



# AERO VIDEO

DOOR PHONE INDOOR UNIT

### Essential security solutions

Video door phones have become an integral part of our homes today. The security of our loved ones is the most important responsibility and video door phones help you with it. The audio visual conversation through the video door phone without even opening the door for anyone makes it safer.



From this moment on, you're going to experience a whole new world of good products for a better lifestyle. Look through the wide range of products and accessories and find yourself a good reason to switch to a better world.

**GM Modular Pvt. Ltd.** Te: 91-250-2451687/88 Fax: 91-250-2451689 info@gmmodular.com



# AERO VIDEO

DOOR PHONE INDOOR UNIT

- HI-RES COLOUR VIDEO DISPLAY**
- CRYSTAL CLEAR AUDIO**
- HANDS FREE FUNCTION**
- ULTRA FLAT DESIGN**
- TOUCH SCREEN**



### OPERATION AND INSTALLATION USER MANUAL



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Thank you for purchasing GM product. Hope you have carefully read this user's guide.  
Kindly follow the instructions before using the product for proper installation.  
The products are subject to change without prior notice.



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## WARNING AND CAUTION

Make sure to follow the instructions to prevent any danger or property losses.



### Warning

Death or serious injury is expected.



It indicates prohibition



It indicates disassembly.



It indicates prohibition of contact.

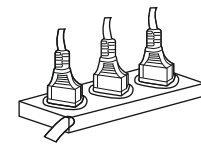


It indicates does and don'ts



It indicates that the plug should be pulled out from the socket.

### Warning



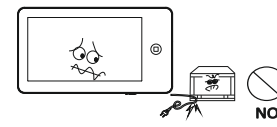
NO

Do not put the plug in the socket simultaneously. It may generate abnormal heat or cause a fire.



NO

Do not connect to other products while in use. It may cause breakdown.



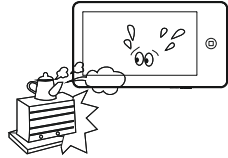
NO

Do not forcibly bend the cord or put a heavy object on the product. It may cause a fire.



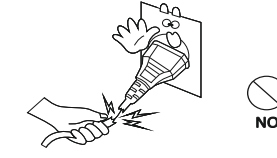
NO

Do not use water, thinner or a detergent used to wash oil products when you wash the exterior. Make sure to wash it by using a dry cloth to prevent any breakdown or electric shock.



NO

Do not install the product in a humid place. It may cause an electric shock or a fire.



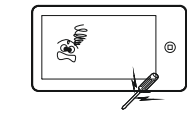
NO

Do not forcibly pull out the cord from the socket. If the cord is damaged, it may cause a fire or an electric shock.



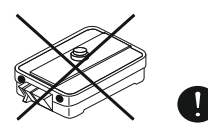
NO

Do not put the plug in the socket with a wet hand. It may cause an electric shock.



NO

Do not disassemble, repair or modify the product. It may cause a fire, an electric shock or an injury due to malfunction of the product.



Do not use AC circuit breaker. It may cause an electric shock.



Make sure to follow the instructions to prevent any danger or property losses.



### Caution

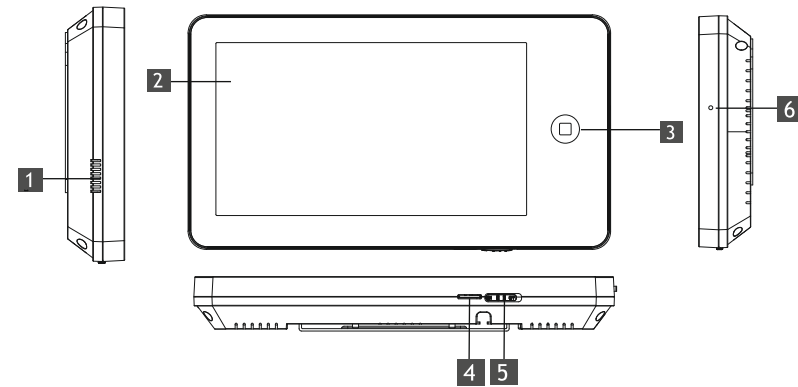
An injury or property losses are expected.

- It indicates prohibition
- It indicates disassembly.
- It indicates prohibition of contact.
- It indicates does and don'ts
- It indicates that the plug should be pulled out from the socket.

### Caution

 NO	 NO	 NO
 !	 NO	 !
 !	 !	 !

### THE FUNCTION AND NAME OF EACH PART



NO.	ITEMS	FUNCTION DESCRIPTION
1.	Speaker	
2.	LCD	
3.	Home key	Enter system main menu
4.	TF card slot	
5.	Power on/off	
6.	Microphone	

(b)If users record the system tone in their own language, we suggest the duration time be less than 20 seconds, otherwise, when the system format TF card, the files would be deleted.

