CONTENTS

INDOOR MONITOR SPECIFICATION

Note: The following are diagrams of all of the available indoor unit models, not all models have the same layout or features, please take actual model as quasi.

OPERATION INSTRUCTION

FHD Touch Screen Video Intercom System

Indoor Monitor
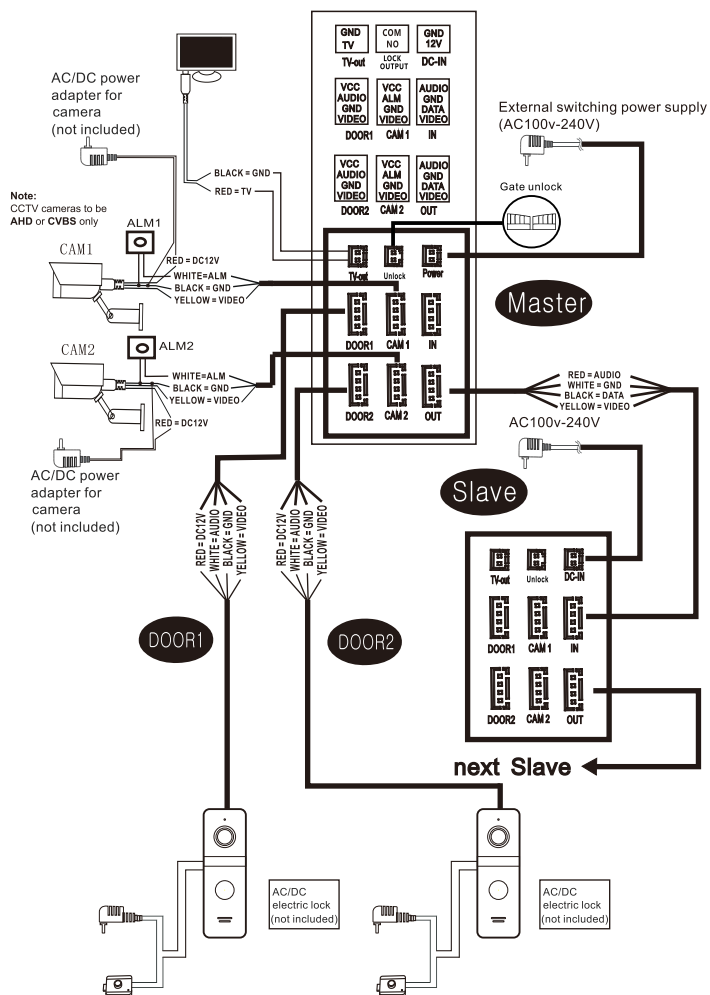
User Manual

Statement

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

∗ There maybe some difference between the description 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

MC-0337-V1.0
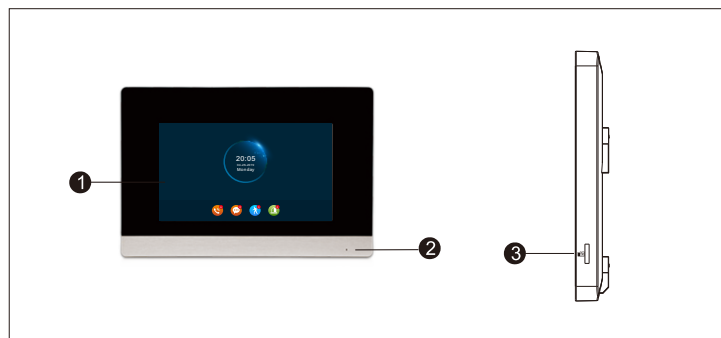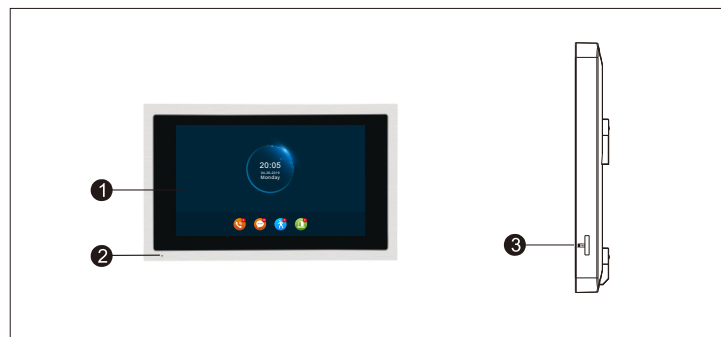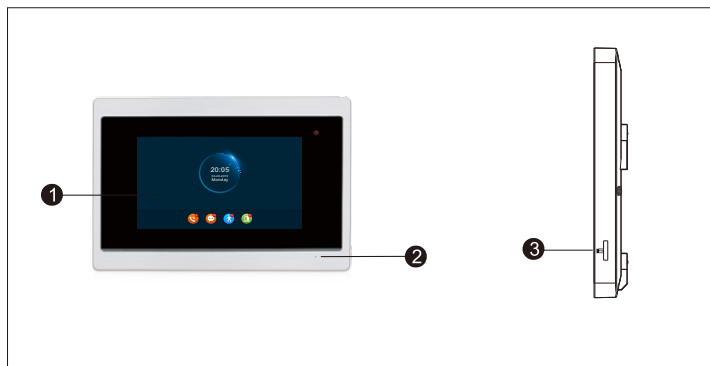
NO.	Name	Descriptions
1	TFT display	View visitor's image displayed on the TFT screen
2	Microphone	Transmit the voice to outdoor camera
3	SD card slot	For the models with SD card, Insert the SD card for recording

AC/DC power adapter for camera (not included)

Note:
CCTV cameras to be **AHD** or **CVBS** only

CAM1
CAM2

ALM1
ALM2

RED = DC12V
WHITE=ALM
BLACK = GND
YELLOW = VIDEO

BLACK = GND
RED = TV

External switching power supply (AC100v-240V)

Gate unlock

GND TV | COM NO | GND 12V
TV-out | LOCK OUTPUT | DC-IN
VCC AUDIO GND VIDEO | VCC ALM GND VIDEO | AUDIO GND DATA VIDEO
DOOR1 | CAM 1 | IN
VCC AUDIO GND VIDEO | VCC ALM GND VIDEO | AUDIO GND DATA VIDEO
DOOR2 | CAM 2 | OUT

TV-out | Unlock | Power
DOOR1 | CAM 1 | IN
DOOR2 | CAM 2 | OUT

Master

Slave

RED = AUDIO
WHITE = GND
BLACK = DATA
YELLOW = VIDEO

AC100v-240V

AC/DC power adapter for camera (not included)

RED = DC12V
WHITE = AUDIO
BLACK = GND
YELLOW = VIDEO

WHITE=ALM
BLACK = GND
YELLOW = VIDEO

RED = DC12V

DOOR1
DOOR2

TV-out | Unlock | DC-IN
DOOR1 | CAM 1 | IN
DOOR2 | CAM 2 | OUT

next Slave ←

AC/DC electric lock (not included)
AC/DC electric lock (not included)

5

DESCRIPTION ON SYMBOL

Press the call button of the outdoor unit. When calling the indoor monitor, a line of function buttons will appear below the indoor monitor, as follows:

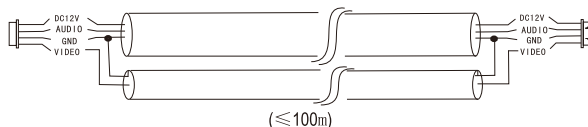| Capture button		capture the images displayed by the outdoor station and camera.
Record button		Start or stop recording the images displayed by the outdoor station and camera.
Unlock button		When the outdoor station calls, motion detection, or monitoring, click unlock button to open the lock of the outdoor station.
Picture setting button		adjust the call volume, brightness, contrast, color saturation.
Transfer button		During the conversation between the outdoor station and the indoor monitor, click this button and the extension option will appear. You can select and click the serial number of a device to transfer the call.
Answer button		1.Answer the call of the visitor and talk. 2. Press the answer button during monitoring to talk to the outdoor station.
Hang up button		When calling, alarming, monitoring, motion detection, click this button to hang up and return to the standby interface.

6

INSTALLATION NOTE

ⓘ The electric lock/alarm/camera is not included in the package, you can purchase an electric lock which is suitable for actual requirement.

ⓘ 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.

⚠ Indoor machine power with a built-in power or an external power optional. Please refer to actual control using. If the indoor machine with a built-in power source, applicable to wide voltage range (AC100V-240V). Please first pull out the AC power plug before installation of device(shown as below).

ⓘ Use and selection of wire, please refer to the following.(The actual effect and the quality of wire rod has the very big relations)

1. 4C ordinary unshielded and shielded wire connection mode：

Distance ≤28m(4*0.2mm^2)； Distance ≤50m（4*0.3mm^2）； Distance≤80m（4*0.5mm^2）

```
DC12V          DC12V
AUDIO          AUDIO
GND            GND
VIDEO          VIDEO
```

2. 3C ordinary unshielded + video wire (75-3) connection mode:

```
DC12V          DC12V
AUDIO          AUDIO
GND            GND
VIDEO          VIDEO
```

(≤100m)

3. CAT5 network cable connection mode: (Not recommeded)

```
DC12V          DC12V
AUDIO          AUDIO
GND            GND
VIDEO          VIDEO
```

Unshielded network cable(≤50m)

WIRING DIAGRAW
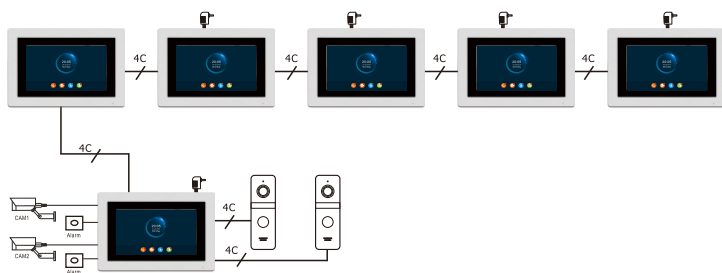
OPERATION INTRODUCTION

◆ VISITOR CALL

Standby mode

The visitor press the call button on outdoor camera 1		The visitor press the call button on outdoor camera 2

▼ Outdoor station and Indoor monitor can hear the ring tone, default ring tone time 30s.

ⓘ **NOTICE:**

The visitor's image automatically displayed on the screen

If press call button from two outdoor units at the same time, the first outdoor unit will ring, another one no response, unless communication back to standby interface then press call button again.

▼

Press the **talking** button on indoor monitor

▼ Stop ringing

ⓘ **NOTICE:**

📞 Start conversation with outdoor camera

If no one at home or no one answer, outdoor unit will prompts "Please leave a message", it will have 60s message time, and back to standby mode after 60s.

▼ The conversation duration is 120s at a time

Unlock the lock when in a call, press unlock button to unlock the door, ring tone stop.

Press the **unlock** button on indoor monitor	► release the door lock	Press the hang up button on indoor monitor	►	End

ⓘ **NOTICE:**

1. Conversation ended automatically in 20s after unlock.
2. The monitor which with SD card will record the video from call to end of talk.(The record mode is video)
3. The monitor which with SD card will make a snapshot while outdoor station make call, user can make snapshot anytime while talking in manual.
4. During the talking, there will be text and voice prompts when outdoor station 2 calls the indoor monitor or triggers the alarm.
5. Please use one outdoor station call monitor at a moment, the second outdoor station will not ring if another one already making call.
6. The monitor with SD card, set its record mode in video and open message function, if monitor not pick up the call in 30s, outdoor station will remind visitor "Please leave a message"and record a 30s video then stop and back to standby status.
7. In operating mode, outdoor station call to monitor, monitor will interrupt the operating mode and enter the call mode.

CALL TRANSFER TO OTHER EXTENSION

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

Outdoor unit call indoor monitor and conversation is underway

▼

Press transfer call button to activate the function of **call transfer to the extension which user choose**
Note: The extension user choose to call for must be online and connected correctly.

▼

The called slave monitor will get ring tone

Press the **talking** button on called of indoor units ▶ Talking with visitor ▶ The Electric lock can be opened ▶ End the call and return to standby mode.

INTERNAL COMMUNICATION AMONG INDOOR UNITS

At least 2 indoor units is required.

Standby mode

Click the monitor to enter the main menu page, activate the function of call transfer

▼

Select a extension which user want, and click to confirm the call

▼

The called slave monitor will get ring tone

Press the **talking** button on called of indoor units

▼

Notice: Intercom can't tune out color option, can't adjust communication volume.

