

# 2 WIRE HOME Wi-Fi MONITOR

## EWS-MT471-W

7" COLOR TFT Wi-Fi MONITOR



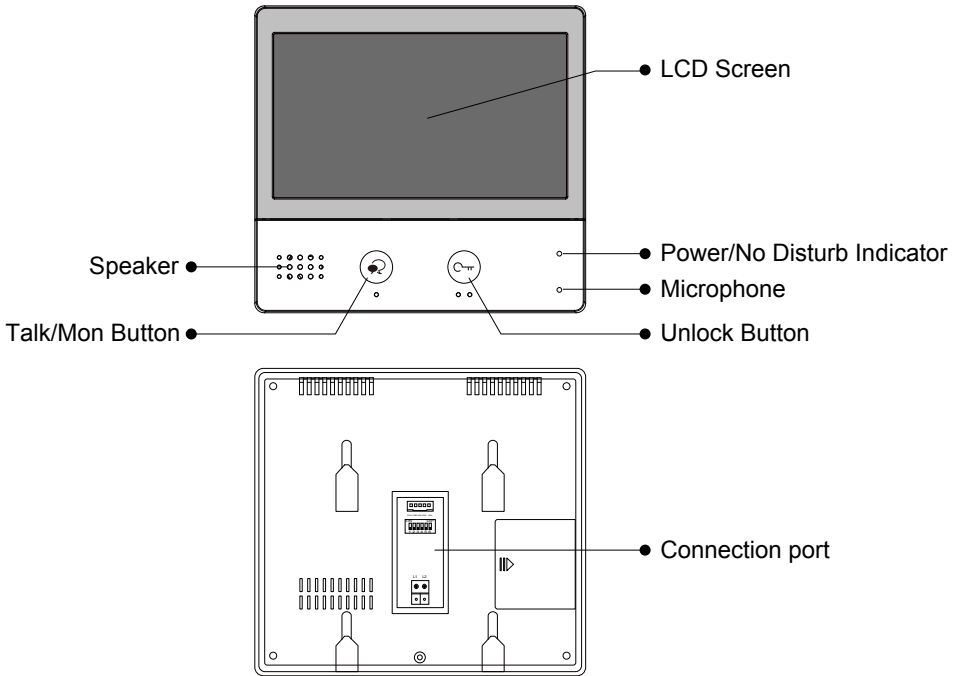
- Please read this manual carefully before using the product you purchase.
- Please note that images and diagrams in this manual may be different from the actual product.

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# 1. Parts and Functions



## Key functions

Speaker	Send out voice from the visitor.
Talk/Mon button	Press to communicate hands free with visitor; Press to view the outdoor condition in standby mode.
LCD screen	Display the visitors' image.
Power/No Disturb indicator	Show the power status of the system. Show the no disturb status.
Microphone	Transmit audio from one station to other stations.
Unlock button	Press to release the door.
Connection port	Bus terminal, Setting the monitor's address.

## Terminal description

**SW+,SW-:** Extra door bell call button connection port.

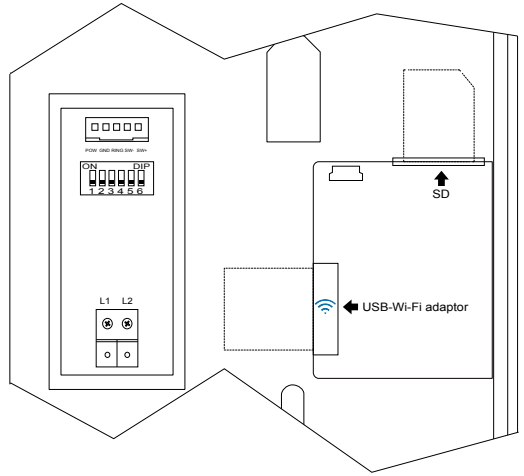
**Ring,GND:** Extra buzzer connection port.

**POW,GND:** 12~16V extra power connection port.

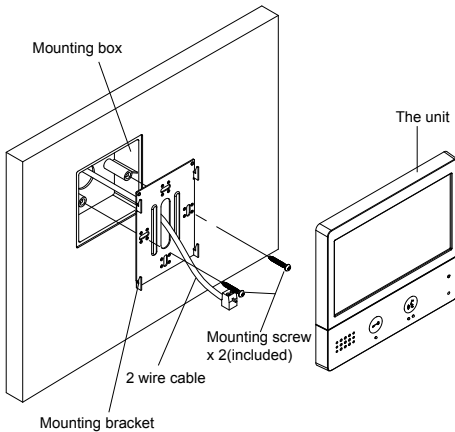
**DIP switches:** Total 6 bits can be configured.

- **Bit1~Bit5:** User Code setting switch.
- **Bit6:** Video impedance matching switch.

**L1,L2:** Bus line terminal.



## 2. Mounting



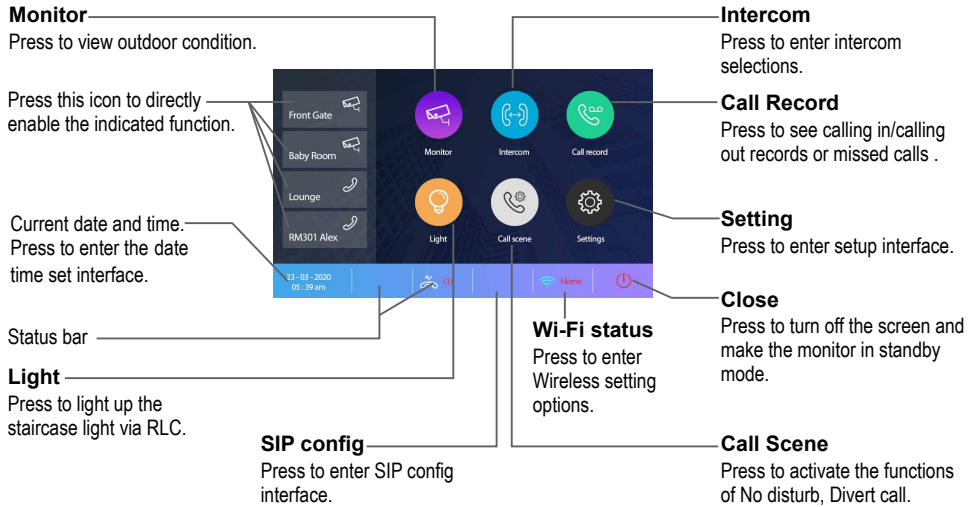
The installation height is suggested to 145~160cm.

1. Use screws to fasten the mounting bracket to the wall with mounting box.
2. Connect the 2 wire cables to the unit.
3. Mount the unit to the mounting bracket, make sure the unit is absolutely attached to the mounting bracket.

### 3. Main Menu




The Main menu is your starting point for using all the applications on your monitor.