### SPECIFICATION

NO.	ITEMS	FUNCTION DESCRIPTION
1.	Operation power	AC 100V-240V,50~60Hz
2.	Power consumption	50mA(Max), 15mA(In standby)
3.	Operation temperature	0°C to + 40°C
4.	Operation humidity	0%~95%
5.	Display Panel	7 inch
6.	Intercom function	Hands-free
7.	Connection	4 wires (RVVP 4 x 0.5mm <sup>2</sup> )
8.	Dimension	210mm x 116mm x 25mm
9.	Weight	470g



## PARAMETERS OF PICTURE CAPTURING, VIDEO RECORDING AND DVR FUNCTION

### Picture Capturing Function

Storage location	Resolution ratio	Pictures quantity
Internal flash	320 x 240	Over 64 pcs
External TF card	640 x 480	Depends on the capacity of TF card

### Video Recording Function

TF card capacity	Resolution ratio	Frame rate
1G	320 x 240	2
2G	320 x 240	5
4G	320 x 240	10
>=8G	640 x 480	10

### DVR Function

TF card capacity	Resolution ratio	Frame rate	Continuous video recording time
<2G	No DVR function		
2G	320 x 240	1	Over 24 hours
4G	320 x 240	1,2,5	When setting frame rate to 1, over 48 hours
8G	320 x 240	1,2,5,10	When setting frame rate to 1, over 96 hours
>=16G	320 x 240 or 640 x 480	1,2,5,10	When setting frame rate to 1, over 192 hours

Note: (a) Video recording time shall be different when the recording content is different. (In the worst situation, a 2G card can record pictures of 320 x 240 resolution ratio at 1 frame per second for 28 hours; in the best situation, the recording time can be over 72 hours.)



## FEATURES AND MAIN FUNCTION

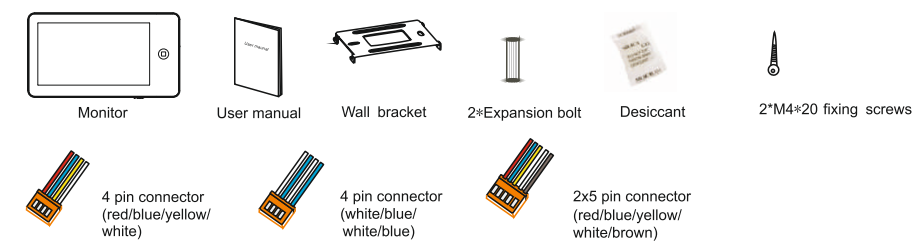
### 1. Features

- 7" colour digital LCD
- Touch screen
- Hands free design, perfect intercom with clear voice
- Surface mounted
- 4 wire connection
- Simple operation

### 2. Main function

- Lock control
- Support TF card
- "Do Not disturb" function.
- Broadcast function
- Monitor listening
- Simple DVR function with motion detection
- Auto leaving message
- Video & audio recording
- Lock control
- Picture taking with internal flash or TF card
- Multimedia function: photo frame, music playing
- Brightness, contrast and colour adjustable
- Alarm clock and calendar
- Real time monitoring of doorbell or CCTV camera
- Make internal call to other monitors
- Call transfer

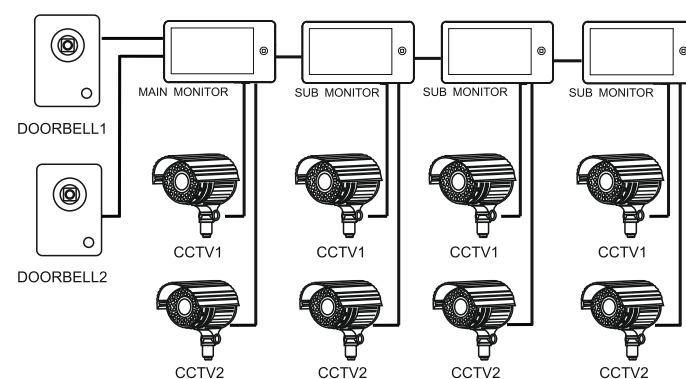
### Package contents



## SYSTEM LAYOUT

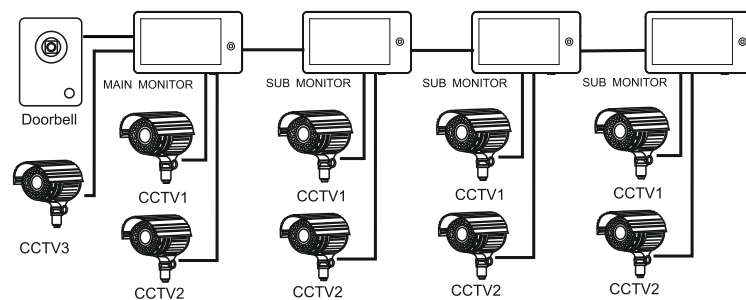
### 1. The port to connect doorbell panel

The system can maximum support 1 main monitor, 3 sub monitors, 2 door panels and 8 CCTV cameras.