Start conversation among indoor units ▶ Press Hang up button ▶ End

MONITORING

Clicking in the main menu and entering the monitoring interface will display four device icons of outdoor station 1, outdoor station 2, camera 1, camera 2, and select one of them to monitor, and the corresponding image will be displayed on the screen.
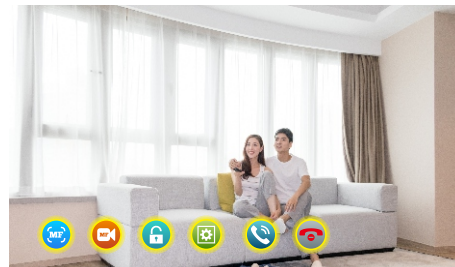
1. The duration of monitoring a device is fixed at 60 seconds, and automatically returns to standby mode after 60 seconds.
2. When monitoring the outdoor station, the indoor unit can hear the sound of the outdoor station, and the outdoor station can not hear the sound of the indoor unit.
3. When monitoring the outdoor station, press the answer button to talk with the door machine, press the unlock button to open the outdoor station lock, press the photo button to capture the picture, and press the video button to record the video. You can also enter the image setting to adjust the call volume, screen brightness, contrast ,saturation.
4. Press the hang up button to end monitoring or talking and return to standby mode

ⓘ NOTICE:

1. While only turn on one channel(For example turn on door1) , can press monitor button one more time to end the monitoring. But it need to off cam1,cam2, door2. If one of the channel turn on but without device, it is without image while monitor this device.
2. While a system have 2 monitor or more than 2monitors, both master one and slave one can do monitor meanwhile, but all of them will show same image from outdoor.
3. Talk with outdoor station while in monitor status, visitor press call button, system will stop monitoring and switch to call mode.
4. On monitoring status, if need to make snapshot or record video, please operate it in manual with SD card.

MOTION DETECTION

1. In standby mode, click monitor > Setting > Outdoor station Setting / Camera Setting > Select Device > Select motion detection switch to turn on motion detection.

2. In standby mode, click monitor > Setting > System Setting > select MD preview switch to start motion detection preview

3. Enable door station or camera motion detection, on standby status , motion detection will activated if someone move in front of door station or camera. if monitor turn on motion detection pre-view function, monitor will open display and show image while recording; if monitor turn off motion detection pre-view function, monitor will not show image while recording(but will make record in backstage , can check the picture or video on record history).

Motion detection with following conditions:

1. While only turn on 1 channel motion detection, for example door1, if there is someone move in front of door1, door1 motion detection will activated. If other device motion detection not activate if also have something move in front of them.
2. While more than 2Channel motion detection turn on, the device which detect first will activated motion detection first, the other device need to wait the first device end of motion detection then can activated.
3. If monitor with SD card, it will make snapshot or record video automatically while motion detection activated.
4. During digital photo frame running: if motion detection pre-view turn on, the digital photo frame will stopped and switch to motion detection status while motion detection activated; if motion detection pre-view off, digital photo frame will interrupted and remind "Motion detection happened" while motion detection happened.
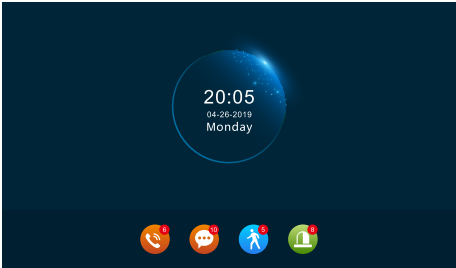
Note: Door station and CAM motion detection record duration default 1min, it will end motion detection automatically while time is up.

STANDBY MODE

Standby mode: clock mode, digital photo frame mode.

1. Clock Mode

Clock mode interface include 2 part: year/month/date/hour/minute; Talk record/ message record/ motion detection record/alarm record for shortcut key.

1). On menu mode, monitor will back to standby status in 1min if without any operating. (besides play music, video and picture).
2). On clock mode, display close in 1min if without any operating.
3). On close screen status, touch monitor and return to the clock mode (premise that in the state of clock is turn on and the digital photo frame is turn off)
4). If user has unread call history, message, motion detection record, alarm record, then it will has a specific icon on the standby screen shows unread message amount.
5). In clock mode, user can select the shortcut key to enter this record interface to view.

2. Digital Photo Frame Mode

digital photo frame mode will play the pictures in SD card in standby mode.

ⓘ **NOTICE:**

When insert SD card in to monitor SD card slot, the system will create a "Digital Frame" folder, user need to put the pictures into this folder before system play them.
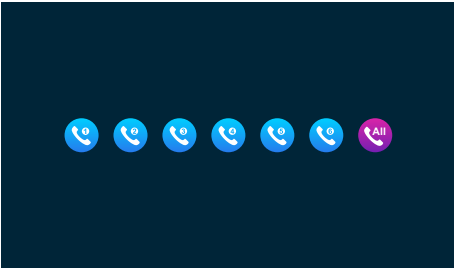
MENU OPERATIONS

In standby mode, click the monitor to enter the main menu interface. The main menu interface is as follows. The main menu includes extension call, setup, monitoring, multimedia, event, home, lock, and standby. On the menu, you can return to standby mode by pressing the back or standby button.
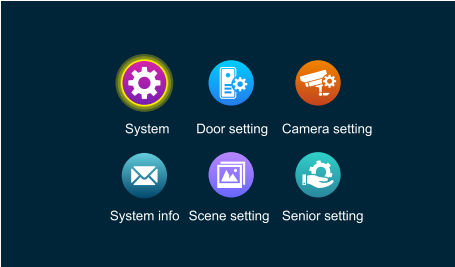
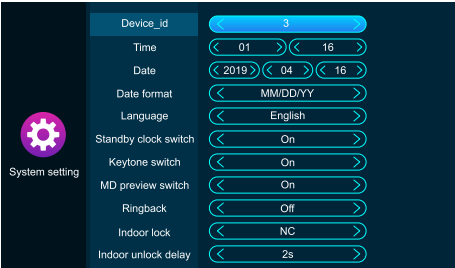|			
Extension call	Setting	Monitoring	Media
Event	Dormant	Lock	Standby
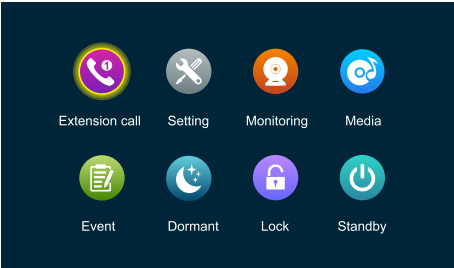
1.Call Extensions

After entering this page, you can see 6 icons. The first five are other extensions except the local device. If user selects one of them to call, user can talk to the other extension (indoor unit). The sixth icon is to call all indoor units. After selecting this icon to call, all indoor units will ring, only one indoor unit can answer the call and make intercom.

2. Setting

System	Door setting	Camera setting
System info	Scene setting	Senior setting

2.1 System Setting

System setting

Device_id	3
Time	01 16
Date	2019 04 16
Date format	MM/DD/YY
Language	English
Standby clock switch	On
Keytone switch	On
MD preview switch	On
Ringback	Off
Indoor lock	NC
Indoor unlock delay	2s

【Device ID】 Means the local device's extension ID, range from 1 to 6. 1 means the monitor is Master, 2 to 6 means the indoor monitors are Slave. Each family support 6 indoor monitors maximum.

【Time and date】 The time is 24-hour system，user can set hour, minute. Date can set year, month, day.

【Date format】 YY-MM-DD/MM-DD-YY/DD-MM-YY three types.

【Language】 include multiple languages.

【Standby clock switch】 Indicates whether the clock is turned on during standby. If it is off, it will be black when it returns to standby from the main menu interface.

【Keytone switch】 indicates whether there is a button sound when operating the indoor unit.
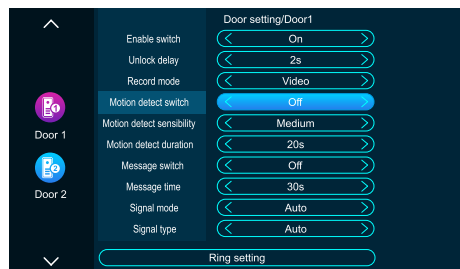
【MD preview switch】 Indicates whether the detected image is displayed on the indoor unit when the motion detection triggers. If the preview is turned on, the detected image will displayed on the indoor unit; the preview is off, the detected image will not displayed, but the background recording is still performed.

【Ringback】 indicates that the ringing sound of the outdoor unit can be turned on or off.

【Indoor lock】 normally open (NO) or normally closed (NC), when the normally open state is set, user should install power-on unlock type lock, and when it is set to the normally closed state, user should install power-off unlock type lock such as magnetic lock.

【Indoor unlock delay】 Indicates the unlocking time of the indoor unit. The range is 1s-10s, and the default is 2s.

2.2 Outdoor Station Setting

Door setting/Door1

Door 1	Enable switch	On
	Unlock delay	2s
	Record mode	Video
	Motion detect switch	Off
	Motion detect sensibility	Medium
	Motion detect duration	20s
Door 2	Message switch	Off
	Message time	30s
	Signal mode	Auto
	Signal type	Auto
	Ring setting	

This interface can set the parameters of outdoor station 1 and outdoor station 2 respectively.

【Enable switch】 Indicates the status of this channel. If set to on, the outdoor station can be used normally. If set to off, the outdoor station is disabled. The enable switch of the outdoor station 1 is not adjustable and can only be turned on.

【Unlock delay】 Indicates the unlocking time of the outdoor station. The range is 1s-10s, and the default is 2s.

【Record mode】 There are two recording modes, Record and Snapshot. Record means that when a visitor presses the call button of the outdoor station, the indoor monitor with the SD card automatically starts recording until the end of the call or the user presses the hang up button to manually stop. Snapshot means that when a visitor presses the call button of the door machine, the indoor monitor with the SD card automatically captures the photo of outdoor station camera, and the user can also manually press the setting button to continuously capture.

【Motion detect switch】 Indicate whether to detect and record when an object moves in front of the device.

【Motion Detect Sensibility】 Indicates the sensitivity of motion detection. Including low, medium and high, low: indicates that the motion detection is difficult to trigger; medium: indicates that the motion detection is easier to trigger; and high: indicates that the motion detection is easy to trigger.

【Motion detection duration】 The recording time of motion detection can be set to 1-5 minutes, and the default is 1 minute.
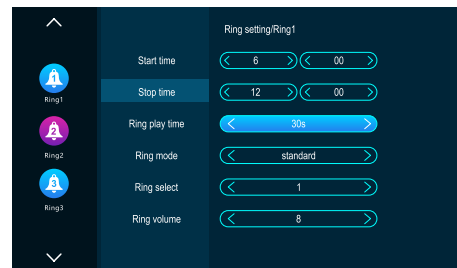
【Message switch】 Indicates that if a visitor calls the indoor unit, the resident is not at home or fails to answer whether to prompt the guest to leave a message and record the message. This switch is turned off by default.

【Message time】 Indicates how long the visitor can leave a message after entering the message state. Can be set to 30s, 60s, 120s, the default is 30s.

【Signal system】 It is divided into three modes: Auto, PAL and NTSC. When set to Auto, the indoor monitor will automatically detects the standard of the outdoor station.

【Signal type】 There are seven signal types: AHD1080, AHD720, CVBS, CVI1080, CVI720, TVI 1080, and TVI720. If the signal system is set to PAL or NTSC, these seven types can be selected and used together. If the signal system is set to Auto, the signal type is not selectable and is fixed to the Auto signal type.

【Ring setting】 Here you can set the ringing duration, ringing mode, ringtone selection, ringer volume of the corresponding channel in different time periods.

Ring setting/Ring1

Ring1	Start time	6	00
	Stop time	12	00
Ring2	Ring play time	30s	
	Ring mode	standard	
Ring3	Ring select	1	
	Ring volume	8	

Ringtone 1 default time period is 6:00-12:00, ringtone 2 default time period is 12:00-18:00, ringtone 3 default time is 18:00-6:00, time period is adjustable.
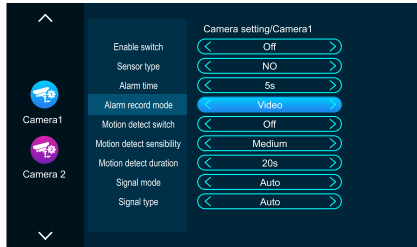
【Ring Play Time】 When the outdoor station calls the indoor monitor, the time period from beginning to stop to ring. The time range is 5s-45s, the default is 30s.

【Ring Mode】 It has standard mode and user-defined mode. The standard mode means that the default ringtone in the indoor unit is used as the calling ringtone; the custom mode means that the ringtone in the SD card is used as the calling ringtone (the ringtone here needs to be placed in the "Ring" folder in the SD card, this folder is in the SD card is automatically created when it is inserted into the indoor unit, or can be created manually on the PC side.

