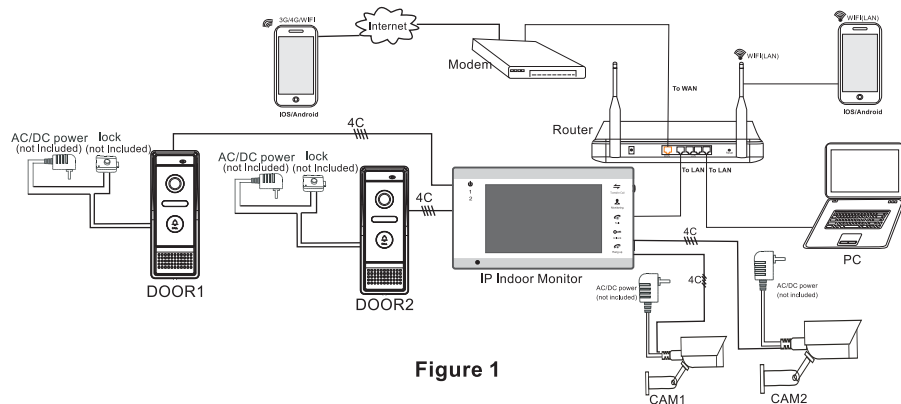


Figure 1

B. The indoor device with WIFI function can also work in WIFI wireless network.

1. If user connects a network cable to the indoor device, the parameters for WIFI can be set up via IE browser, please see section [5.3.4 Network--WIFI](#) for more information, network connection diagram please refer to [Figure 1](#) on the above.
2. If user doesn't want to connect a wired cable to the indoor monitor, and user needs to prepare a wireless router and a smart-phone or a pad with IOS or Android system. The parameters for WIFI can be set up via a smart-phone or a pad with IOS or Android system, please see section [2.7 AP mode](#) for more information.

Network connection diagram via wireless network as Figure 2 as an example.

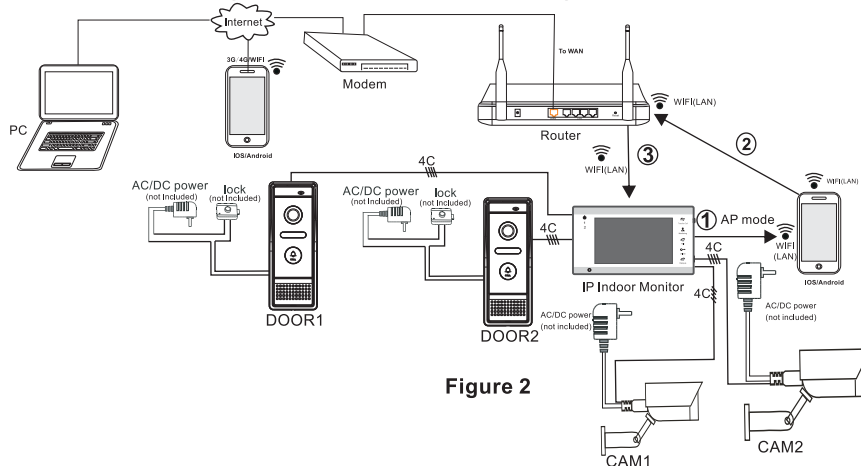


Figure 2

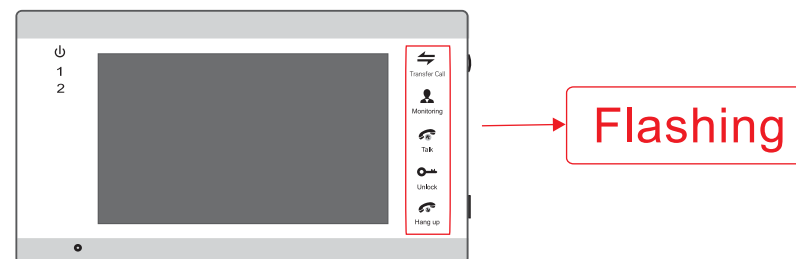
2.7 AP Mode

Into AP mode automatically

For factory default parameters, the monitor will into AP mode automatically after power on. After power on the monitor, if the monitor detects no network, waiting for about 40 seconds all the button LEDs will be blinking. It indicates the monitor has start in AP mode. Please setup your WIFI with the "uCareHome" app.

Into AP mode by manual

Enter the menu "System->Network->Enter AP mode", choose "Enter AP mode", it will automatically reboot and wait for all button LEDs flashing then AP mode is ready.



Note:

1. If the device has went into AP mode, but the wireless function of the device hasn't been activation via "uCareHome" on the phone or user doesn't do any operate about the device, after 10 minutes the device will automatically exit AP mode and returns to the previous connection mode.
2. If the monitor is in AP mode, user can through the menu "System->Network->Exit AP mode" to choose it manually, the monitor will auto reboot and it will exit AP mode.