### 2. The port to connect the CCTV camera

The system can maximum support 1 main monitor, 1 door panel, 9 CCTV cameras and 3 sub monitors.







Note: Based on the actual usage, please refer to Page 24 set the port state.

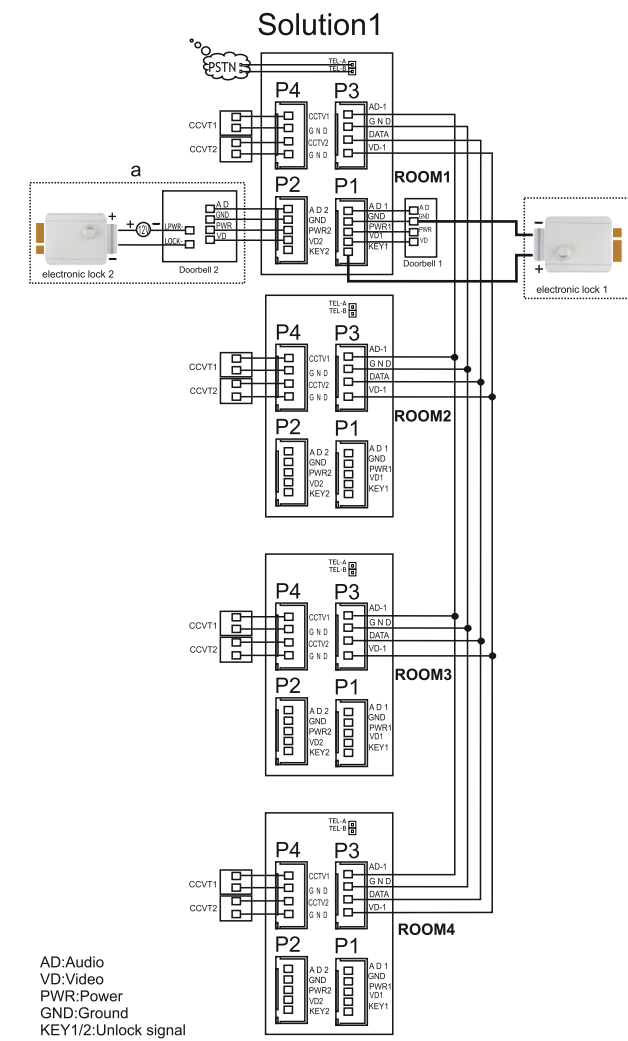
NO.	SETTING ITEMS	OPTIONS	NOTE
2-6-1-2	CYCLE TYPE	SINGLE	
		WEEK	
		MONTH	
		YEAR	
2-6-1-3	WEEK SELECT	SUNDAY	You can set each day's state as enable/disable to create an alarm group you like.
		MONDAY	
		TUESDAY	
		WEDNESDAY	
		THURSDAY	
		FRIDAY	
		SATURDAY	
2-6-1-4	TIME	HOUR: MINUTE	
2-6-1-5	DATE	YEAR	At single Type, YEAR, MONTH and DAY are all valid; at Week Type, all options are invalid; at year type, only MONTH and DAY are valid.
		MONTH	
		DAY	
2-7	SYSTEM FORMAT	FORMAT FLASH	
		FORMAT SD CARD	
2-8	PROGRAM VERSION		
2-9	BACKGROUND IMAGE SETTING	PICTURE 1/2/3/4; COLOUR 1/2/3/4/5/6/7	
3-1	RESTORE DEFAULT	CANCEL	
		RESTORE	
3-2	LANGUAGE		

Note: System settings menu of "2-1(b)ANSWER MODE" and "2.4 PHONE NUMBER SETTING" are only available for the model with telephone module.



NO.	SETTING ITEMS	OPTIONS	NOTE
2-4	PHONE NUMBER	P/*/#/0/1/2/3/4/5/6/7/8/9/	Set he call transfer number
2-5	SYSTEM TIME SETTING	DATE: YEAR-MONTH-DAY	
		TIME: HOUR:MINUTE:SECOND	
2-6	ALARM CLOCK SETTING	ALARM CLOCK 1	1. Each alarm clock can be set separately. 2. Since set time, it will alarm every 50 seconds till you turn the alarm clock off by press menu key
		ALARM CLOCK 2	
		ALARM CLOCK 3	
		ALARM CLOCK 4	
		ALARM CLOCK 5	
		ALARM CLOCK 6	00-07
2-6-1	SET ALARM CLOCK 1/2/3/4/5	STATE	 
		CYCLE TYPE	4 types available: SINGLE/WEEK/MONTH/YEAR
		WEEK SELECT	Only valid at Week Type.
		TIME	
		DATE	
2-6-1-1	STATE		The alarm will trigger at the set time.
			