【Ring Select】 In standard mode, there are 12 ringtones for optional; the default is the first ringtone. In user-defined mode, you can select the ringtone in the "Ring" folder as the call ringtone here.

【Ring Volume】 Here you can set the ringer volume and button volume of the indoor monitor, ranging from 1-10. The default is 7

2.3 Camera Setting

【Enable switch】 Indicates the status of this channel. If set to On, the camera can be used normally. If set to off, the camera is disabled.

【Sensor type】 The CAM1, CAM2 channels correspond to the i/o status (see the status description below), which means that when an alarm is triggered, it activates the corresponding channel to initiate an alarm log or capture a snapshot.

i/o status type

【Normally open】 Under normal conditions, the sensor is kept at a constant low voltage. If the output voltage goes from low to high, an alarm is triggered.

【Normally closed】 Under normal conditions, the sensor is kept at a constant high voltage. If the output voltage goes from high to low, an alarm is triggered.

【Off】 If the external sensor alarm is not used, set i/o to "Off".

【Alarm time】 Indicates the ringing duration after the CAM triggers the alarm. The time range is 1-20s and the default is 5s.

【Alarm record mode】 There are two recording modes: Record video and Snapshot. Record means that when an alarm is triggered, the indoor monitor with the SD card automatically starts recording until the alarm ends or the user presses the hang up button to stop manually. Capture is when the alarm is triggered, the indoor monitor with the SD card automatically captures the photo of the camera. The user can also manually press the Setting button to capture continuously.

【Motion detect switch】 Indicates whether to detect and record when an object moves in front of the device.

【Motion Detect Sensibility】 Indicates the sensitivity of motion detection. Including low, medium and high, low: indicates that the motion detection is difficult to trigger, medium: indicates that the motion detection is easier to trigger, and high: indicates that the motion detection is easy to trigger.

【Motion detect duration】 The recording time of motion detection can be set to 1-5 minutes, and the default is 1 minute.

【Signal mode】 There are three modes: Auto, PAL, and NTSC. When set to Auto, the indoor opportunity automatically detects the camera's system.

【Signal type】 There are seven signal types: AHD1080, AHD720, CVBS, CVI1080, CVI720, TVI1080, and TVI720. If the signal system is set to PAL or NTSC, these seven types can be selected and used together. If the signal system is set to Auto, the signal type is not selectable and is fixed to the Auto signal type.

2.4 System Info
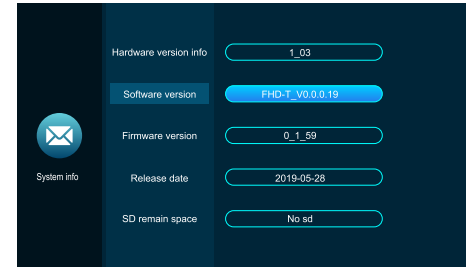
【Hardware version info】 indicate the version number of the current hardware.
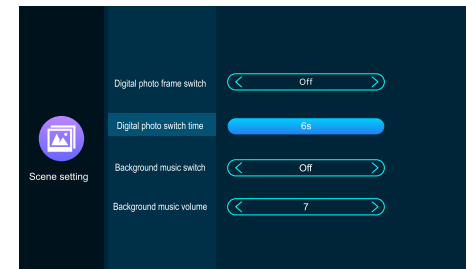
【Software version】 indicate the current software version number.

【Firmware version】 Indicate the current MCU version number.

【Release date】 Indicate the release time of the current indoor monitor software

【SD remain space】 Indicate the remaining space and total space of the current SD card, display No sd when no SD card is inserted.

2.5 Scenario Setting

【Digital photo frame switch】 Indicate whether to open the digital photo frame. After the digital photo frame is turned on, the indoor unit will play the picture in the SD card after returning to the standby mode (only for models with SD card, user need to put the picture file in the "Digital Frame" folder in the SD card).

【Digital photo frame time】 indicates the time when the indoor unit is in the digital photo frame state, how long a picture is played.

【Background music switch】 Indicates whether background music is on in standby mode. The background music can be played when the background music switch is turned on and the indoor unit needs to insert an SD card. (Only for models with SD card, user needs to put MP3 music files in the "BgMusic" folder in the SD card)

【Background music volume】 indicates the volume of the background music, the volume range is 1-10

2.6 Advanced Setting
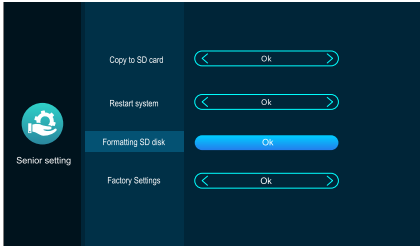
【Automatic storage function】 Monitor not inserted into the SD card, each time call, alarm, or motion detection is automatically captured a picture is stored as an event record and stored in the FLASH. If manual capture is carried out, will also capture an image is stored as an event record on the FLASH.

Note: This function can only capture photos, can't record. The storage space of FLASH is about 5M, and the previous record will be automatically overwritten when the memory is full.

【Copy to SD card】 after selecting, it will prompt whether to copy to SD card, click "Yes" indoor monitor to copy the picture with flash image to SD card and prompt box will pop up to indicate that it is copying. After copying successfully, exit the prompt box automatically; click "No" to exit the prompt box.

【Restart system】 After selecting the system will be prompted whether to restart the system, click "yes" to restart the indoor monitor.

【Formatting SD disk】 After selecting, it will prompt whether to format the SD card. Click "Yes". The indoor unit will format the SD card and prompt "Formattingдддд". After successful, it will prompt "Formatted successfully" and " The SD card was inserted successfully." If the SD card is formatted without an SD card in the indoor unit, it will prompt "no SD card".

【Factory setting】 After the selection will prompt whether to restore the factory settings, click "Yes" indoor monitor will be restored to the factory and prompt "Restore factory settings are successfully, the system is about to restart".
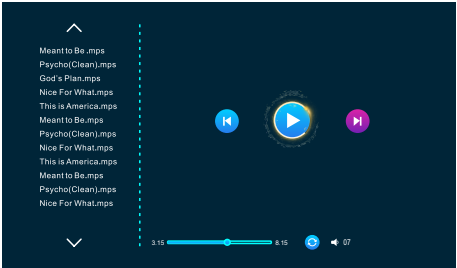
3 Multi-Media
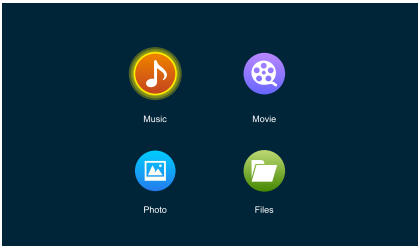
3.1 Music
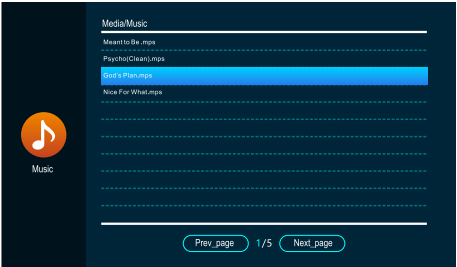
In the multi-media interface, click on the music menu to see a list of music files. In the music player interface, you can see the music list, function buttons, playback mode, play progress, and volume.
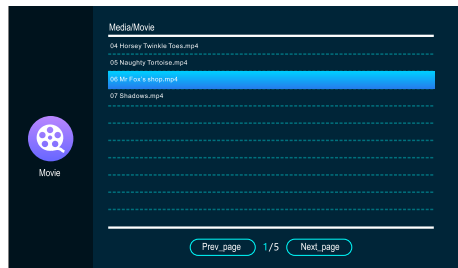

Last song	Next song	Pause	Play
Full Cycle	Single Cycle	Sequential Play	Random Play

1. Select the playback mode and switch it once per click.
2. After selecting the volume, adjust the volume by dragging the cursor. The volume range is 0-10, the default is 07.
3. During playback, fast forward or fast backward by dragging the progress bar cursor.

1. User need to put MP3 music files in the "BgMusic" folder in this SD card to be found and displayed.
2. If a visitor calls the room or triggers an alarm during the playback, the playback will stop and switch to the outdoor station or camera screen.

3.2 Movie

Media/Movie
- 04 Horsey Twinkle Toes.mp4
- 05 Naughty Tortoise.mp4
- 06 Mr Fox's shop.mp4
- 07 Shadows.mp4

Movie

Prev_page 1/5 Next_page

In multi-media interface, client move icon can view the movie file list.

User can fast forward or rewind by dragging the progress bar cursor during movie playback. Tap the screen to adjust the playback progress and function buttons. The volume range is 0-10 and the default is 07.

1. Save the video in the root directory of the SD card.
2. If a visitor calls the indoor unit or triggers an alarm during the playback, the playback will stop and switch to the outdoor station or camera screen.
3. Movie playback is a list loop playback, after played one it will automatically play next part, it will not stop playing; if only one movie will repeat the same part.

3.3 Photos

Media/Photo
- 1.jpg
- 2.jpg
- 3.jpg
- 4.jpg

Photo

Prev_page 1/5 Next_page
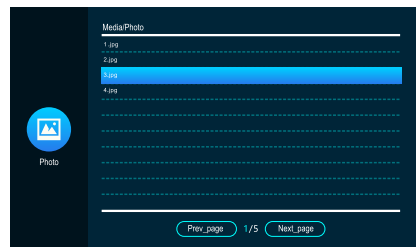
In the multi-media interface, click the photo icon to see a list of photo files.
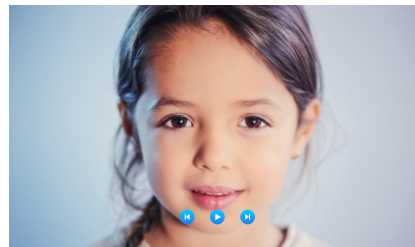
1. When the picture is played, the next picture will be played automatically, unless the playback is paused (the time for switching the next picture is the same as the time for switching the digital photo frame).
2. After calling out the function key, press ⏸ once to pause the play, and then press once ◀ or ▶ play the previous or next picture,and press the return key once to return to the picture list. (Click anywhere on the screen to bring up the function key)
3. User need to put a photo file in the "Digital Frame" folder in this SD card to be found and displayed.

3.4 Files Manager

Media/Files
- SD
- MUSIC
- PHOTO
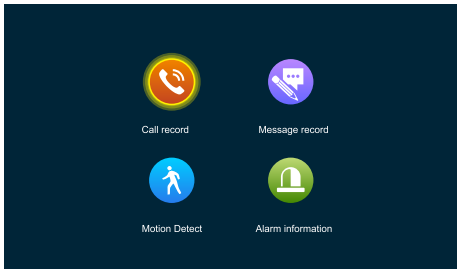- USER

Files

Prev_page 1/5 Next_page
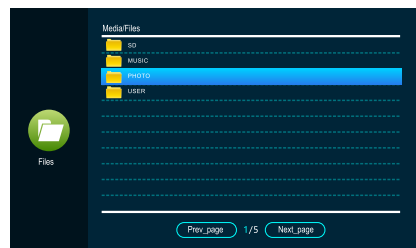
In the multi-media interface, click File to see the SD card folder. Enter the SD card to see the automatically created folder. The automatically created folders are "Digital Frame" folder, "Bg Music" folder, "Message Import" folder, "Ring" folder, "DOORBELL" folder (this folder is hidden in the indoor unit, only when it is plugged into the computer it can be seen.)
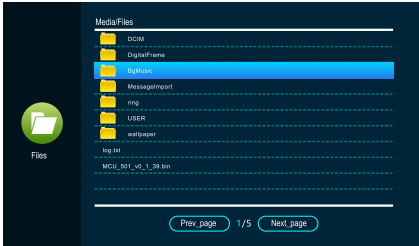
【"DigitalFrame" folder】Save the picture of the digital photo frame

【"BgMusic" folder】Store background music files for indoor units.

【"MessageImport" folder】The message customization function allows the user to set the user defined leave message alert tone.

1. Store the recorded voice file in this folder.
2. In the file manager, find and click the file, and then automatically import it to flash to replace the default message alert tone.

Note: The voice file request is in mp3 format, and the file size is up to 2M.

【"Ring" folder】Store user defined ringtone files for indoor units

【"DOORBELL" folder】There are four folders in this folder, namely "ALARM" folder, "CALL" folder, "MD" folder, "MSG" folder.

【"ALARM" folder】Store the records after the indoor unit triggers the alarm.

【"CALL" folder】Store the call history of the indoor unit and the outdoor station.

【"MD" folder】Store the motion detection record of outdoor station.