Press **Unlock** button, or press anywhere of the screen on monitor in standby mode, the Main menu will appear as follow:

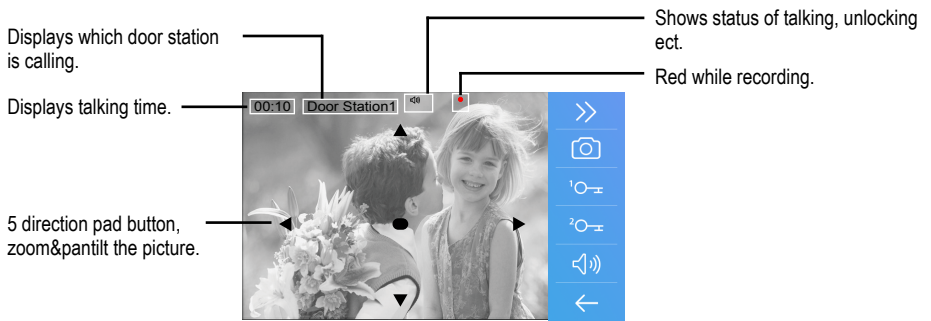


### Function status

Icon	Meaning	Description
	Missed call	Display when there is missed call unread. Press to review the missed call in shortcut.
	No disturb	Display when activate the function
	Call transfer	Press to enter Call Scene interface in shortcut.
	SIP server connection active and configured	Press to enter SIP server information interface in shortcut.
	SIP server connection disabled	
	SIP server connection active and not connected	

Icon	Meaning	Description
	Wi-Fi connection active and not connected	Press to enter Wi-Fi setting interface in shortcut.
	Wi-Fi connection disabled	
	Wi-Fi connection active and configured	

## While talking with a door station



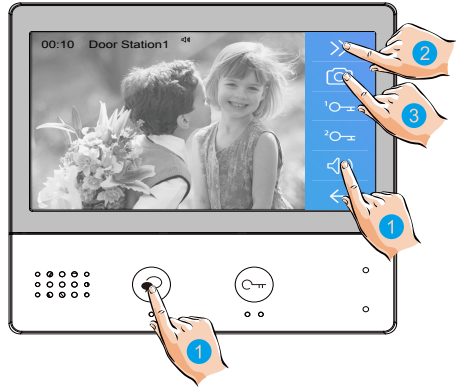
**Note:** The 5 direction pad operation should make effective with **fish-eye** door station.

# 4. Answering a Call

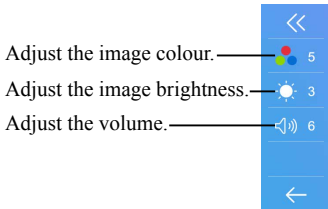
1. Press to answer the call. To end the call Press again.

2. If necessary, during the call Press to display the audio/video adjustment icons.

3. Press to record image/video.

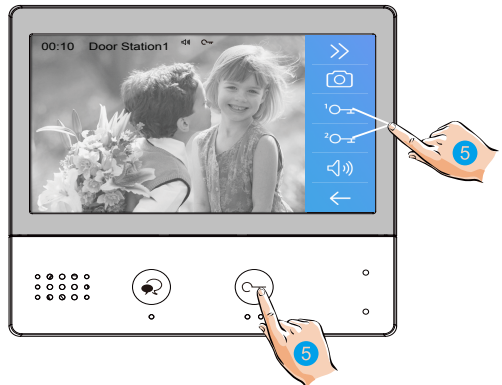


4. Press the icons to adjust the parameters you want.



5. Press to open the door lock for visitor.

The door lock key display on screen briefly, to indicate that the door lock has been released.



## 5. Panview & Zoom

If wants to see greater detail about visitors,move to the desired position by Pressing ▲ ▼ ● ◀ ▶ on the screen to view the image in pantilt & zoom mode.

1. Press to activate the panview and zoom function.



## 6. Monitoring

Note: IP camera is not included.

This section can be used to monitor your home by enabling one of the cameras inside the apartment, the common areas (e.g. garages, garden), and at the entrance.

1. Press to display the cameras in your system.





2. Press to activate the desired camera on Monitor interface.

3. It is possible to “>” (display in sequence) the other cameras.

4. Press to return the previous menu.



5. Press to activate the specified camera in shortcut.



The display shows the images recorded by the active camera.

6. If the camera belongs to an Door Station, Press to activate audio communication.

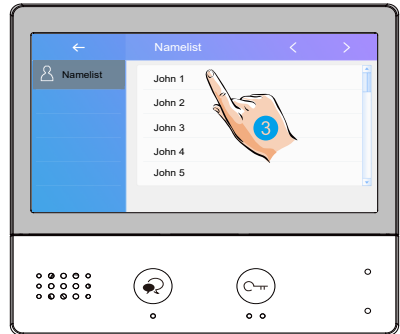
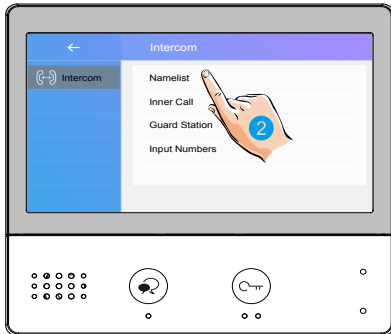
Press again to return the Monitor interface.



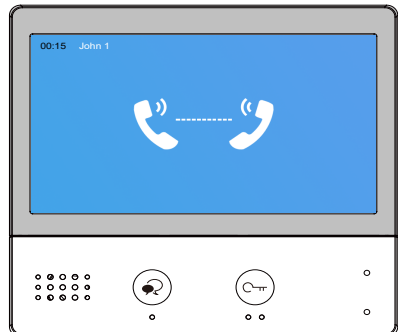
# 7. Call Another Room or Apartment (Intercom)

It is possible to communicate with another device installed in another room of the apartment or with a device of another apartment.

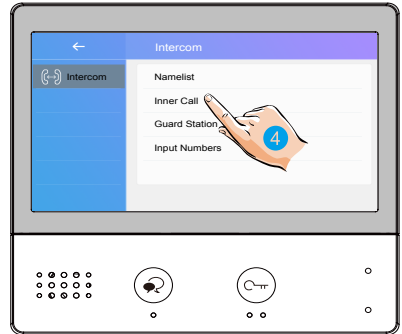
1. Press to display the available intercoms.
2. Press to display the available namelist calls.
3. Press to activate the communication with the desired intercom.



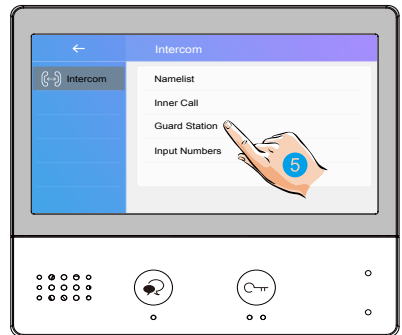
the call is active.



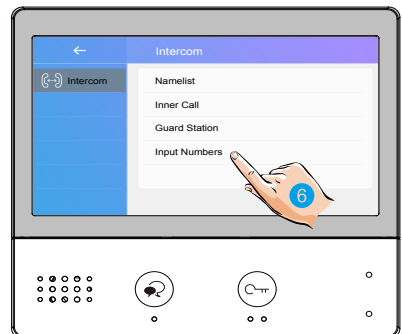
4. Press to activate the communication with another room.