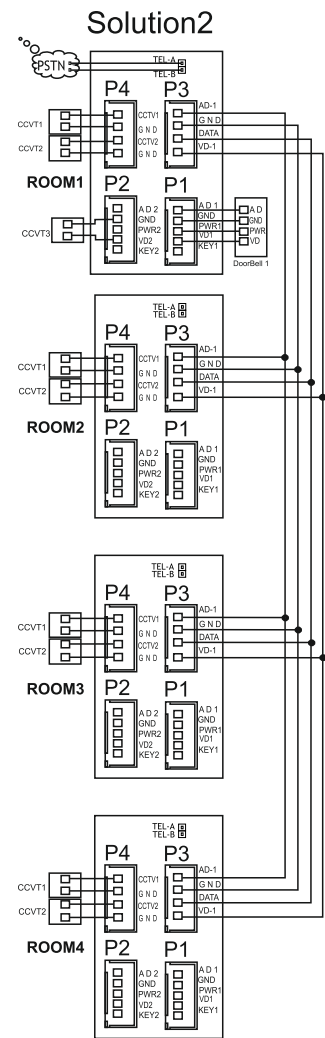
## WIRING DIAGRAM



**Note:**







- (a) Door panel unlock wiring: electronic lock 1+ external power supply.
- (b) Indoor monitor unlock wiring: electronic 2+ bold black cable part.
- (c) The terminal of TEL – A/B is only available for the model with telephone module.

**WIRING DIAGRAM**



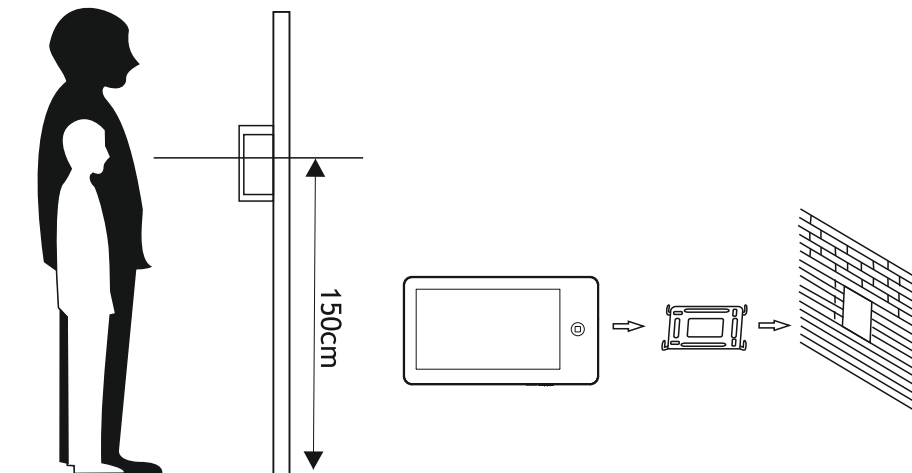
Note: each indoor monitor can only view the images from the CCTV connected on its own CCTV port (If the CCTV is connected on main monitor's outdoor panel port, all the monitor can view the images from it).

NO.	SETTING ITEMS	OPTIONS	NOTE
1-9-2	MONTH DETECTION SENSITIVITY		It means whether the motion detection is start or sensitivity.
		LOW	
		NORMAL	
1-9-3	BEGIN TIME	HOUR:MINUTE	
1-9-4	END TIME	HOUR:MINUTE	
1-9-5	FRAME RATE	1/2/5/10 FRAME/S	Related with TF card capacity,P27
1-9-6	RESOLUTION	320 x 240	Related with TF card capacity,P27
		640 x 480	
1-9-7	RECORD LOCATION	DOOR 1	
		DOOR 2(OPTIONAL)	
		CCTV 1(OPTIONAL)	
		CCTV 2(OPTIONAL)	
1-9-8	SCREEN SAVER TIME	NEVER/0/01/02/03/04/05/10/15/20/25/30/35/40/45/50/55/60MIN	The screen will be off when the set screen saver time arrives.
2-1(a)	AUTO LEAVING MESSAGE	 	
2-1(b)	ANSWER MODE	MANUAL ANSWER	
		AUTO ANSWER	Only valid when the device address set ROOM 1
2-2	DEVICE ADDRESS	CALL TRANSFER	Only available for the model with telephone module
		ROOM 1/2/3/4	The option will be red if two monitors set the same address
2-3	PORT STATE	PORT 2 STATE	
		Door 2/CCTV3	
		CCTV1	
		CCTV2	

NO.	SETTING ITEMS	OPTIONS	NOTE
1-5	BE MONITORED		
			
1-6	ICON NAME		No icon names displayed on the screen
			The icon names will displayed on the screen
1-7	AUTO CAPTURE QUANTITY	DISABLE	The icon names will displayed on the screen
		1	Automatically capturing 1 images
		2	Automatically capturing 2 images
		3	Automatically capturing 3 images
1-8	COPY FILE TO SD CARD	CANCEL	
		COPY	
1-9	DVR SETTING	DVR ENABLE	
		MOTION DETECTION SENSITIVITY	
		BEGIN TIME	DVR starts working.
		END TIME	DVR ends working.
		FRAME RATE	
		RESOLUTION	
		SCREEN SAVER TIME	
		RECORD LOCATION	
1-9-1	DVR ENABLE		The DVR will start working at the BEGIN TIME.
			