【"MSG" folder】Store the message record of the indoor unit

All the records of the above four folders can be seen in the event menu.

4 Events

User can see the call history, message record, motion detection record, alarm record, and check the type, time, device, and read of the record.

Call record:

1. Automatic snapshot or recorded video when any outdoor unit calls.
2. Any outdoor station call or under calling, manually captured the picture or recorded video.

Message record:

When the message switch is turned on, the video is automatically recorded from the beginning of the call when the call is not answered.

Motion detection record:

1. Automatically captured pictures or record when motion detection occurs on all outdoor station and cameras.
2. Manually captured pictures or video recorded in the motion detection process of all outdoor station and cameras.

Alarm information record:

1. Automatically capture pictures or recorded videos when Camera alarms.
2. Manually captured pictures or recorded videos during Camera alarm.
3.Note: After selecting the record, long press will display the open, delete, delete all, and close. In the record list, click the previous or next page to turn the page.

5 At home, Not at home, Sleep mode

1). At home mode: normal working mode.
2). Not at home mode: The visitor enters the message mode directly after making a call.
3). No disturb mode: In normal working mode, there is no ringing tone and prompt tone when calling.

6 Unlock/lock

Open the lock connecting to the indoor unit

7 Standby

Return to standby page.

8 Picture parameter setting

After the outdoor station calls, select the image settings in the indoor monitor. The image setting parameters include: call volume, brightness, contrast, and saturation. After selecting a parameter, adjust the parameter by dragging the cursor.

Note: color parameter can be setted in monitoring, calling, calling, alarm, motion detection and other images.
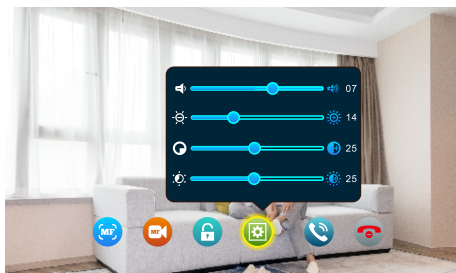
【Intercom volume】The value can be set from 0 to 10, the default is 07

【brightness】The value can be set from 0 to 50, default value is 25.

【contrast】The value can be set from 0 to 50, the default is 25.

【saturation】The value can be set from 0 to 50, the default is 25.

Parameter overview

Product Type	AHD 720P/1080P、CVBS Video Input、CVI Video Input、TVL Video Input
Monitor	7" TFT LCD / 10" TFT LCD
Resolution	1024*600
System	PAL/NTSC system
Intercom Mode	Analog call: half duplex
Power Consumption	Max.1200mA
Power	External power DC 12V; Built-in power AC100-240V
Operating temperature	0~+50℃
Installation	Surface mount
SD Card Capacity	2GB~128GB class 10TF card (Micro SD) Note: read/write speed ≥Class10
Video Input Signal	CVBS CVI TVI AHD 1080P
Motion Detection	4 channel motion detection
System	Support 6 indoor unit + 2 outdoor station+ 2 CCTV cameras
Function	Unlocking/Monitoring/Internal intercom/Transfer Call/History
Advantage	playing/clock/Leave message/ Background music

ALARM INSTRUCTIONS

Terminal and GND is shorted, the alarm is activate, the speaker of the indoor unit rings and continues 120s, during this time, click ☎ to stop alarming and enter the standby mode.

For the models with SD card, simultaneously, triggers recording or snapshotting (related to the system settings). The recording time is 120s, during this time, click ☎ 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.

INSTALL THE INDOOR UNIT

⚠ **Note:**

• Please be far from the devices with intense radiation: TV, DVR, etc.
• Do not disassemble privately to avoid the electric shock.
• Do not drop, shake or knock the device, otherwise will damage the elements.
• Choose the best position to install, the horizontal view is 150cm.
• Please power down before installation.
• Keep at a distance of more than 30cm with AC power to avoid interference.
• Away from the water, magnetic field and chemicals.

150-160cm

How to install the indoor unit

plastic   stent   cables
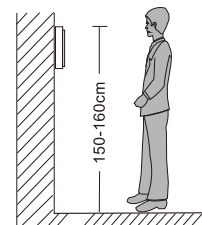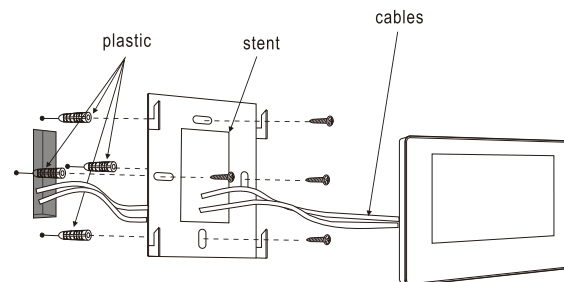
ACCESSORIES
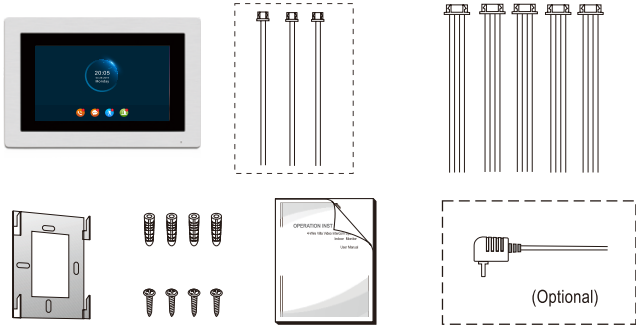
(Optional)

Indoor unit

- Indoor unit --- 1pcs
- Plastic Anchors --- 4pcs
- Screws --- 4pcs
- Bracket -- 1pcs
- 4 Pin line --- 5pcs
- 2 Pin line (optional, please take actual model as quasi) ------------------------------------ 2pcs
- User manual --- 1pcs
- External power adapter (optional) --- 1pcs

* If the indoor unit has a built-in power supply, there is no external power adapter in the above picture.

OPERATION INSTRUCTION
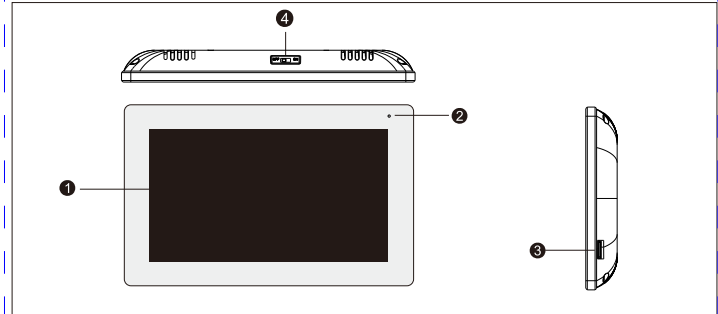
WiFi Video Intercom System

Indoor Monitor

User Manual

MC-0521 V2.0

CONTENTS

1. INDOOR MONITOR SPECIFICATION

NO.	Name	Descriptions
1	TFT display	View visitor's image displayed on TFT screen
2	Microphone	Transmit the voice to door station
3	SD card slot	For the models with SD card, Insert the SD card for recording
4	Switch button	While monitor power on, switch this button to turn off or turn on monitor

2. SYSTEM INFO

2.1 INSTALLATION NOTE

1. Electrical locks / alarms / cameras are not included in the package, you can buy electrical locks that fit the actual requirements

2. Factory default supports the lock of the normally open (NO) unlock mode, dry contact is opened in the normal state, lock remains normally dosed. If press unlock button, the dry contact becomes dosed, Release the lock.

3. Built-in or external power supply is optional. Suitable for a wide voltage range (AC100V-240V). Unplug the AC power plug before installing the device (shown as below).
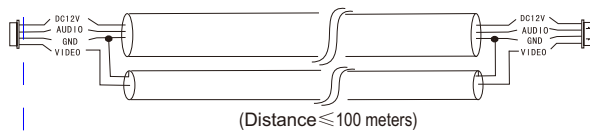
4. For the use and selection of wires, please refer to the following. (cable quality influence video and voice transfer distance)

1). 4C ordinary unshielded wire and shielded wiring

Distance ≤28m(4*0.2mm^2); Distance ≤50m(4*0. 3mm^2); Distance≤80m(4*0. 5mm^2)

2). 3C ordinary unshielded + video cable(RG-59) connection method

DC12V
AUDIO
GND
VIDEO

DC12V
AUDIO
GND
VIDEO

(Distance≤100 meters)

3. Category 5 network cable connection (not recommended)

DC12V
AUDIO
GND
VIDEO

DC12V
AUDIO
GND
VIDEO

(Unshielded network cable distance≤50 meters)

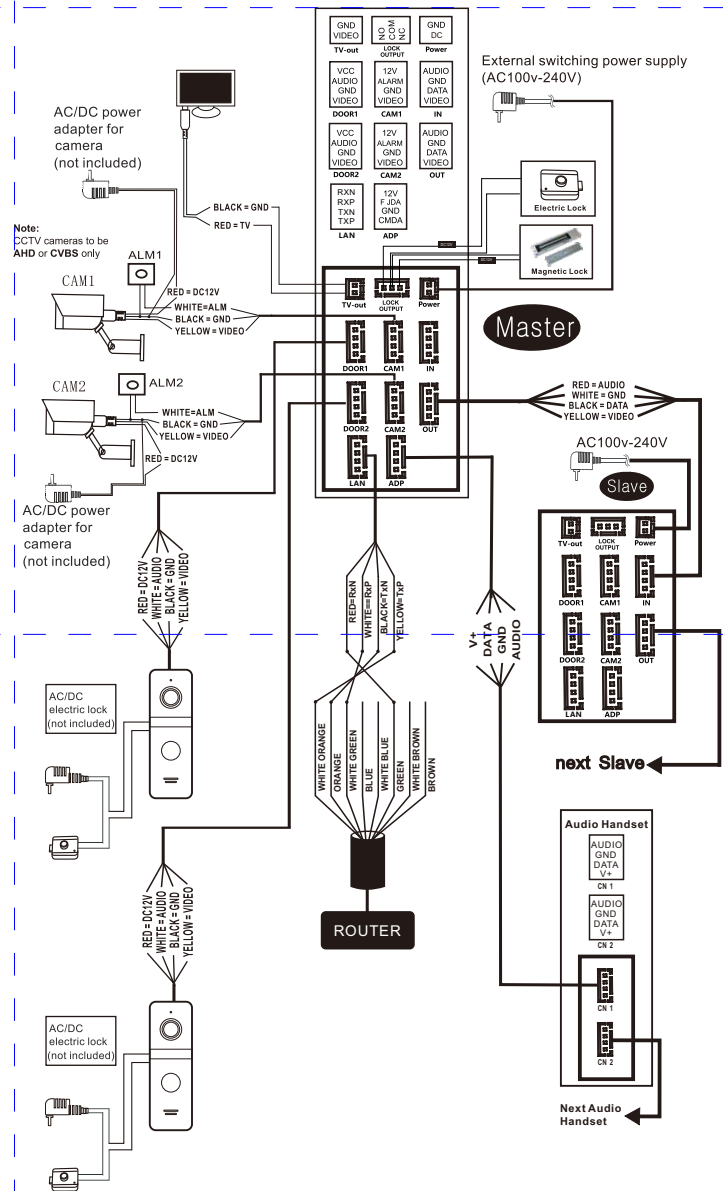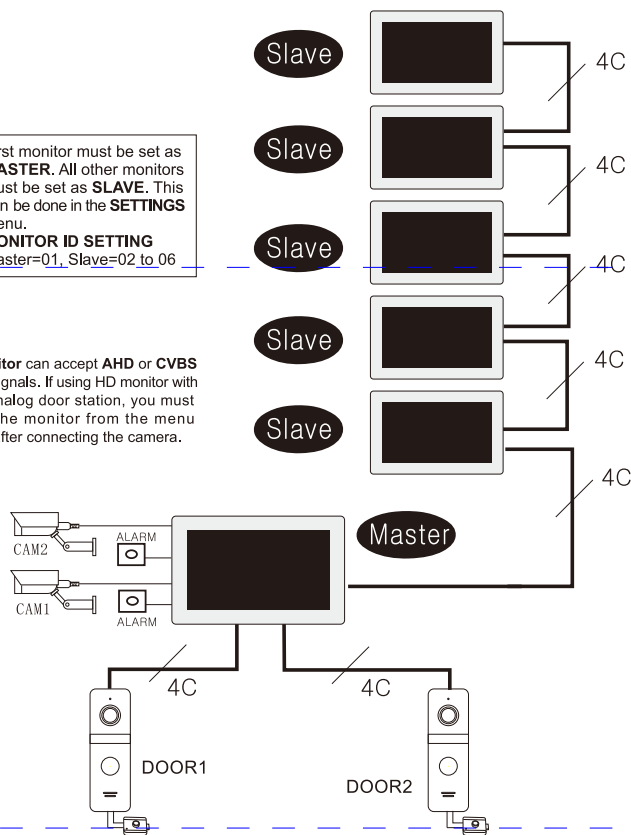## 2.2 Wiring Diagram

First monitor must be set as **MASTER**. All other monitors must be set as **SLAVE**. This can be done in the **SETTINGS** menu.
MONITOR ID SETTING
Master=01, Slave=02 to 06

Note:
HD Monitor can accept **AHD** or **CVBS** analog signals. If using HD monitor with **CVBS** analog door station, you must reboot the monitor from the menu system after connecting the camera.