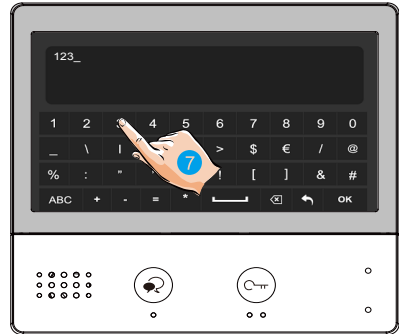
5. Press to activate the communication with guard station.



6. If the system does not have the room number you want, you can enter other room number. Press to enter input numbers interface.



7. Input the room numbers you want.



Note: when a call is received from the Door Station while the internal unit is in “intercom” mode, the system follows the priority rules and ends the active call.

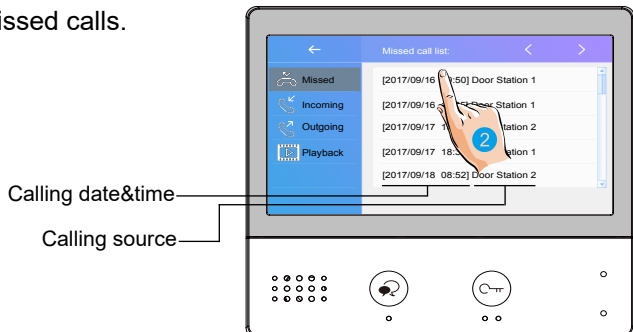
## 8. View Call Record

When there are one or more unread call records in the answering machine, press the icon shows them.



1. Press to enter call record interface and display the records. These records include missed calls, incoming calls, outgoing calls and playback.

2. Press to show the missed calls.



The informations you select is played back automatically.

3. Press to scroll interface.

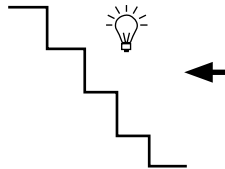
4. Press to delete the image.



## 9. Switching lights(Optional) RLC not included

**Note:** The staircase light should be connected on the system, and this function should be supported by RLC. Please refer to RLC user instruction in detail.

1. Press to switch on the staircase light.



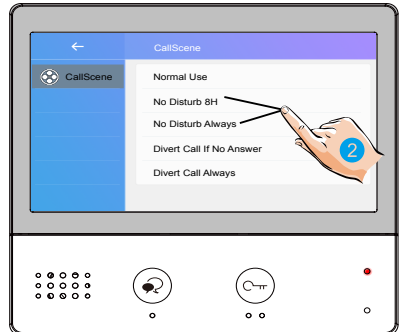
# 10. No Disturb Function

If you don't want to be disturbed, for example, at night. Activating the mute function is necessary for you.

1. Press to enter call scene interface.



2. Press to set the no disturb mode: No Disturb 8H and No Disturb Always.



**No Disturb 8H:** The calling from door station or other monitors will be forbidden for 8 hours.

**No Disturb Always:** The calling from door station or other monitors will be forbidden all the time until the function is released.

Note:

\* The no disturb indicator turns from green to red, to indicate that the no disturb function has been activated.

\* This function will perform immediately if selected, and the status bar on main menu interface will show "🔕" icon.

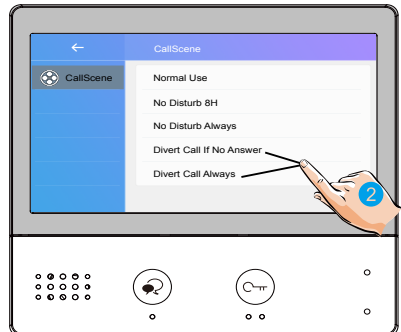
# 11. Divert Call

The calling from door station can be diverted to your phone. please note that this function should be supported by Wi-Fi or SIP network.

1. Press to enter call scene interface.



2. Press to set the divert call mode: Divert Call If No Answer and Divert Call Always.



**Divert Call If No Answer:** If call is not answered within 30 seconds, the monitor will divert to your smart phone. In this mode, the monitor will display image from door station during the diversion, if you answer the call via monitor while in diversion this will cancel the diversion instantly.

**Divert Call Always:** In this mode, the call from door station will instantly divert to smart phone, the monitor will not display any images.

Note:

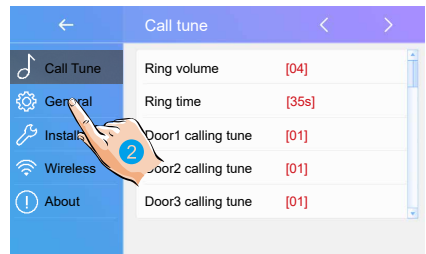
\* If divert the call to smart phone via Sip sever, need to choose one.

\* This function will perform immediately if selected, and the status bar on main menu interface will show "📞" icon.






# 12. Setting

## Enter setting interface

1. Press to enter setting interface.



2. Press the icon for the desired customisation, choosing among:

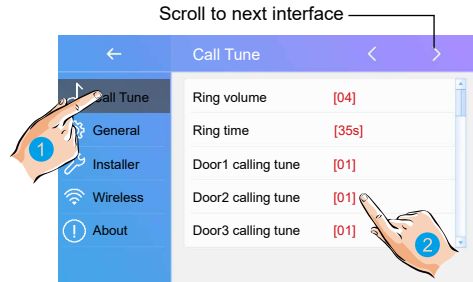
 Call Tune >	Ring volume - Ring time - Door1/2/3/4 calling tune - Doorbell calling tune -Intercom calling tune -InnerCall calling tune -GuardCall calling tune
 General >	Date and time -Language -Monitor time -Shortcut setting -SD card - Screen on in divert - Restore to default
 Installer >	Current address -Intercom enable - IPC Setting - Monitor light manage - System setting - FW upgrade - Unlock time - Unlock mode - Auto reboot - Reboot
 Wireless >	Wi-Fi switch -Wlan setting -Wireless device regist - SIP config - SIP tools
 About >	All kinds of device information



## Ring tone setting

The ring call tone can be set individually to distinguish different calling sources. Total 22 tones can be selected.

1. Press to enter call tune setting interface.
2. Press the setting item to select the call tone.



**Ring volume:** adjust the ringtone volume.

**Ring time:** adjust the ringtone time.

**Door1/2/3/4 calling tune:** call tone from door1/2/3/4 entrance panel.

**DoorBell calling tune:** call tone from doorbell.

**Intercom calling tune:** call tone from an intercom of another apartment.

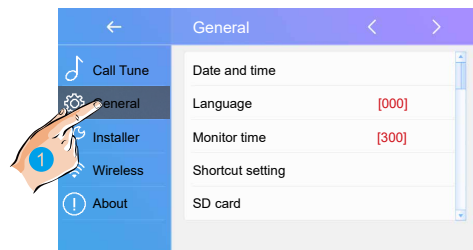
**InnerCall calling tune:** call tone from an intercom in your apartment.