## INSTALLATION METHOD

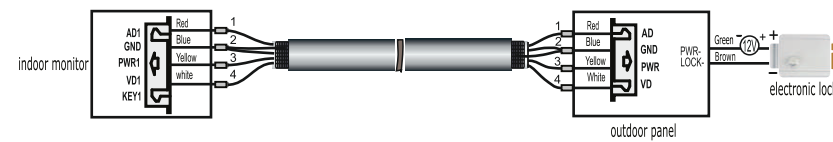
- 1.Refer to relevant wiring diagram for the system you have chosen and ensure you have the correct cable.
- 2.Determine the monitor installation position:
  - Advised to install at 1.5 ~ 1.6 Meters
  - Advised distance between indoor monitor and doorbell to be at least 350mm
- 3.Ensure there is no power supply connection before the installation is finished.
- 4.Take off the bracket from the back of the monitor.
- 5.Install the bracket on the wall
- 6.Connect cables as indicated in the wiring diagram.
- 7.Fix the monitor onto the bracket.
- 8.Connect power when doorbell is installed.



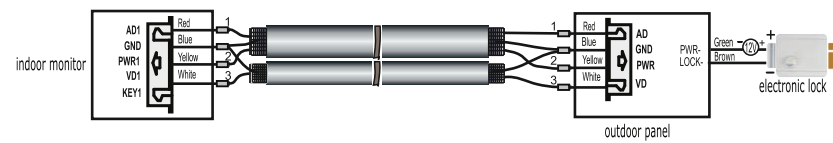
### CABLE SPECIFICATION

Our system has 2 solutions to unlock the door: Unlock signal from doorbell or unlock signal from the monitor. (The cable shield wire needs to be grounded) When signal from the doorbell, cable specification is:

- Distance between monitor and door station is less than 30 meters, shielded 4 x 0.5mm<sup>2</sup> cable is available.

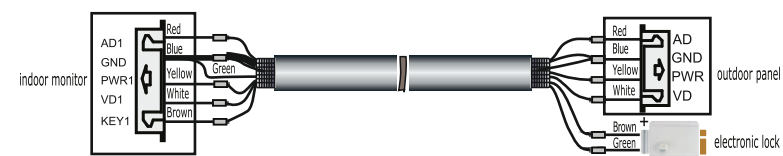


- Distance exceed 30 meters, please choose SYV-75-3 coaxial cable for video with another shielded 2 x 0.5m<sup>2</sup> cable or professional cable SYV – 75 – 3 + RVVP 2 x 0.5mm.



When signal is from the monitor, cable specification is:

- Distance between monitor and door station is less than 30 meters, shielded 6 x 0.5mm<sup>2</sup> cable is available.



- Distance exceed 30 meters, please choose professional cable SYV – 75 – 3 + RVVP 4 x 0.5 mm<sup>2</sup> (recommended).

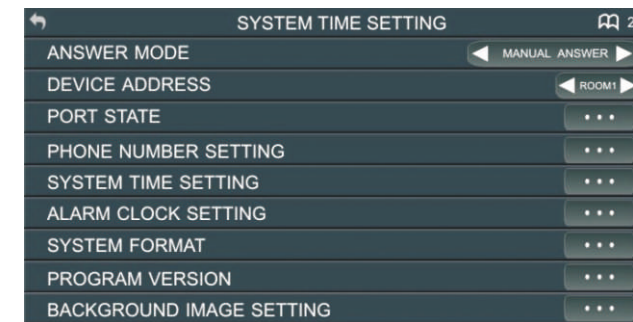
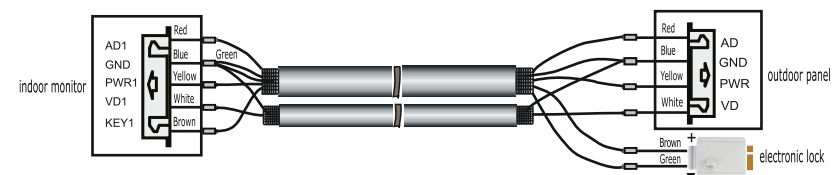