Slave
Slave
Slave
Slave
Slave

4C
4C
4C
4C
4C

CAM2
CAM1
ALARM
ALARM
Master

4C
4C

DOOR1
DOOR2

AC/DC power adapter for camera (not included)

Note:
CCTV cameras to be **AHD** or **CVBS** only

CAM1
ALM1
RED = DC12V
WHITE = ALM
BLACK = GND
YELLOW = VIDEO

CAM2
ALM2
WHITE = ALM
BLACK = GND
YELLOW = VIDEO
RED = DC12V

AC/DC power adapter for camera (not included)

AC/DC power adapter for camera (not included)

BLACK = GND
RED = TV

GND VIDEO | NO COM NC | GND DC
TV-out | **LOCK OUTPUT** | **Power**

VCC AUDIO GND VIDEO | 12V ALARM GND VIDEO | AUDIO GND DATA VIDEO
DOOR1 | **CAM1** | **IN**

VCC AUDIO GND VIDEO | 12V ALARM GND VIDEO | AUDIO GND DATA VIDEO
DOOR2 | **CAM2** | **OUT**

RXN RXP TXN TXP | 12V F.JDA GND CMDA
LAN | **ADP**

TV-out | LOCK OUTPUT | Power
DOOR1 | CAM1 | IN
DOOR2 | CAM2 | OUT
LAN | ADP

Master

External switching power supply (AC100v-240V)

Electric Lock
Magnetic Lock

RED = AUDIO
WHITE = GND
BLACK = DATA
YELLOW = VIDEO

AC100v-240V

Slave

TV-out | LOCK OUTPUT | Power
DOOR1 | CAM1 | IN
DOOR2 | CAM2 | OUT
LAN | ADP

next Slave

RED = DC12V
WHITE = AUDIO
BLACK = GND
YELLOW = VIDEO

RED = DC12V
WHITE = AUDIO
BLACK = GND
YELLOW = VIDEO

AC/DC electric lock (not included)

AC/DC electric lock (not included)

RED = RxN
WHITE = RxP
BLACK = TxN
YELLOW = TxP

V+
DATA
GND
AUDIO

WHITE ORANGE
ORANGE
WHITE GREEN
BLUE
WHITE BLUE
GREEN
WHITE BROWN
BROWN

ROUTER

Audio Handset

AUDIO GND DATA V+
CN 1

AUDIO GND DATA V+
CN 2

CN 1

CN 2

Next Audio Handset

3

4

ⓘ If the network cable crystal plug uses 568B wire sequence, the wiring method should be as follows:

1). The TXP pin of RJ45<->Wiring yellow<->1. The white orange of the network cable.
2). The TXN pin of RJ45<->wiring black<->2. The orange of the network cable.
3). The RXP pin of RJ45<->wiring white<-> 3. The white green of the network cable.
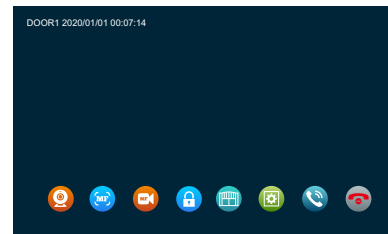4). The RXN pin of RJ45<->wiring red<->6. The green of the network cable.

ⓘ If the network cable crystal plug uses 568A wire sequence, the wiring method should be as follows:

1). The TXP pin of RJ45<->Wiring yellow<->1. The white green of the network cable.
2). The TXN pin of RJ45<->Wiring black<->2. The green of the network cable.
3). The RXP pin of RJ45<->wiring white<-> 3. The white orange of the network cable.
4). The RXN pin of RJ45 <-wiring red <-> 6. The orange of the network cable.

3. OPERATION INTRODUCTION

3.1 BUTTON INSTRUCTIONS

Press the call button of outdoor station to call the indoor monitor or under monitoring status as below picture shows

DOOR1 2020/01/01 00:07:14

pic 1

Name	Symbol	Description
Monitoring		Monitor image of door station and camera.
Snapshot		Snap the screen displayed by the door station and camera.
Recording		Start or stop recording the screen displayed by the door station and camera.
Door station unlock		Move the cursor to" 🔒 "when calling, detecting, or monitoring and press the set key to open the door lock which connect to door station.
Indoor monitor relay		Move the cursor to" "when calling, detecting, or monitoring and press the set key to open the doorlock which connect to indoor monitor.
Setting		Adjust the volume, brightness, contrast and color saturation.
Transfer call		During the conversation between the door station and the indoor monitor, move the cursor to" "and press the setting key, extension option will appear, you can select and click the serial number of a certain device to transfer the call.
Answer		1.Answer the visitor's call and dialogue. 2.When monitoring, press the answer key to talk to the door station.
Hang up		when talking, alarming, monitoring and motion detection, move the cursor to " "and press the set button to hang up and return to the standby interface.
Return		Return back to standby mode or exit.

3.2 VISITOR CALL

Standby mode

The visitor presses the Call button on Door Station 1

The visitor presses the call button on Door Station 2

▼ A 30s of continuous Ding Dong tone is heard inside and outside

The visitor's image automatically displayed on the screen

▼

Press the Talk button on indoor monitor

▼ Stop ringing

Start conversation with Door Station

▼ The conversation duration is 120s at a time

Press the Unlock button on indoor monitor

▶ Unlock the door of outdoor station

▶ Press the hang up button on indoor monitor

▶ End

NOTE:

If the call buttons of both Door Stations are pressed about the same time, preference would be given to the Door Station whose call button was pressed first. Please be aware there is no indication at the second Door Station. After the indoor monitor returns to Standby Mode, it can accept calls from the second Door Station.

NOTE:

The indoor monitor will automatically go into Standby Mode, if you are not at home, or have not answered the call within 60s.

NOTE:

1. Conversations ended automatically in 20s after unlock.
2. Set the monitor with SD card record mode as video, the monitor will start record a video once calling happened till end of conversation.
3. Set the monitor with SD card record mode as snapshot, a photo will be captured when the call is made and can be manually captured throughout the call.
4. During conversations, there will be a tooltip on the monitor's display when another outdoor station calls or triggers the alarm.
5. If press two outdoor stations make call almost at the same moment, the first one outdoor station which make call will ring, and the other one has no response unless the conversation ended and the monitor returns to standby mode, then press the calling button again.
6. Set the monitor with SD card record mode as video and turn on message function, if monitors don't pick up the call in 30s, the outdoor station will remind visitors to leave a message. the default message time is 30s,the monitor will return to standby mode in 30s.
7. Any operating on indoor monitors will interrupted if outdoor stations call monitor, will enters to the calling mode directly.

3.3 VISITOR CALL AND CALL TRANSFER TO OTHER EXTENSIONS

3.3.1 Call transfer to other extension

Internal communication function requires at least two Indoor Monitors and one Door Station to be connected.

Door Station calls indoor monitor and conversation is underway

▼

Press transfer call button to active the function of call transfer to the extension which user choose
Note: The extension user choose to call for must be online and connected correctly.

▼ The target monitor will ring

Press the Talk button of the receiving monitor to accept the incoming call

▶ Talking with visitor

▶ The electric lock can be opened

▶ End the call and return to standby mode

3.3.2 Internal communication among indoor units

At least 2 indoor monitors are required.

Standby mode

Click the monitor to enter the main menu page, activate the function of call transfer

▼

Select a extension which you want, and click to confirm the call

▼ The target monitor will ring

Press the Talk button of the receiving monitor to accept the incoming call

▼

Start conversation among indoor units

▶ Press hang up button

▶ End

NOTE:

Intercom can't tune out color option, can't adjust communication volume.

3.4 MONITORING

Clicking in the main menu and entering the monitoring interface will display four device icons of outdoor station 1, outdoor station 2, camera 1, camera 2, and select one of them to monitor, and the corresponding image will be displayed on the screen.

DOOR1   AHD 1080P

1.Monitor door bell duration time is 1min, monitor camera duration time is 5min, while monitor time is up will back to standby status automatically.
2. When monitoring the outdoor station, the indoor unit can hear the sound of the outdoor station, and the outdoor station can not hear the sound of the indoor unit.
3. When monitoring the outdoor station, press the answer button to talk with the door machine, press the unlock button to open the outdoor station lock, press the photo button to capture the picture, and press the video button to record the video. You can also enter the image setting to adjust the call volume, screen brightness, contrast ,saturation.
4.While on monitor status, click monitor key in order of door1,cam1, door2,cam2 to switch image.
5.Press the hang up button to end monitoring or talking and return to standby mode

NOTE:

1. While a system have 2 monitor or more than 2 monitors, both master one and slave one can do monitor meanwhile, but all of them will show same image from door station.
2. Talk with door station while in monitor status, visitor press call button, system will stop monitoring and switch to call mode.
3. On monitoring status, indoor monitor will not make snapshot or record automatically, users need to make it by manual.

3.5 MOTION DETECTION

1. In standby mode, click screen > setting > door setting/camera setting > select a device > click MD switch to turn on motion detection.
2. In standby mode, click display > setting > system setting > click MD preview switch to turn on motion detection preview.
3. When motion detection of door or camera is turn on, in the standby mode, motion detection will trigger if someone moves in front of the device, and indoor monitor will show the image if the motion detection preview is open; if indoor monitor turns off the motion detection preview, monitor will not display the image but make a video in backstage, and users can find the picture or video on motion detection record history.

NOTE:

1. Indoor monitor can not make capture or record video after triggering the motion detection if without SD card.
2. Indoor monitor support 1CH motion detection only meanwhile.
3. Duration of motion detection can be adjusted, when motion detection ended, monitor will back to standby mode.
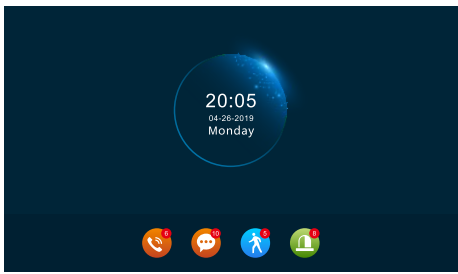
3.6 STANDBY MODE

There are two modes of standby interface: clock mode and photo frame mode.

3.6.1 Clock/date Mode

Clock mode interface includes two parts:
Date: year/month/date/hour/minute;
shortcut key: talking record/message record/motion detection record/alarm record


pic 2

1. In menu interface, Indoor monitor will back to standby mode if there is none operation in a minute, (Except playing music video picture).
2. In clock mode, display will close in 1 minute without any operation.
3. In display closed status, touch the monitor and return to clock mode, digital photo frame will be closed if the clock turns on.
4. If there is any unread calling record, message record, motion detection record, alarm record, it will show unread message amount in corresponding icon.
5. In clock mode, users can click shortcut key to enter record interface to view.

3.6.2 Digital Photo Frame Mode

Digital Photo frame mode will display photo from SD card in order while in standby mode.
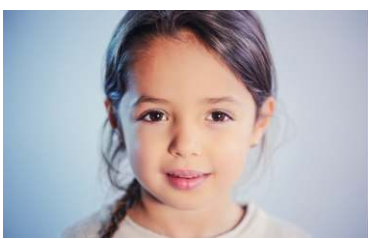
pic 3

(i) NOTE:

1. Placing SD card into the indoor monitor will automatically create a "DigitalFrame" folder. Images will only be played if they are placed into this folder.