**GuardCall calling tune:** call tone from the Gurad unit.

## General setting

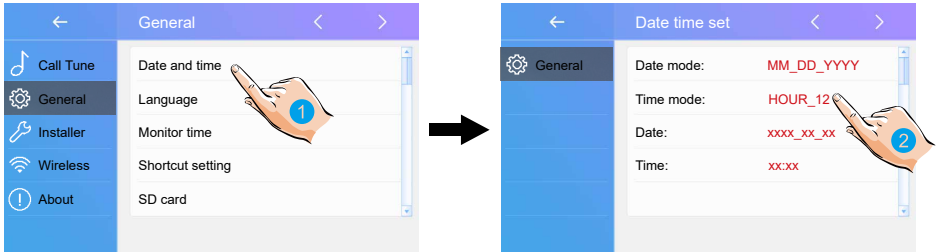
This section contains the general settings and device information.

1. Press to enter general setting interface.



## Date and time setting

The current date and time can be modified at any time.



1. Press to enter the date time set interface.
2. Press to select the item you want to change.

**Date mode:** 2 display mode: month/date/year and date/month/year

**Time mode:** 2 display mode: HOUR\_12 and HOUR\_24.

**Date:** Press to set the date .

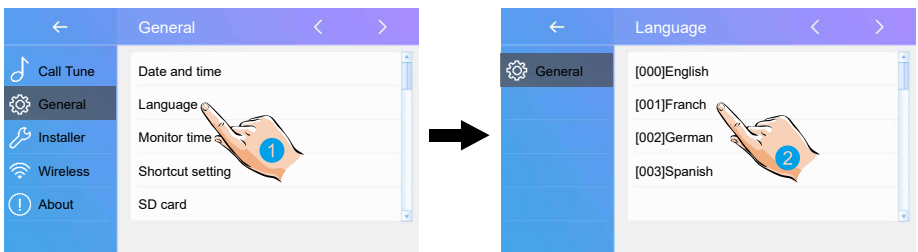
**Time:** Press to set the time.

**Time zone:** Press to set the time zone in your country.

**Time auto update:** **Disable:** should set the time manually. **Enable:** can synchronize the system time

## Changing the display language

The default language can be customized. But you can change it to your desire language at any time.



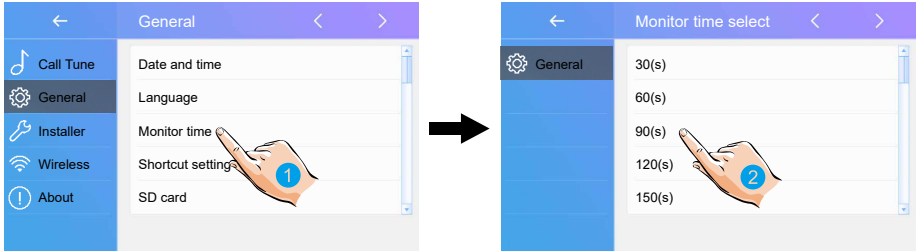
1. Press to enter the language interface.
2. Select the target language, and then press to confirm.

\*If the target language is not found in the window, press > icon to scroll next interface.

## Setting monitor time

The monitor time can be changed at any time. It's available to set 30s, 60s, 90s, 120s, 150s, 180s, 210s, 240s, 270s, 300s.

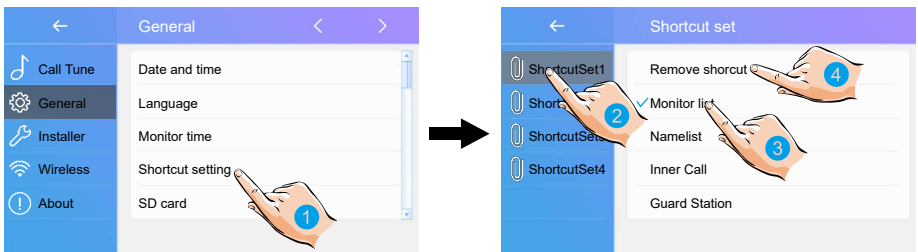
\* 30s is the default monitor time.



1. Press to enter the monitor time select interface.
2. Select the monitor time you want, and then press to confirm.

## Shortcut setting

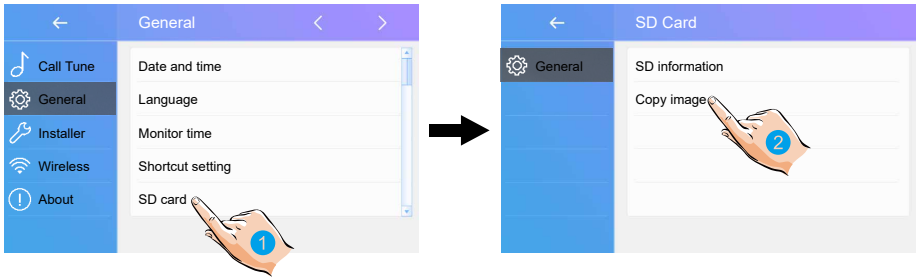
In this section it is possible to select the 4 quick actions that will appear on the home interface.



1. Press to enter the shortcut set interface.
2. Select the shortcut set item you want.
3. Select the type of function for which you want to add a quick action.
4. Remove the quick action from the home interface.

## SD card

If the device insert an SD card, the SD card info can be reviewed on the device.



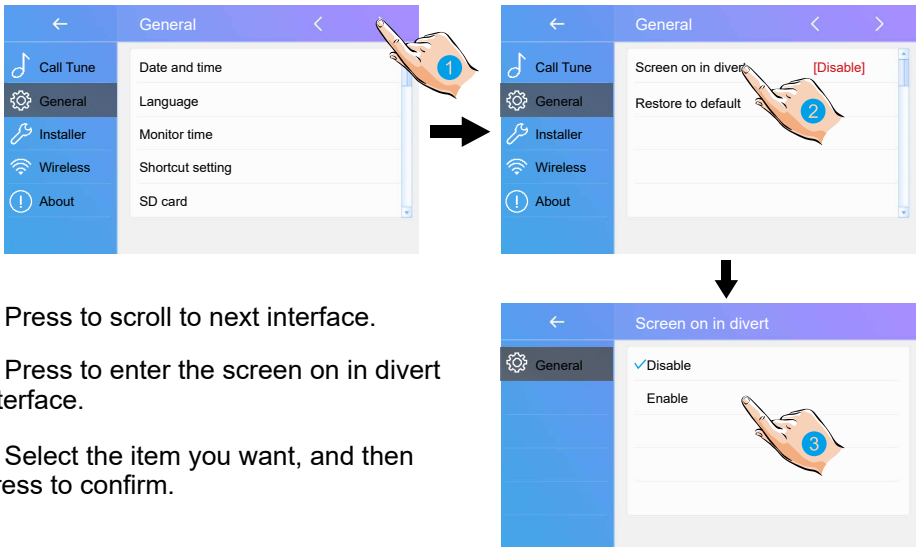
1. Press to enter the SD card interface.
2. Select the item you want, and then press to confirm.