Figure10

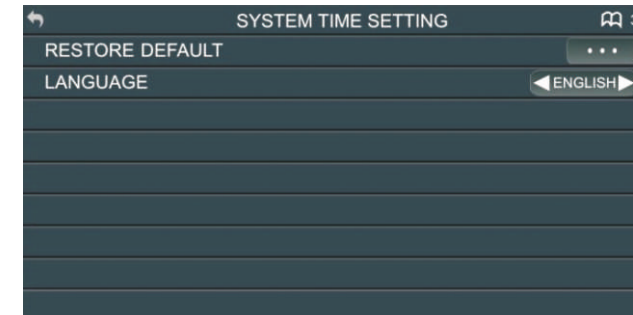





Figure11

NO.	SETTING ITEMS	OPTIONS	NOTE
1-1	CHIME TIME	10S/15S/20S/25S/30S/ 35S/40S/45S/50S/55S/ 60S	Chime duration time
1-2	CHIME VOLUME	10~100%	
1-3	CHIME TYPE SETTING	DOOR 1 CHIME TYPE	00 - 07
		DOOR 2 CHIME TYPE	
		INTERCOM CHIME TYPE	
	RINGE TONE REPEAT	Ring tone will repeat when the option is	
1-4	NO DISTURB		The indoor monitor will be mute once someone presses doorbells/makes internal call/broadcast.
			



## 2.SHORTCUT MENU

PIC.	FUNCTIONS	NOTES
	Calender	Electronic calender display
	Doorbell monitoring	Choose to enter doorbell monitoring state
	Call transfer	Enter call transfer state
	Broadcast	Make broadcast to others
	Monitoring listening	Enter monitor listening state
	System settings	Enter system settings

## SYSTEM SETTING

When you enter the system main menu, click to go to the system settings menu as figure 9,10,11.

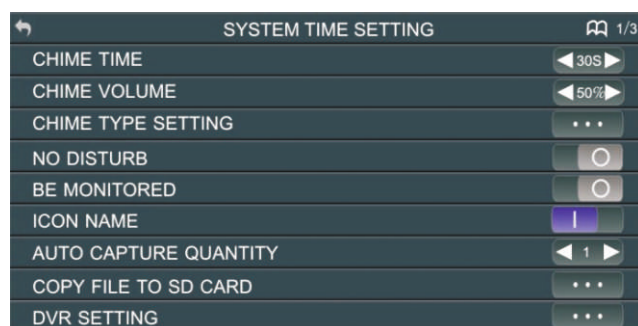


Figure9



## OPERATION GUIDE

The system supports five kinds of action types:

- 1.Click:** In multimedia manager interface, clicking anywhere on the blanked place will pop up the related operation menu. Clicking again can hide the menu.
- 2.Left slide:** Left slide on the bottom of the screen can return to the last menu/ View last picture.
- 3.Right slide:** Hide the menu in multimedia interface/ View next picture.
- 4.Up slide:** In system settings, up slide to next page.
- 5.Down slide:** In system settings, down slide to last page.

**When at answering or monitoring state, the below menu will show on the right of the screen.**

Icon description								
Answer	Hang up	Call/Call transfer	Monitor switching	Function adjustment	Image capturing	Video recording	Unlock	

## INCOMING CALL ANSWER

When a visitor presses doorbell, all the indoor monitors in this house will chime simultaneously, the screen will show INCOMING CALL. Click the icon to talk with the visitor (talk time is 60 seconds). If you want to unlock the door for the visitor, click the icon, then DOOR UNLOCKED will show on the screen.

- If there is another incoming call during the conversation, SOMEONE IS VISITING DOOR 2 will display, click the icon can switch to another visiting.
- You can transfer your call to other monitors in the system while talking to the visitor. If you want to transfer the call to others, click the can transfer the call. (The words TRANSFERRING TO OTHER ROOMS will display).



### TALKING VOLUME/ADJUST

At talking/ intercom state, click the icon to enter volume adjust screen, then click + or – to adjust the volume.

### BRIGHTNESS/COLOUR/CONTRAST ADJUST

When the screen is on, click the icon to adjust the volume first, then click it again and you can enter the BRIGHT/COLOR /CONT adjust screen, click + or- to adjust the brightness, color and contrast.

### MONITOR DOORBELLS/CCTV CAMERA

At standby state, click to enter system main menu, then click the icon , you can view images from the connected doorbell/CCTV. Click the icon again you can switch to other monitor channels. When monitoring the doorbell, click the icon can change into (MUTE STATE). If the microphone is in normal state, click the icon can open the door.

**If you have more than one monitor (up to 4 monitors) in yours house, you can make below operations.**

### INTERNAL CALL AMONG MONITORS

If you make intercom request for all monitors, at standby state, click to enter system main menu, then click the icon . If you have more than 2 monitors connected together, you can click the target monitor NO on the screen to confirm the calling.

### BROADCAST FUNCTION

This function allows you to broadcast information to all monitors in your house. At standby state, click , to enter system main menu, then click the icon , the screen will show BROADCAST REQUEST, the monitor in other rooms will show BROADCASTING. Now you can broadcast.