2. When motion detection turns on, the digital frame disable.

3.7 MAIN MENU

In standby mode, click screen to enter main interface. Main interface includes transfer, setting, monitoring, media, event, at home, lock, standby. In this menu, press back button or standby button back to standby mode.
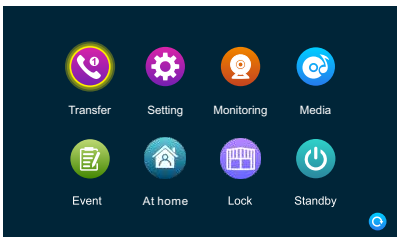
pic 4

3.7.1 Transfer

There are 6 icons in this interface, the first 5 are other extensions except the itself, users can select one to communicate with corresponding monitor. Press the 6th icon can call all the monitors, users can answer the call with any one extension.
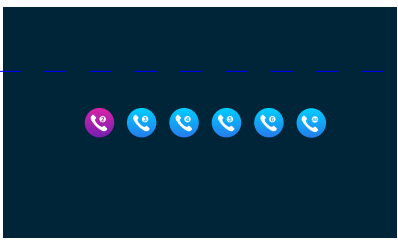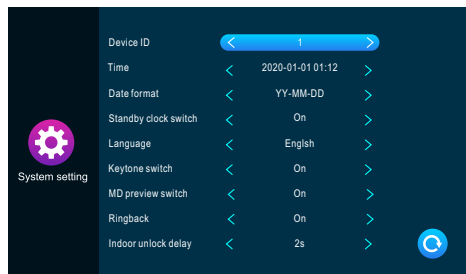

pic 5

3.7.2 Setting
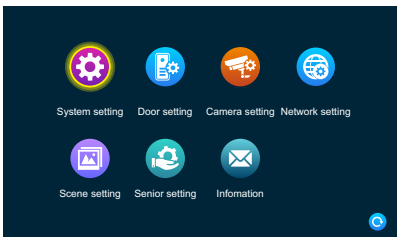
pic 6

3.7.2.1 System Setting

Device ID   1
Time   2020-01-01 01:12
Date format   YY-MM-DD
Standby clock switch   On
Language   English
Keytone switch   On
MD preview switch   On
Ringback   On
Indoor unlock delay   2s

System setting

pic 7

【Device ID】 Means the local device's extension ID, range from 1 to 6. 1 means the monitor is Master, 2 to 6 means the indoor monitors are Slave. Each family support 6 indoor monitors maximum.

【Time】 The time is 24-hour mode.

【Date format】 YY-MM-DD/MM-DD-YY/DD-MM-YY three types.

【Standby clock switch】 Indicates whether the clock is turned on during standby. If it is off, it will be black when it returns to standby from the main menu interface.

【Language】 include multiple languages.

【Keytone switch】 indicates whether there is a button sound when operating the indoor unit.

【MD preview switch】 Indicates whether the detected image is displayed on the indoor unit when the motion detection triggers. If the preview is turned on, the detected image will displayed on the indoor unit; the preview is off, the detected image will not displayed, but the background recording is still performed.

【Ringback】 indicates that the ringing sound of the outdoor unit can be turned on or off.

【Indoor unlock delay】 Indicates the unlocking time of the indoor unit. The range is 1s-10s, and the default is 2s.

3.7.2.2 Door Setting

Door1
Enable switch   On
Unlock delay   2s
Record mode   Video
Motion detect switch   Off
Motion detect sensibility   High
Motion detect duration   20s
Message switch   On
Message time   30s
Signal mode   AUTO
Signal type   AUTO
Ring setting   Ring setting

Door 1

Door 2

pic 8

This interface can set the parameters of outdoor station 1 and outdoor station 2 respectively.

【Enable switch】 Indicates the status of this channel. If set to on, the outdoor station can be used normally. If set to off, the outdoor station is disabled. The enable switch of the outdoor station 1 is not adjustable and can only be turned on.

【Unlock delay】 Indicates the unlocking time of the outdoor station. The range is 1s-10s, and the default is 2s.

【Record mode】 There are two recording modes, Record and Snapshot. Record means that when a visitor presses the call button of the outdoor station, the indoor monitor with the SD card automatically starts recording until the end of the call or the user presses the hang up button to manually stop. Snapshot means that when a visitor presses the call button of the door machine, the indoor monitor with the SD card automatically captures the photo of outdoor station camera, and the user can also manually press the setting button to continuously capture.

【Motion detect switch】 Indicate whether to detect and record when an object moves in front of the device.

【Motion Detect Sensibility】 Indicates the sensitivity of motion detection. Including low, medium and high, low: indicates that the motion detection is difficult to trigger; medium: indicates that the motion detection is easier to trigger; and high: indicates that the motion detection is easy to trigger.

【Motion detection duration】 The recording time of motion detection can be set to 10s~300s, and the default is 20s.
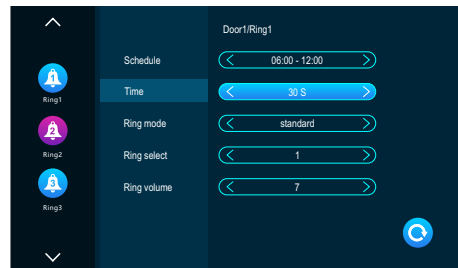
【Message switch】 Indicates that if a visitor calls the indoor unit, the resident is not at home or fails to answer whether to prompt the guest to leave a message and record the message. This switch is turned off by default.

【Message time】 Indicates how long the visitor can leave a message after entering the message state. Can be set to 30s, 60s, 120s, the default is 30s.

【Signal system】 It is divided into three modes: Auto, PAL and NTSC. When set to Auto, the indoor monitor will automatically detects the standard of the outdoor station.

【Signal type】 There are seven signal types: CVBS, AHD720, AHD1080, TVI720, TVI1080, CVI720, and CVI1080. If the signal system is set to PAL or NTSC, these seven types can be selected and used together. If the signal system is set to Auto, the signal type is not selectable and is fixed to the Auto signal type.

【Ring setting】 Here you can set the ringing duration, ringing mode, ringtone selection, ringer volume of the corresponding channel in different time periods.

Door1/Ring1
Schedule   06:00 - 12:00
Time   30 S
Ring mode   standard
Ring select   1
Ring volume   7

Ring1

Ring2

Ring3

pic 9

Ringtone 1 default time period is 6:00-12:00, ringtone 2 default time period is 12:00-18:00, ringtone 3 default time is 18:00-6:00, time period is adjustable.
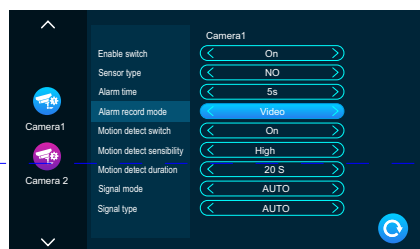
【Ring Time】 When the outdoor station calls the indoor monitor, the time period from beginning to stop to ring. The time range is 5s-45s, the default is 30s.

【Ring Mode】 It has standard mode and user-defined mode. The standard mode means that the default ringtone in the indoor unit is used as the calling ringtone; the custom mode means that the ringtone in the SD card is used as the calling ringtone (the ringtone here needs to be placed in the "Ring" folder in the SD card, this folder is in the SD card is automatically created when it is inserted into the indoor unit, or can be created manually on the PC side).

【Ring Select】 In standard mode, there are 12 ringtones for optional; the default is the first ringtone. In user-defined mode, you can select the ringtone in the "Ring" folder as the call ringtone here.

【Ring Volume】 Here you can set the ringer volume and button volume of the indoor monitor, ranging from 1-10. The default is 7.

3.7.2.3 Camera Setting

pic 10

【Enable switch】 Indicates the status of this channel. If set to On, the camera can be used normally. If set to off, the camera is disabled.

【Sensor type】 The CAM1, CAM2 channels correspond to the i/o status (see the status description below), which means that when an alarm is triggered, it activates the corresponding channel to initiate an alarm log or capture a snapshot.

i/o status type

【Normally open】 Under normal conditions, the sensor is kept at a constant low voltage. If the output voltage goes from low to high, an alarm is triggered.

【Normally closed】 Under normal conditions, the sensor is kept at a constant high voltage. If the output voltage goes from high to low, an alarm is triggered.

【Off】 If the external sensor alarm is not used, set i/o to "Off".

【Alarm time】 Indicates the ringing duration after the CAM trigger the alarm. The time range is standard mode, 1-20s and the default is 5s.

【Alarm record mode】 There are two recording modes: Record video and Snapshot. Record means that when an alarm is triggered, the indoor monitor with the SD card automatically starts recording until the alarm ends or the user presses the hang up button to stop

manually. Capture is when the alarm is triggered, the indoor monitor with the SD card automatically captures the photo of the camera. The user can also manually press the Setting button to capture continuously.

【Motion detect switch】 Indicates whether to detect and record when an object moves in front of the device.

【Motion Detect Sensibility】 Indicates the sensitivity of motion detection. Including low, medium and high, low: indicates that the motion detection is difficult to trigger, medium: indicates that the motion detection is easier to trigger, and high: indicates that the motion detection is easy to trigger.

【Motion detect duration】 The recording time of motion detection can be set to 10s~300s, and the default is 20s.

【Signal mode】 There are three modes: Auto, PAL, and NTSC. When set to Auto, the indoor opportunity automatically detects the camera's system.

【Signal type】 There are seven signal types: CVBS, AHD720, AHD1080, TVI720, TVI1080, CVI720, and CVI1080. If the signal system is set to PAL or NTSC, these seven types can be selected and used together. If the signal system is set to Auto, the signal type is not selectable and is fixed to the Auto signal type.

3.7.2.4 Network Setting

Select "WiFi Set" enter "Network Set". Monitor connect to WiFi, once press door station, monitor and smart phone App will ring.

APP Download and Register

1. IOS: download "Tuya Smart" from Apple store
   Android: download "Tuya Smart" from Google play

2. Switch on "Tuya Smart" App start register, make sure have select country and region.
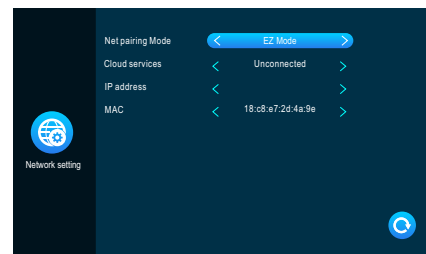
3. Login after finished register.

Note: WiFi setting must be used with "Tuya Smart" App.

Net pairing mode:

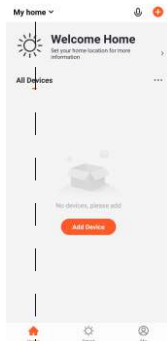Including three types connecting mode: EZ mode, AP mode and Cable.

EZ Mode Connection:

1. Enter indoor monitor: setting > network setting, select EZ mode, press back button, the indoor monitor will reboot and start EZ mode.
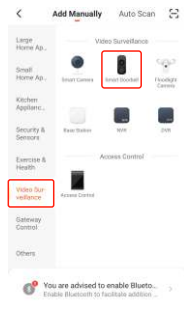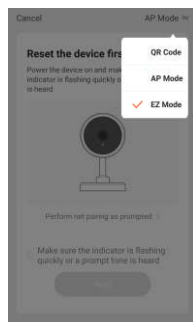

pic 11

2. Enter "TuyaSmart" App, press "Add device" (picture 12).

3. Press "Video Surveillance"-------"Smart Doorbell" or "Smart camera"enter the page (picture 13).

4. Press "Net Pairing Mode"-"EZ Mode"-----"Next" enter the page (picture 14).
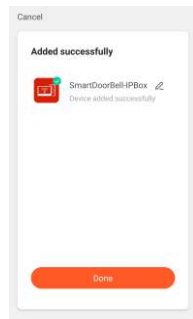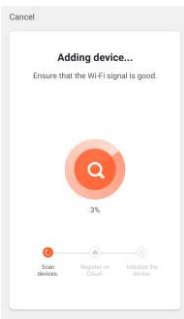

pic 12   pic 13   pic 14

5. Input WiFi name and password press confirm, enter the page (picture 15).

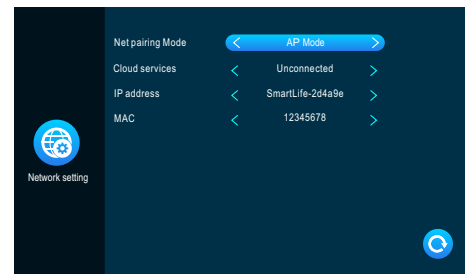6. Wait 100% means connect successfully, then can enter below interface (picture 16).
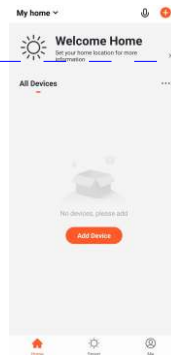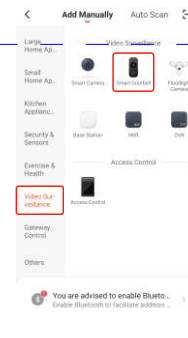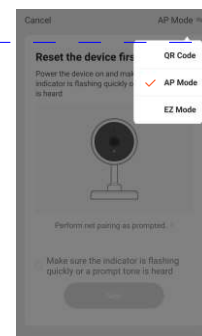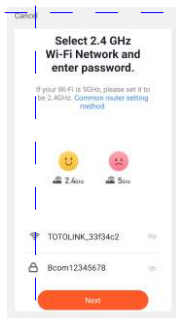

pic 15   pic 16

AP Mode Connection:

1. Enter indoor monitor: setting > network setting, select AP mode, press back button, the indoor monitor will reboot and start AP mode. It will create a hotspot named "SmartLife-xxxxxx".
For example: If MAC is 18:c8:e7:2d:4a:9e, the hotpot will be SmartLife-2d4a9e.

pic 17

2. Enter "TuyaSmart" App, press "Add device" (picture 18).

3. Press "Video Surveillance"-------"Smart Doorbell" or "Smart camera"enter the page (picture 19).

4. Press "Net Pairing Mode"-"AP Mode"-----"Next" enter the page (picture 20).

pic 18   pic 19   pic 20

5. Input WiFi name and password press confirm, enter the page (picture 21).

6. Press connect and enter smart phone WiFi setting page, find the hotspot name "SmartLife-xxxxxx", enter the page (picture 22).
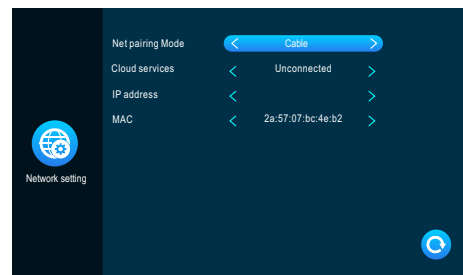
pic 21

pic 22

7. Wait 100% means connect successfully, then can enter below interface (picture 23).

pic 23

Cable Mode Connection:

1. Use a cat5 cable to connect indoor monitor to a router, and connect cellphone WiFi to this router.

2. Ener indoor monitor: (Click setting > network setting, select cable mode, press back button, the indoor monitor will reboot and start cable mode.
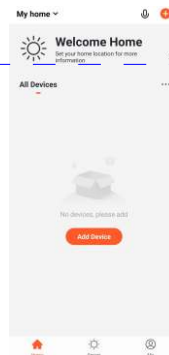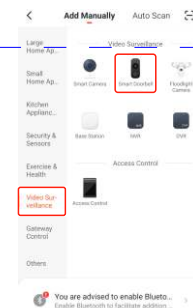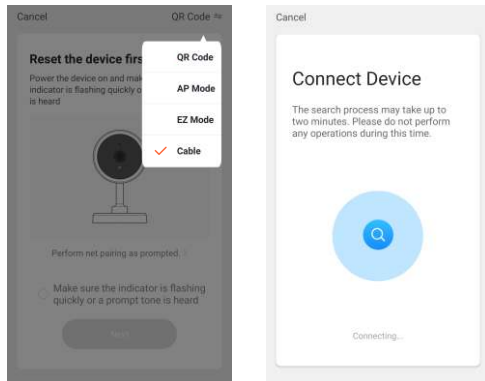

pic 24
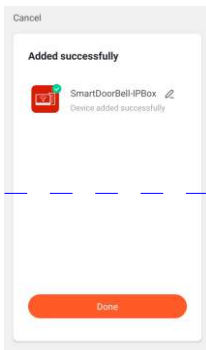
3. Enter "TuyaSmart" App, press "Add device" (picture 25).

4. Press "Video Surveillance"-------"Smart Doorbell" or "Smart camera"enter the page (picture 26).
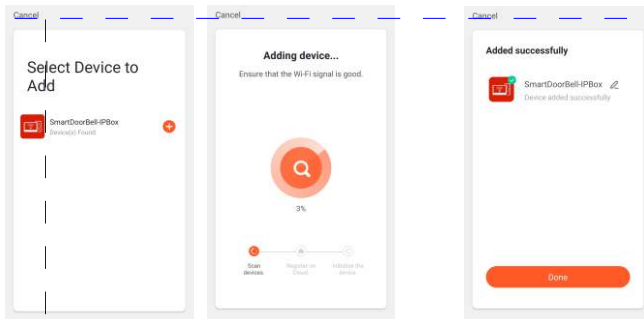

pic 25

pic 26

5. Press "Net Pairing Mode"-"Cable"-----"Next" enter the page (picture 27).

pic 27

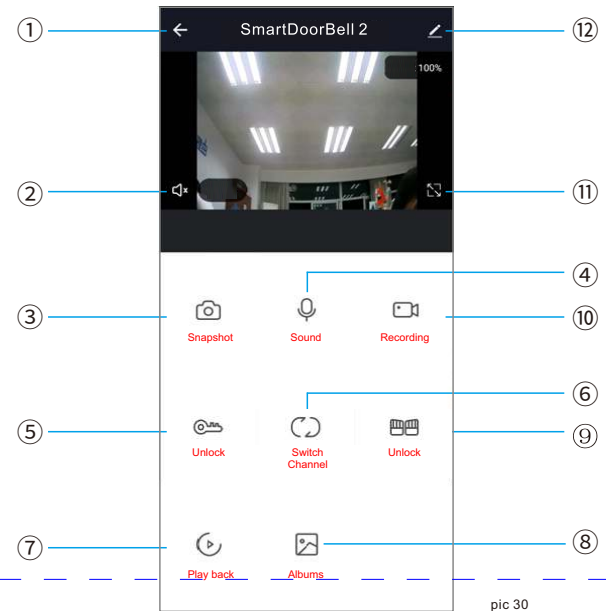6. Select the device which you want to add, enter the page (picture 28).
7. Wait 100% means connect successfully, then can enter below interface (picture 29).


pic 28   pic 29

APP GUI:

pic 30

① Hang up / Exit.

② Loudspeaker: active can heard sounds from door station.

③ Snapshot: During talking/monitoring mode, press the icon snapshot image(Android system smart phone save snapshot picture on App; IOS system smart phone save snapshot picture on mobile phone photo albums.

④ Microphone: Door station press call button, phone get message enter App, only press Mic button can talk with door station (Loudspeaker will switch on at the same time once press microphone)

⑤ Unlock: During talking/monitoring, press the button open the lock which connect in door station.

⑥ Switch camera image: During talking/monitoring, press the button view door1, door2, camera1, camera2.

⑦ Playback: Make sure monitor insert MicroSD card, and support playback calling/monitoring video record.

⑧ Photo albums: Android system smart phone save snapshot picture on App; IOS system smart phone save snapshot picture on mobile phone photo albums.

⑨ Gate unlock: During talking/monitoring, press the button open the lock which connect in monitor.

⑩ Video record: During talking/monitoring, press the button start video recording.

⑪ Full screen: Press the button display full screen.

⑫ Setting:
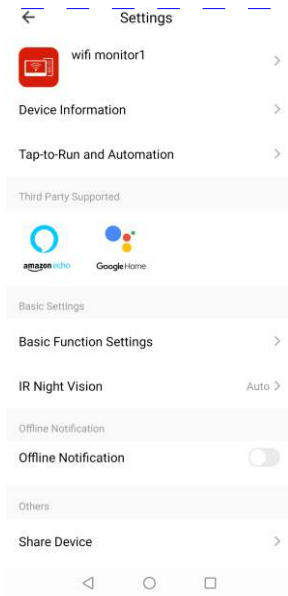
pic 31

A. Admin the equipment information and modify device name.
B. Display the third part which supports the apply.
C. Basic setting: Flip the screen and open or close time watermark.
D. Storage setting:
　①show the memory of SD card in monitor.
　②open or close video switch, choose the video mode.
　③Format SD card in monitor.
E. Switch offline remind.
F. Sharing device: support sharing device with other phone users.
G. Remove device: unbind the mobile with device.

Sharing with other phone user:

There are two ways to share your device to other phone users:

1. Enter App------All devices list-------press the device you want to share------press monitoring mode and press top right corner setting--------Share device-------Add sharing--------input region/ account and done. (notice: user App without unlock function, only Admin App with unlock function)
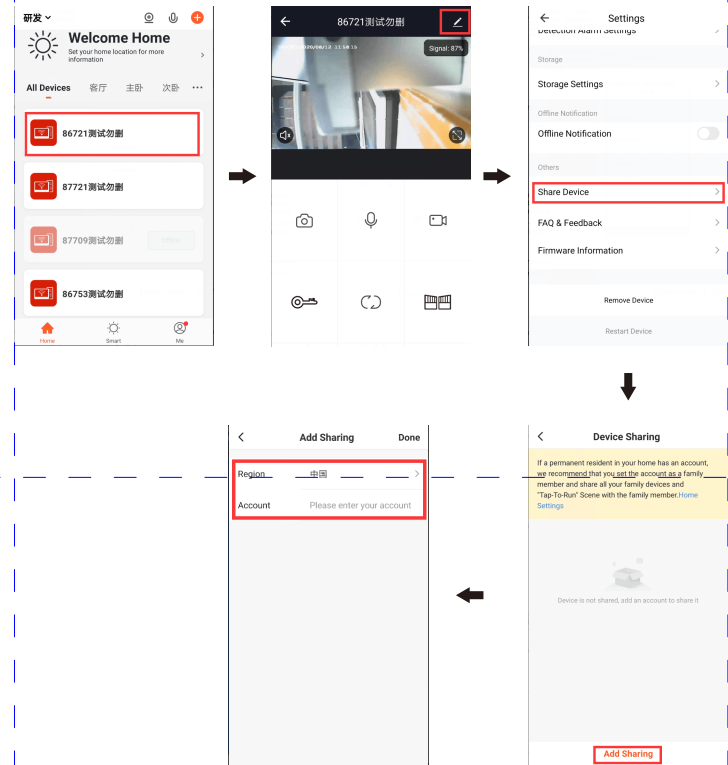
pic 32

2. Enter App------All devices list------Me-------Home Management-------Create a home------Enter home name-------Add member------App account--------input name/region/account and save
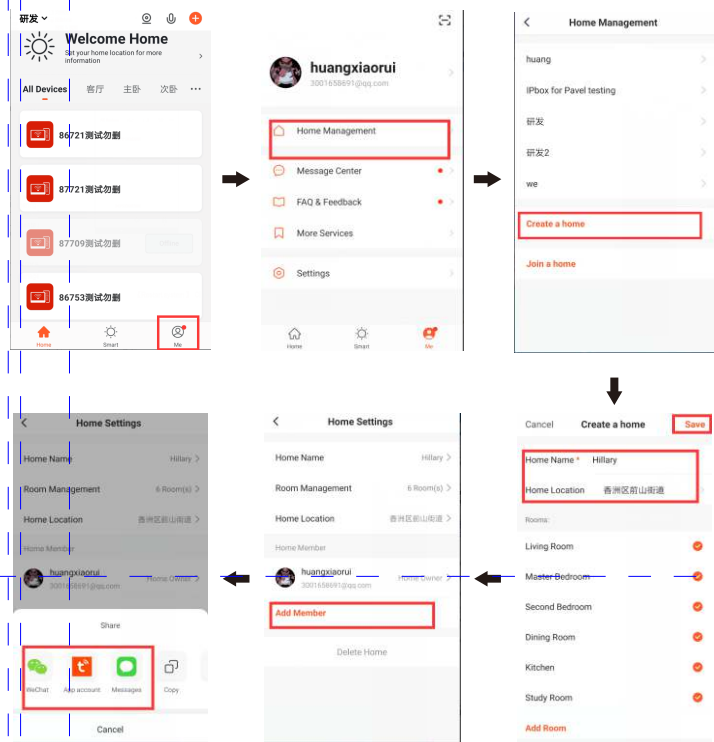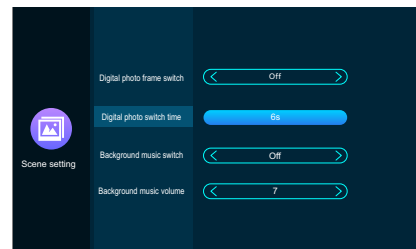

pic 33

NOTE:

a. All member in same device can get the message once visitor call from door station

b. Admin can add or move all members from App, Enter "Me"-------Home Management-------remove member as you want

## 3.7.2.5 Scene Setting

pic 34

【Digital photo frame switch】 Indicate whether to open the digital photo frame. After the digital photo frame is turned on, the indoor unit will play the picture in the SD card after returning to the standby mode (only for models with SD card, user need to put the picture file in the "Digital Frame" folder in the SD card).

【Digital photo frame time】 Indicates the time when the indoor unit is in the digital photo frame state, how long a picture is played.