**SD information:**SD card capacity.

**Copy image:** Press to copy the recorded images to SD Card.

## Screen on in divert

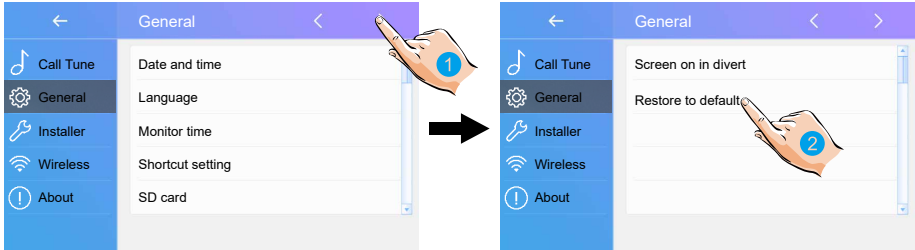
When the monitors set to "Divert call always" mode, in default mode, when receive a calling, the monitors' can not display the image. But the settings can be changed,you can set the monitors to panel on at the same time when divert a call.



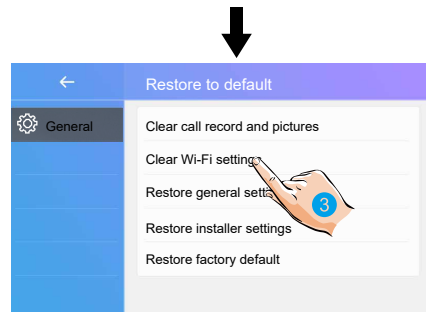
1. Press to scroll to next interface.
2. Press to enter the screen on in divert interface.
3. Select the item you want, and then Press to confirm.

## Restoring to default setting

The restore to default function allows the user to recover the settings to factory setting.



1. Press to scroll to next interface.
2. Press to enter the restore to default interface.
3. Select the item you want, and then Press to confirm.

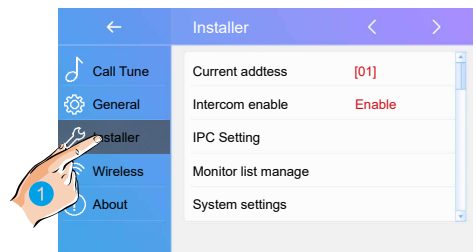


Notes: It has five items: Clear call record and pictures, Clear Wi-Fi settings, Restore general settings, Restore installer settings, Restore factory default.

## Installer setting

This section contains the device address setting and system settings.

1. Press to enter installer setting interface.

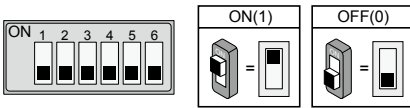


## DIP Switcher Set Address

The DIP switches are used to set the user code for each monitor. Total 6 bits can be configured.

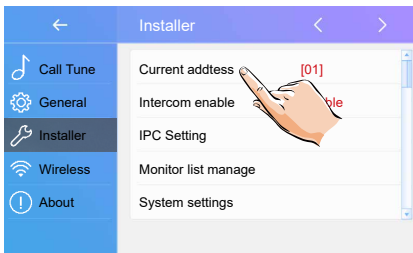
- Bit-1 to Bit-5 are used for user code setting. The value range is from 0 to 31, which have 32 different codes for 32 apartments.
- When multi monitors need to be installed in one apartment, these monitors should use the same user code, and the master/slave mode should be set on the monitor. (Details refer to the section of **Setting Slave Monitor**)
- Bit-6 is bus line terminal switch, which should be set to “ON” if the monitor is at the end of bus line, otherwise be set to “OFF”.

### Bit-6 switch setting



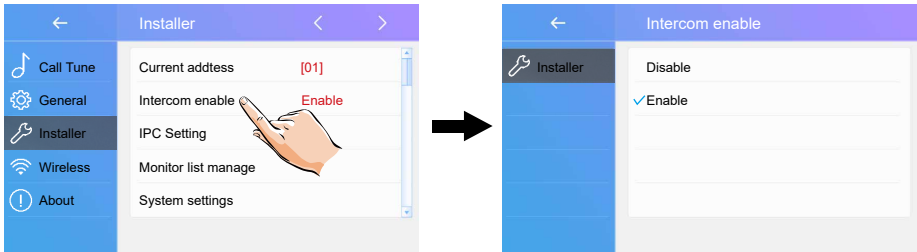
Bit state	Setting	Bit state	Setting
	When monitor is not at the end of bus line.		When monitor is at the end of bus line.

This monitor is assigned with DIP setting instructions. Total 32 DIP codes.



## Enabling/Disabling intercom function

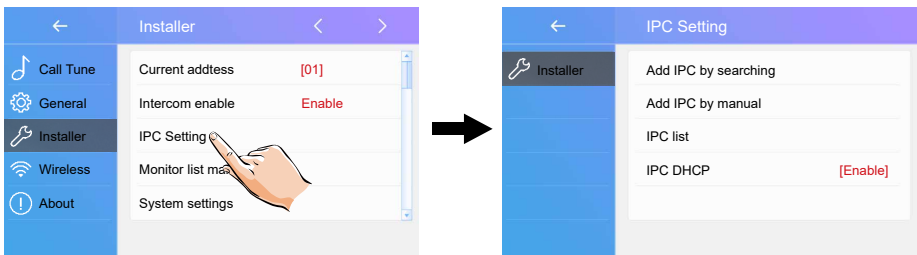
It's available to forbid or activate the intercom function.



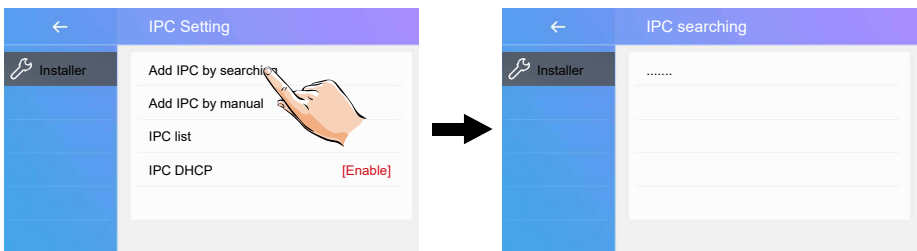
\*In default setting, intercom function is enable for the monitor.

## Adding external IP Cameras H.264 IP Cameras set to 640x480

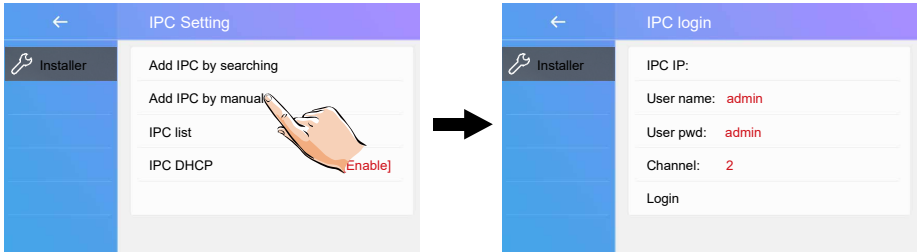
Display IP Cameras that are on the same network.