### MULTIMEDIA MENU

PIC.	FUNCTIONS	NOTES
	Review/delete captured images.	If there are new/unread images, there will be a NO. on the right corner of the icon.
	Review/delete recorded videos.	If there are new/unread videos, there will be a NO. on the right corner of the icon.
	Review/delete recorded DVR files.	
	View/delete the pictures stored in TF card. Listen/delete the music files stored in TF card.	
	View/delete the recorded audio files. Change the attention tones to user's own sound.	If there are new/unread audios, there will be a NO. on the right corner of the icon.
	Record audios.	



- a) Press ## on the phone to talk with the visitor. Talking time: 60 seconds (Max).
- b) Press \*\* on the phone to hang up the call.
- c) Press 00 on the phone to unlock the door.

### SYSTEM MAIN MENU




At standby state, press  to enter system main menu as Figure 8.



Figure 8




### MONITOR LISTENING

To activate listening of another monitor, click  to enter system main menu, then click the icon . If you have more than 2 indoor monitors, click on the target monitor NO. on the screen to confirm. Display of your monitor will show "LISTENING TO OTHER". The maximum monitor listening time is 8 hours.

Note: CAN BE MONITORED function should be enabled in SYSTEM SETTINGS of the target monitor. If you want to deny listening of your monitor from another monitors, disable CAN BE MONITORED function in the system.

### CAPTURE IMAGES

1. Automatic image capturing: "Auto capture quantity" should be set as 1,2 or 3 in the SYSTEM SETTINGS. The system can automatically take and save pictures when the doorbell rings.

2. Manual image capturing: When at answering and monitoring state, click the  icon to capture images manually before answer. The words IMAGE CAPTURED will show on the screen.

### DVR FUNCTION

Automatic DVR function: Enable DVR in SYSTEM SETTINGS --> DVR SETTINGS to activate that function. You can record video from any doorbell or CCTV camera in your system at a set time.



Note:

- (a) If MOTION DETECTION SENSITIVITY is set to be LOW/NORMAL/HIGH, the system will record only when motion detected and last for 10minutes after that, then it will stop recording until another motion is detected.
- (b) Sound doesn't record in DVR function.
- (c) DVR function cannot work when the TF card is less than 2G, for 2G TF card, it can only work at 1 frame/second with resolution of 320 x 240. For longest recording time and other parameters, please refer to Page 27.
- (d) To activate DVR function, please use the TF card with capacity no less than 8G.



- (e) For a high quality video, we recommend 640 x 480 resolution.
- (f) When the start time and the end time are set as the same time, the DVR function will active in 24 hours immediately and last forever.
- (g) For detail information of DVR function, please refer to Page 20,23,24.

### MANUAL VIDEO RECORDING

When at the answering and monitoring state, click the  icon to record video manually. Click the  icon again to end the recording.



Note: View and manage video files. Please refer to Page 16,17.

### AUTO LEAVING MESSAGE


This function lets your visitors leave a video message for you while nobody is at home. You should activate AUTO LEAVING MESSAGE or MANUAL ANSWER function in the SYSTEM SETTINGS before leaving home to activate this function. When the visitor presses call button on the door panel and nobody answers before the chime time ends, visitor can hear a voice "Hello, no one is at home at the moment, please leave a message after the tone" from the door panel and have 20 seconds to leave a message for you.

Note: View and manage messages and more operation, please refer to Page 16, 17.

### FAMILY AUDIO MESSAGE

You can record an audio message to your family. At standby state, click  to go to the system main menu, then click the icon  to enter message recording menu as Figure 1.



- 4.View multimedia files: click the  icon to review multimedia files. You can review pictures and play music follow the above steps (Review photo).  
Note: When there is no TF card inserted, you can review the pictures in the internal flash, if a TF card inserted, you can review the pictures in the internal flash, if a TF card is inserted, you can view the pictures saved in the TF card.

### DELETE SINGLE FILE OR FOLDER


If you want to delete a file or folder, you can select the single file or folder in the list, then click the  icon (Delete) to enter the screen as Figure 7:




Figure 7

Click DELETE to delete the selected file or folder.

Note: It's the same operation to delete image, audio and DVR files.

### TRANSFER OUTDOOR PANEL'S CALL TO TELEPHONE/MOBILE (only available for the model with telephone module)

- 1) Go to  SYSTEM SETTINGS and set ANSWER MODE to CALL TRANSFER(only available for master monitor). Then click PHONE NUMBER SETTINGS and enter phone number, which the call will be transferred to. If you want to add a pause during dialing, insert a letter "P", which means 1 second pause during dialing, If want longer pause, please add more "P" in the telephone no.
- 2) If no one answers during CHIME TIME, the call will be transferred to the set telephone. "TRANSFERRING TO TELE" will display on the monitor's screen while transferring.
- 3)After picking up the call, the user will hear the chimes from the door panel.