【Background music switch】 Indicates whether background music is on in standby mode. The background music can be played when the background music switch is turned on and the indoor unit needs to insert an SD card. (Only for models with SD card, user needs to put MP 3 music files in the "BgMusic", folder in the SD card)

【Background music volume】 Indicates the volume of the background music, the volume range is 1-10
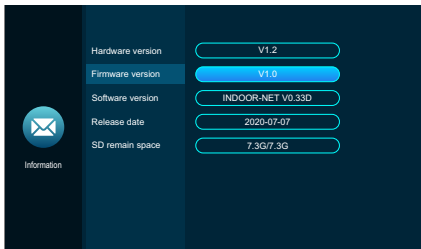
3.7.2.6 Senior Setting
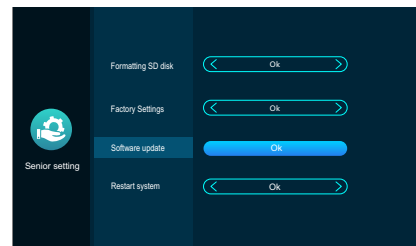
pic 35

【Formatting SD disk】 Click "ok", the SD card will be formatted. If there is no SD card in monitor, it will prompt "no SD card".

【Factory setting】 Click "ok",the indoor monitor will reboot.

【Software update】 If there is "update.ius" in SD card, click "ok", monitor will update, if update successfully, "success" will display on monitor and the monitor will restart, if monitor fails to update, failure will display on monitor. When there is no update software in SD card or there is no SD card in monitor, click "OK", it will prompt no update software.

【Restart system 】 Click "OK"to restart indoor monitor.

3.7.2.7 Information

Hardware version	V1.2
Firmware version	V1.0
Software version	INDOOR-NET V0.33D
Release date	2020-07-07
SD remain space	7.3G/7.3G

Information

pic 36

【Hardware version】 Display current hardware version.

【Firmware version】 Display current MCU version.

【Software version】 Display current software version.

【Release date】 Display the date the current software released.

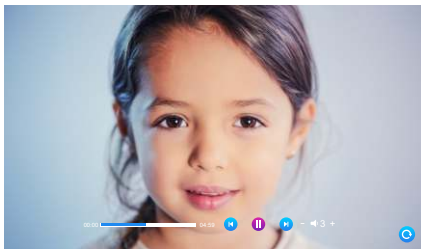【SD remain space】 Shows the free space and total space of current SD card.

3.7.3 Media

Movie   Music
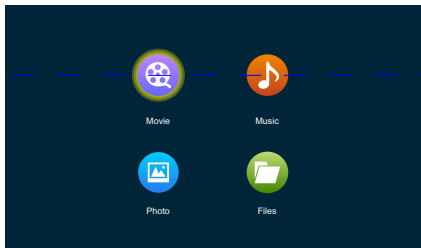
Photo   Files

pic 37

Media interface includes movie, music, photo, files.

3.7.3.1 Movie

pic 38

In media interface, click movie menu, then the movie file list will display on monitor. When the movie is playing, users can drag progress bar to move forward or backward. The volume range from 0 to 10,the default is 07.

NOTE:

(1). Save the video in the root of SD card.

(2). If visitors call the indoor monitor or trigger an alarm during the play, the play will stop and switch to the image of the outdoor station or camera.

(3). Movie playing is a list of loop play; If there is only one movie, the same movie will be shown over and over again.

### 3.7.3.2 Music

xiaoxingyun_ring.mp3
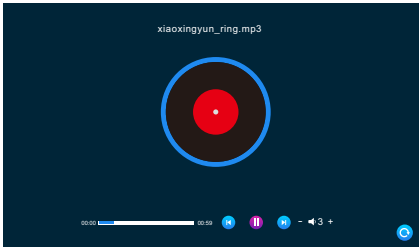
pic 39

In the media interface, click the music menu to see the list of music files, and click the music file to play. On the playing interface, you can perform operations such as "last track" , "pause", "next track", "increase or decrease the playing volume" and "return".

(1). While playing music, drag the progress bar to move forward or backward.

(2). Click the add or subtract button to adjust the volume. The volume range is 0-10, and the default is 07.

(3). To be found and displayed, you need to put the MP3 music file into the "BgMusic" folder on this SD card.

(4). If visitors call the indoor monitor or trigger an alarm during the play, the play will stop and switch to the screen of the door machine or camera.

3.7.3.3 Photo
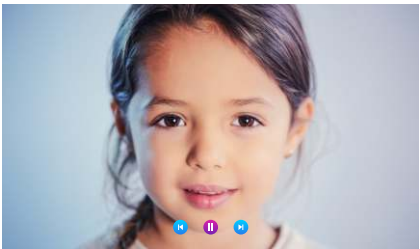
pic 40

In the media interface, click the photo menu to see the list of photo files.

(1). The next photo is automatically played when the photo is played, unless it is paused.

(2). To be found and displayed, a photo file needs to be placed in the "DigitalFrame" folder on SD card.

3.7.3.4 Files

In the media interface, click the Files menu to see the SD card folder. Enter the SD card to see the automatically created folder. Folders automatically created are "DigitalFrame" folder, "BgMusic" folder, "Ring" folder, "MessageImport" folder, and "DOORBELL" folder(This folder is hidden in the indoor monitor and can only be seen if the SD card is plugged into the computer.

【"DigitalFrame" folder】Save the picture of the digital photo frame

【"BgMusic" folder】Store background music files for indoor units.

【"Ring" folder】 Store user defined ringtone files for indoor units.

【"MessageImport" folder】The message customization function allows the user to set the user defined leave message alert tone.

1. Store the recorded voice file in this folder.
2. In the file manager, find and click the file, and then automatically import it to flash to replace the default message alert tone.

Note: The voice file request is in mp3 format, and the file size is up to 2M.

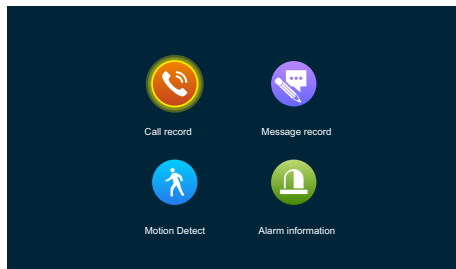【"ALARM" folder】Store the records after the indoor unit triggers the alarm.
【"CALL" folder】Store the call history of the indoor unit and the outdoor station.
【"MD" folder】Store the motion detection record of outdoor station.
【"MSG" folder】Store the message record of the indoor unit

All the records of the above four folders can be seen in the event menu.

3.7.3.5 Event

pic 39

In this interface, you can see the Call record, Message record, Motion detection record and Alarm information record respectively, and you can also see the record type, time, device, and whether it has been read.

Call record:

1. Automatic snapshot or recorded video when any outdoor unit calls.
2. Any outdoor station call or under calling, manually captured the picture or recorded video.

Message record:

When the message switch is turned on, the video is automatically recorded from the beginning of the call when the call is not answered.

Motion detection record:

1. Automatically captured pictures or record when motion detection occurs on all outdoor station and cameras.
2. Manually captured pictures or video recorded in the motion detection process of all outdoor station and cameras.

Alarm information record:

1. Automatically capture pictures or recorded videos when Camera alarms.
2. Manually captured pictures or recorded videos during Camera alarm.

Note: After selecting the record, long press will display the open, delete, delete all, and close. In the record list, click the previous or next page to turn the page.

3.7.4 At home, Not at home, Sleep mode

1). At home mode: normal working mode.
2). Not at home mode: The visitor enters the message mode directly after making a call.
3). No disturb mode: In normal working mode, there is no ringing tone and prompt tone when calling.

3.7.5 Unlock/lock

Open the lock connecting to the indoor unit

3.7.6 Standby

Return to standby page.

3.8 Picture parameter setting

After the outdoor station calls, select the image settings in the indoor monitor. The image setting parameters include: call volume, brightness, contrast, and saturation. Click the add or subtract keys on the left and right sides of any parameter to adjust the size of the parameter.

Note: color parameter can be setted in monitoring, calling, calling, alarm, motion detection and other images.

DOOR1 2020/01/01 00:07:14
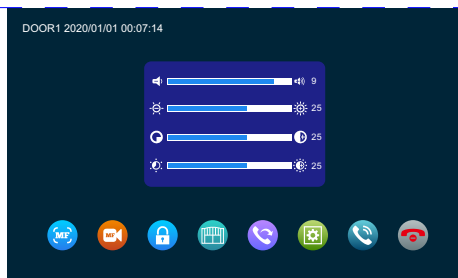
pic 41

【Intercom volume】 The value can be set from 0 to 10, the default is 07

【brightness】 The value can be set from 0 to 50, default value is 25.

【contrast】 The value can be set from 0 to 50, the default is 25.

【saturation】 The value can be set from 0 to 50, the default is 25.

4. ALARM INSTRUCTION

1. The final public terminal is shorted to ground to activate the alarm, and indoor monitor speaker rings. During this period, press ☎ to stop alarming and enter standby mode.

2. When in recording mode, 120s continuously display and record the image. During this period, press ☎ to stop alarm and enter standby mode.

3. When in snapshot mode, a photo is taken at the beginning of alarm, and the image is continuously displayed within 120s. During this period, press ☎ to stop the alarm and enter standby mode.

Alarm Sensor Wiring Diagram:

1. Suitable for connecting two normally closed (NC) or normally open (NO) alarm inputs. 2 alarm input channels without input limitation (can be normally open or normally closed).
2. The ALM terminal of alarm sensor is connected to ALM terminal of indoor monitor (the alarm sensor is powered by external power supply).
3. Alarm sensor GND terminal is connected to camera GND.
4. For NO alarm input, when GND and ALM are connected, the alarm will be triggered.
5. For NC alarm input, when GND and ALM are off, the alarm will be triggered.
6. Suitable for any alarm sensor.

# 5. INDOOR MONITOR INSTALLATION

⚠ **Note:**

- Please stay away from strong radiation equipment: TV, DVR, etc.
- Please do not disassemble without permission to avoid electric shock.
- Do not drop, shake or strike the device, otherwise the components will be damaged.
- Select the best position for installation, and the distance from the horizontal view is 150cm.
- Please shut down before installation.
- Keep a distance of more than 30 cm from the AC power source to avoid interference.
- Keep away from water, magnetic fields and chemicals. Please turn off the power before installation.


150-160cm
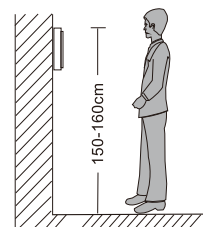
How to install indoor monitor

cables

plastic   stent
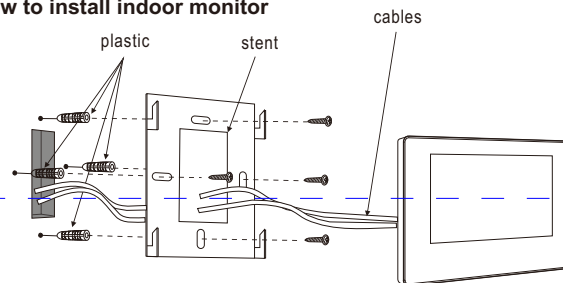
SPECIFICATIONS

Product Type	AHD 720P/960P/1080P/CVBS, CVI, TVI Video Input
Screen	7"/10" TFT LCD touch screen
Resolution	1024*600
Standard	PAL/NTSC
Intercom Mode	Two-way intercom, cloud intercom
Power Consumption	1200mA max
Power supply	External power DC; Built-in power AC100-240V
Operating Temp	0~+50℃
Installation	Surface mount
SD Card Max Capacity	2GB~128GB class 10 TF card(micro SD card) Note: Read and write speed ≥Class10
Video Input Signal	CVBS, CVI, TVI, AHD, 1080P
Motion Detection	One channel only
System Capacity	6 indoor monitors + 2 door stations + 2 cameras
Functions	Unlock/Monitor/Intercom/Transfer Call/Record
Advantages	Digital Photo Frame/MP3/Clock and Voice Message/Background Music /Message prompt tone custom

ACCESSORIES
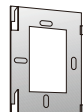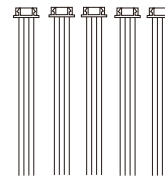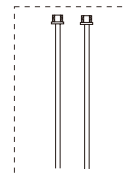
Indoor Monitor

- Indoor Monitor -- 1pcs
- Plastic Anchor -- 4pcs
- Screws --- 4pcs
- Bracket -- 1pcs
- 4 Pin wire --- 8pcs
- 3 Pin wire --- 1pcs
- 2 Pin wire --- 2pcs
- Operating Anual --- 1pcs
- External Power Supply (optional) --- 1pcs

* If indoor monitor has a built-in power supply, there is no external power supply in the picture above.