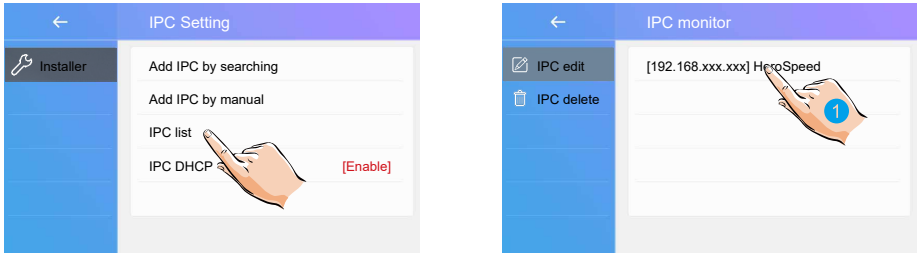
**Add IPC by searching:** Add the IP camera by searching online.



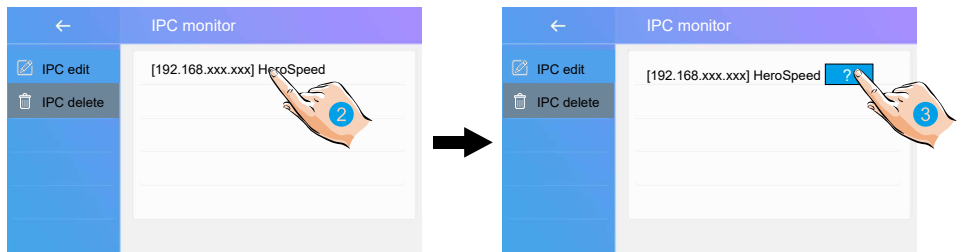
**Add IPC by manual:** Add the IP camera by manual.



**IPC list:** IP camera list.



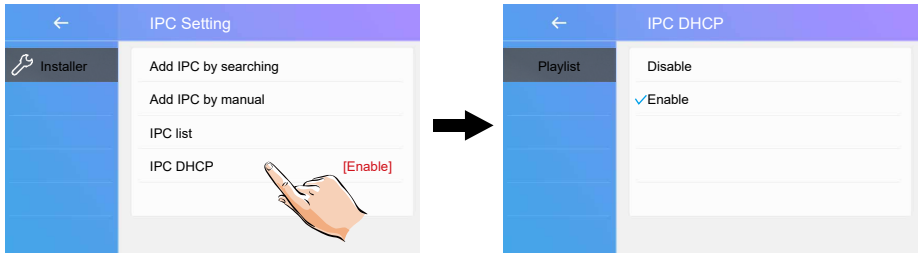
1. Press to edit the IP camera's name.



2. Press to enter delete the IP camera status.  
3. Press to delete the IP camera.



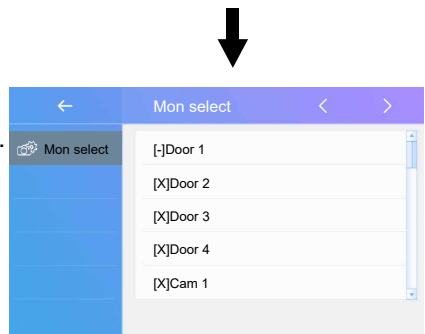
## IPC DHCP: forbid or activate the IPC DHCP.



## Monitor list manage



[X] means the function is available;  
[-] means the function is off and unavailable.

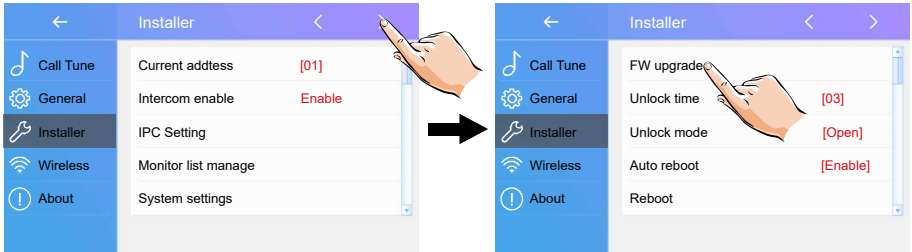


## System setting

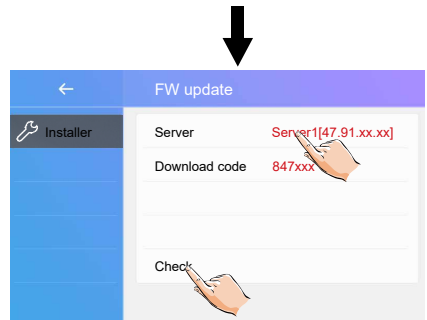
This section will be reserve.

# Software upgrade

Upgrade the device software online/SD card.

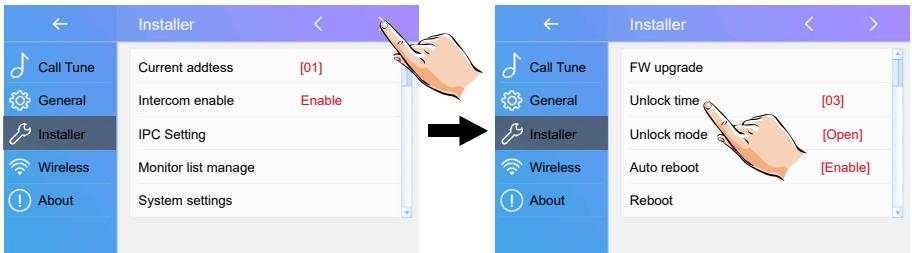


In the FW update interface, users can select the Servers/SD card to upgrade. Then Press "Check" to activate it.

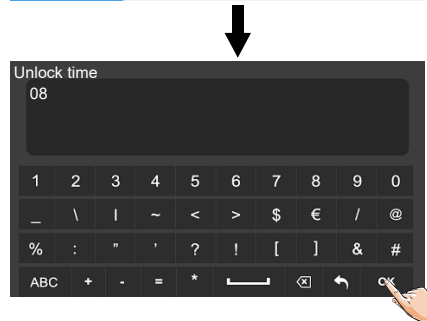


# Unlock time setting

Set the unlock time.

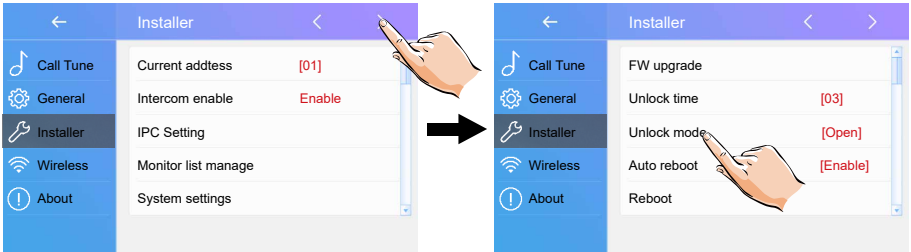


The unlock time can be changed by yourself at any time. it can be set from 01 to 99 seconds.



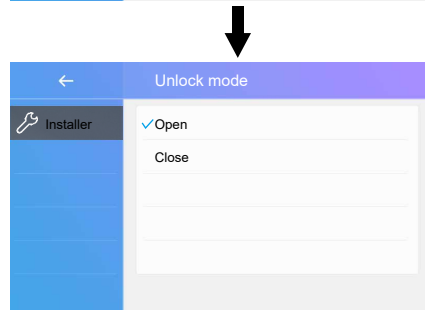
# Unlock mode setting

Set the unlock mode.