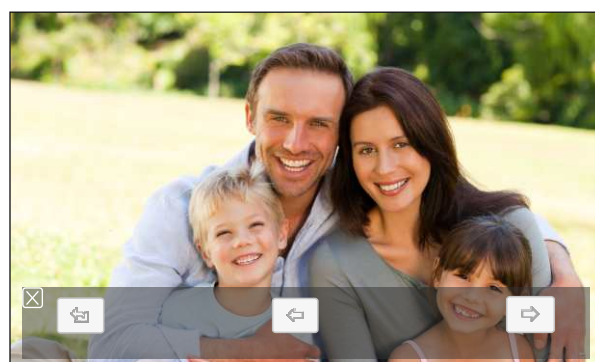


Figure 5

Click the or icon to view the images. The image will automatically change in every 5 seconds. If you want to exit, click the icon can return to the last menu.

2. Review video: Click to enter the video list, select the video file to enter Figure 6.



Figure 6

You can click the related icon to play the video, click the icon to exit.

3. Play DVR: Click the icon to enter DVR files. The operation steps are the same as above (Review video).

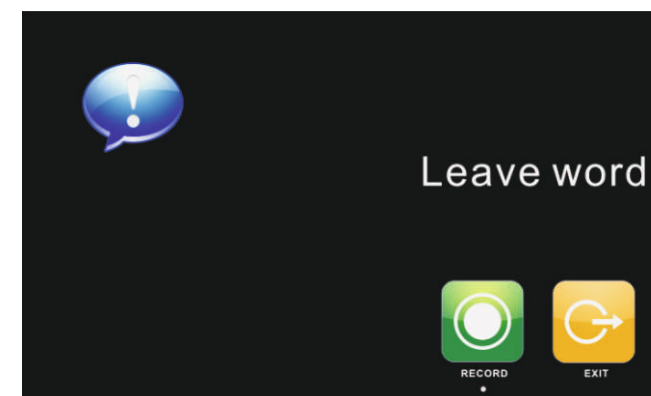


Figure 1

Click "RECORD" to start recording. When the recording is finished, click "STOP" to stop recording. If your message was recorded successfully, then click "EXIT" to exit the recording menu.

Note: View and manage messages and more operation, please refer to Page 14,15, 18.

### CHANGE ATTENTION FOR AUTOMATIC ANSWERING FUNCTION

When AUTO LEAVING MESSAGE or MANUAL ANSWER is on, if nobody answers the call before chime time ends, the visit will hear a voice attention message: "no one is at home at the moment, please leave a message after the tone"? If the user wants to change this attention message (BEGINNING TONE) into their won sound, please take the following steps:

Go to the menu and record one audio message, then exit menu and enter

menu as Figure 2.







Figure 2

Click to choose the audio file you want to set as beginning tone, then click the icon (Tone setting) to “CONFIG ATTENTION TONE” menu as Figure 3.



Figure 3

Click the TONE TYPE to change the option to be USER TONE. Then click the PLAY TYPE to change the value to BEGINNING TONE. You can also adjust the attention tone volume. When you click the selected content, a selected menu will display on the screen. Click  or  to modify the system setting, click  or  to slide up and down. When you finish the above operation, click ACT to confirm the setting. It's the same operation to change the ENDING TONE.

## ALARM CLOCK AND ELECTRONIC CALENDER

- 1.Enable ALARM CLOCK SETTING in the SYSTEM SETTINGS.
- 2.At the set time, you can turn off the alarm by clicking the chime icon at the left corner of the screen.
- 3.When Figure 4 displays on the screen, click the alarm clock (The left corner) and the display time (The right corner), you can set the alarm clock and calendar in the shortcut way.
- 4.Please refer to Page 25, 26 for detailed settings.

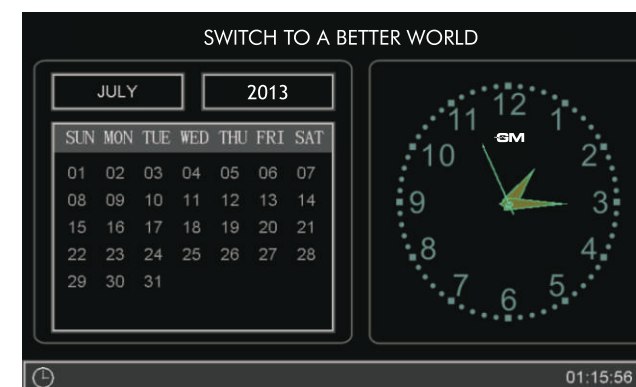




Figure 4

## VIEW PHOTO, VIDEO, DVR AND MULTIMEDIA FILE

At standby state, press  button to go to system main menu. If you have unread files, there will be a number on the right corner of the icon with red color, the number is the unread files' quantity. All files' names consist of the date and time it was created, for example: 2013-02-01 11:30:20,means that files was created at 11:30:20, Feb, 1 st,2013. So it's very convenient for you to know the recording time and identify different files

- 1.View photo: click the  icon to view image files, click the file's name then you can see the image as Figure 5.