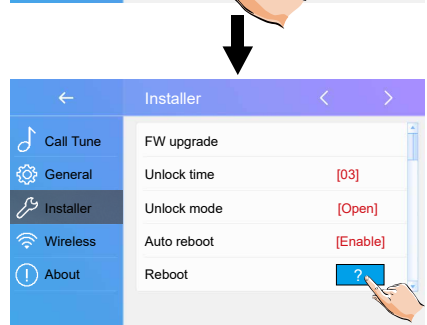
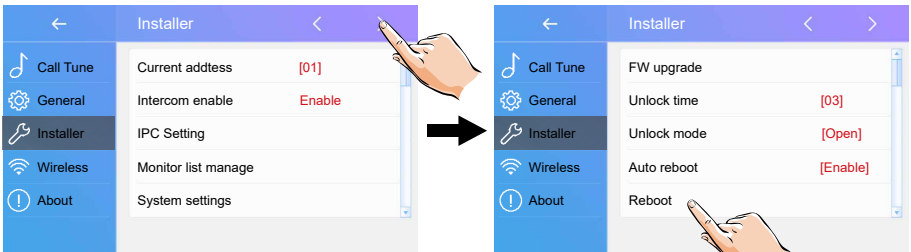
There are two unlock modes:

- 1.Fail Safe Mode 12 Volts DC applied to unlock = Open
- 2.Fail Secure Mode 12 Volts DC removed to unlock = Close

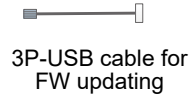
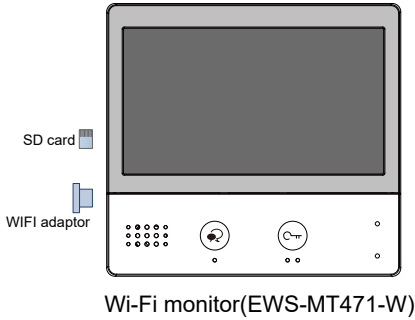


# Reboot

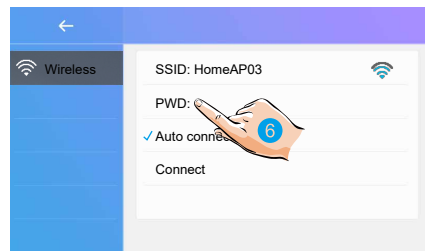
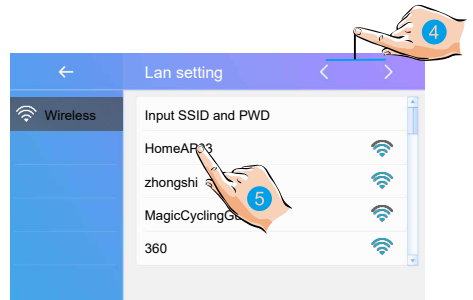
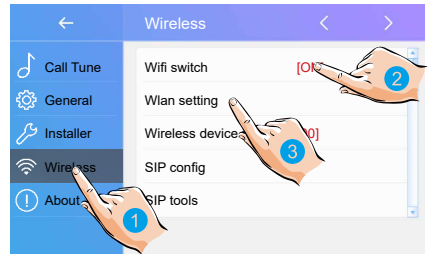
Auto reboot ,or Reboot the device.



# Wireless setting

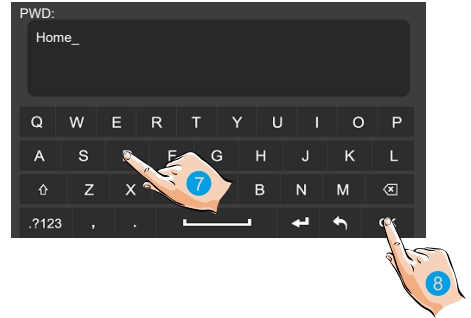


1. Press to enter wireless setting interface.
2. Press to activate the function, make sure the switch is ON.
3. Press to enter wlan setting interface.
4. Press to scroll the interface.
5. Press to select the domestic network to which you want to connect the device.
6. Press to enter the input password interface.

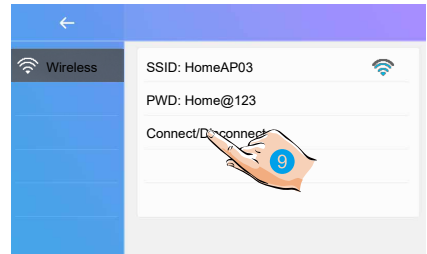


7. Enter the password (if required).

8. Press to activate the connection, and return to Wi-Fi information interface.



9. Go to Connect/Disconnect item.

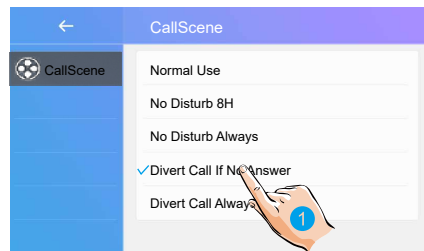


## SIP config

It's available to divert the call to mobile while out of home via SIP server.

On the call scene interface

1. Press to select the divert call mode:  
Divert Call If No Answer or Divert Call  
Always.



On the wireless setting interface

2. Press to enter the SIP config.



3. Press to restore all settings on “SIP config” and create 2 SIP accounts, one for EWS-MT471-W monitor and one for 2Easy APP. Server will apply to restore two accounts’ password to default, and register it. Only when:

- If your EWS-MT471-W monitor is not brand new, we suggest you press “Use default” before testing.
- 2Easy APP is not able to register on server

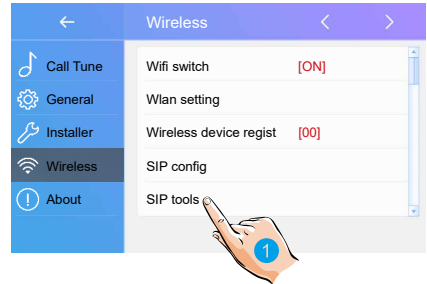
4. Press, EWS-MT471-W monitor will apply to clean all SIP “contact” on server, and also will try to register itself to server, with this function it will helps when:

- 2Easy APP is not able to get push notification.
- EWS-MT471-W monitor has connect with Wi-Fi, but “Server” icon with “!” or “x” beside.

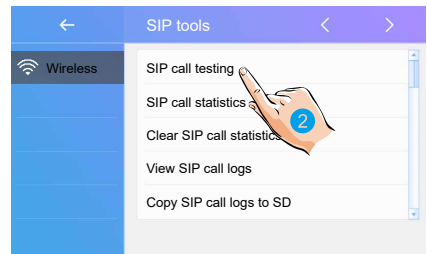
# SIP tools

SIP tools could test divert function and with an unattended door station.

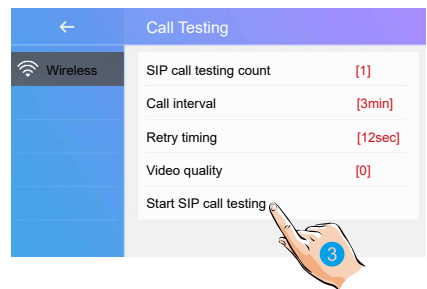
1. Press to enter the SIP tools page.



2. While if your test with pressing door station doesn't work well, you could also try with auto-test. Press to enter call testing page.



- "SIP call testing count" from 1 to 99, means test automatically 1-99 times;
- Set "Call interval" from 1 to 10 min, means system will wait 1-10 min between 2 calling;
- Keep "Retry timing" as default, 12sec
- Set "Video quality" to 0, means lowest required to network;

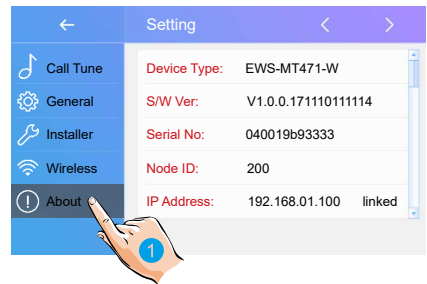


3. After all settings have done, press "Start SIP call testing", EWS-MT471-W monitor will immediately divert a calling to mobile.

In SIP tools page, you can also know the items "SIP call statistics", "Clear SIP call statistics", "View SIP call logs", "Copy SIP call logs to SD", "View registered Phones".

## About

1. Press to enter about interface.



**Device Type:** the device name.

**S/W Ver:** the software version.

**Serial No:** the device serial number.

**Node Id:** Node ID number.

**IP Address:** the device IP address.

**H/W Address:** the device Mac address.

**Subnet Mask:** the device subnet mask.

**Default Route:** the device default route.

**DT Address:** the device code number.

**M/S Code:** show the device is a master monitor or sub monitor.

**Online:** show the numbers of sub monitor.



# 13. Download Setup 2Easy APP

1. Scan and download 2Easy APP, or search “2Easy” on APP store.

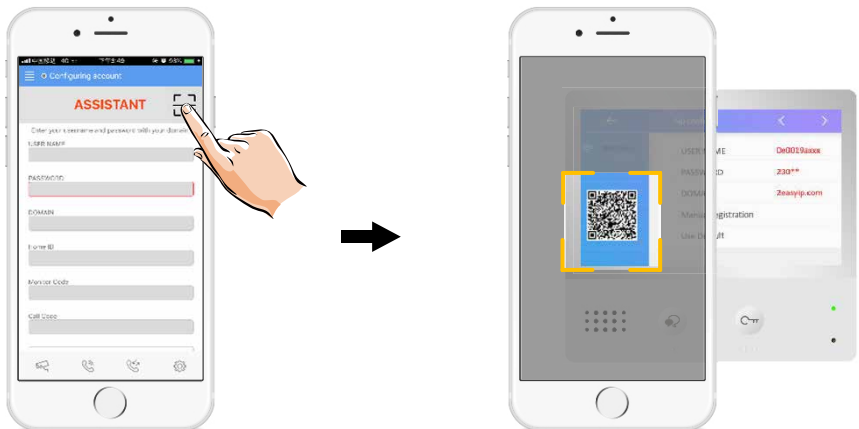
IOS



Android

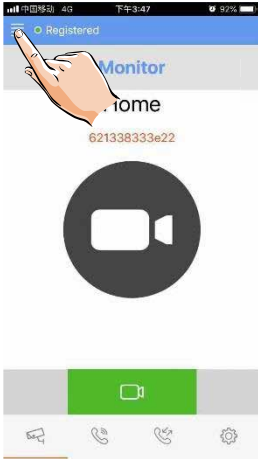


2. Permit “2Easy” with internet access and camera, on EWS-MT471-W monitor, press “SIP Server” icon on main menu, and keep in “SIP config”, on 2Easy APP, press on top-right, to scan QR code on EWS-MT471-W monitor, and press “Save”.



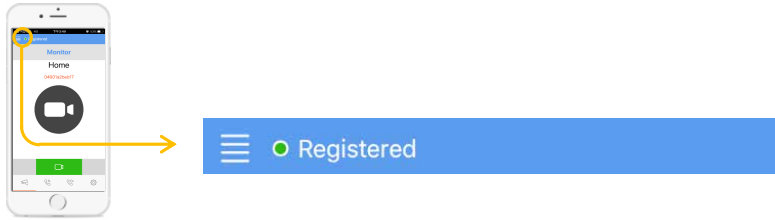
### 3. Disable “IPV6” on 2Easy APP

Most of internet provide doesn't support IPV6 feature, please manually disable it with follow steps:



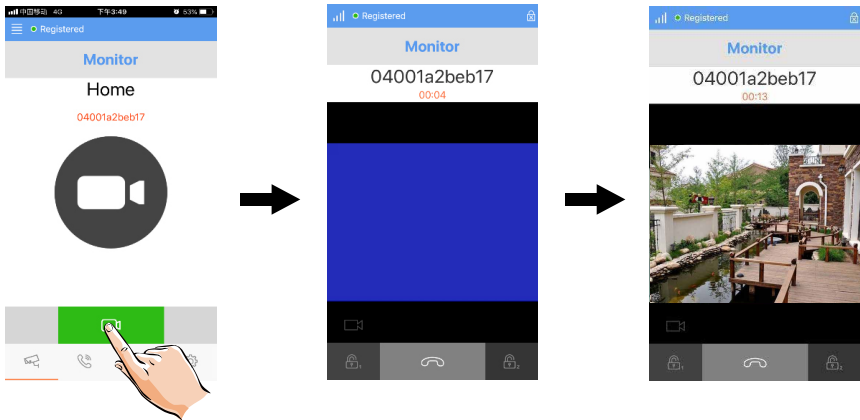
Press here to disable

4. After login SIP account on 2Easy APP, check on status bar, or press on the “Registered” area to manually register, until 2Easy APP display:



## 14. Surveillance door station via 2Easy APP

On 2Easy APP, press on “Monitor” and wait for a few second (Due to 2-Wire communication will take around 12 second to get video), blue screen is normally due to the EWS-MT471-W monitor is verifying the password and monitor code.



## 15. Specification

- Power supply: DC 20~28V
- Power consumption: Standby 1.8W; Working 8.16W
- Monitor screen: 7 Inch digital color TFT
- Display Resolutions: 800\*3(R, G, B) x 480 pixels
- Video signal: 1Vp-p, 75Ω, CCIR standard
- Wiring: 2 wire, non-polarity (should use twisted 2 wire, 2x0.75mm<sup>2</sup>, the thicker the better)
- Dimension: 161(H)×174(W)×22(D)mm

## 16. Precautions

- Slots or openings in the back of the monitor, are provided for ventilation and to ensure reliable operation of the video monitor or equipment and to protect it from overheating. These openings must not be blocked or covered. The monitor should never be placed near or over a radiator or heat register and should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
- All parts should be protected from violence vibration, impacting, knocking and dropping.
- Clean Monitor with soft cotton cloth, please do not use chemical detergent. If necessary, please use pure water or dilute soap water to clean the dust.
- Image distortion may occur if the video door phone is mounted too close to magnetic field e. g. Microwaves, TV, computer etc.
- Do not open the device in any condition, call your technician or installer for help if there is any problem.

**Note**

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## Note

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EWS-MT471-W V1 042020

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