

OPERATION INSTRUCTION

AHD Video Intercom System

Indoor Monitor

User Manual

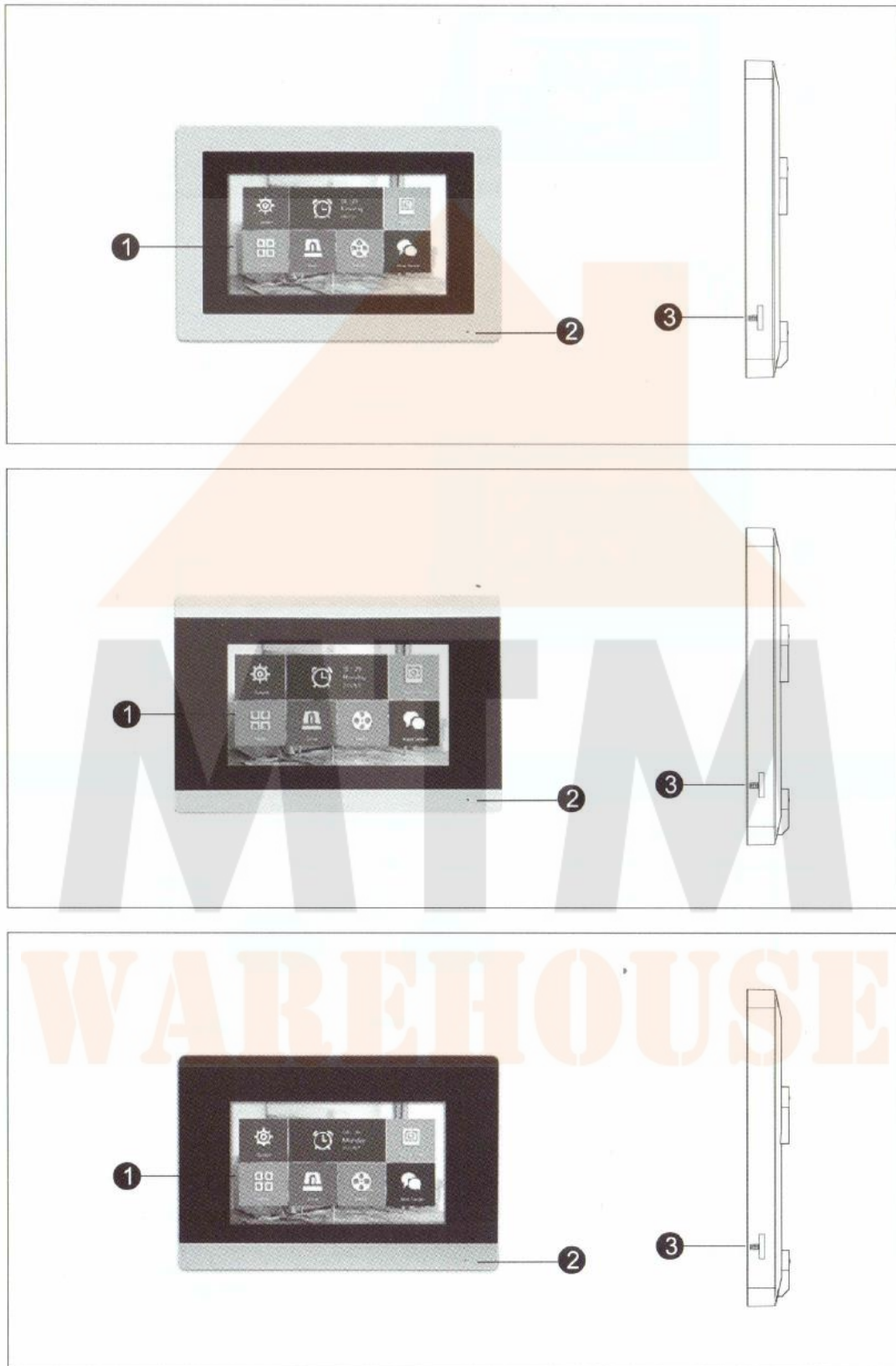


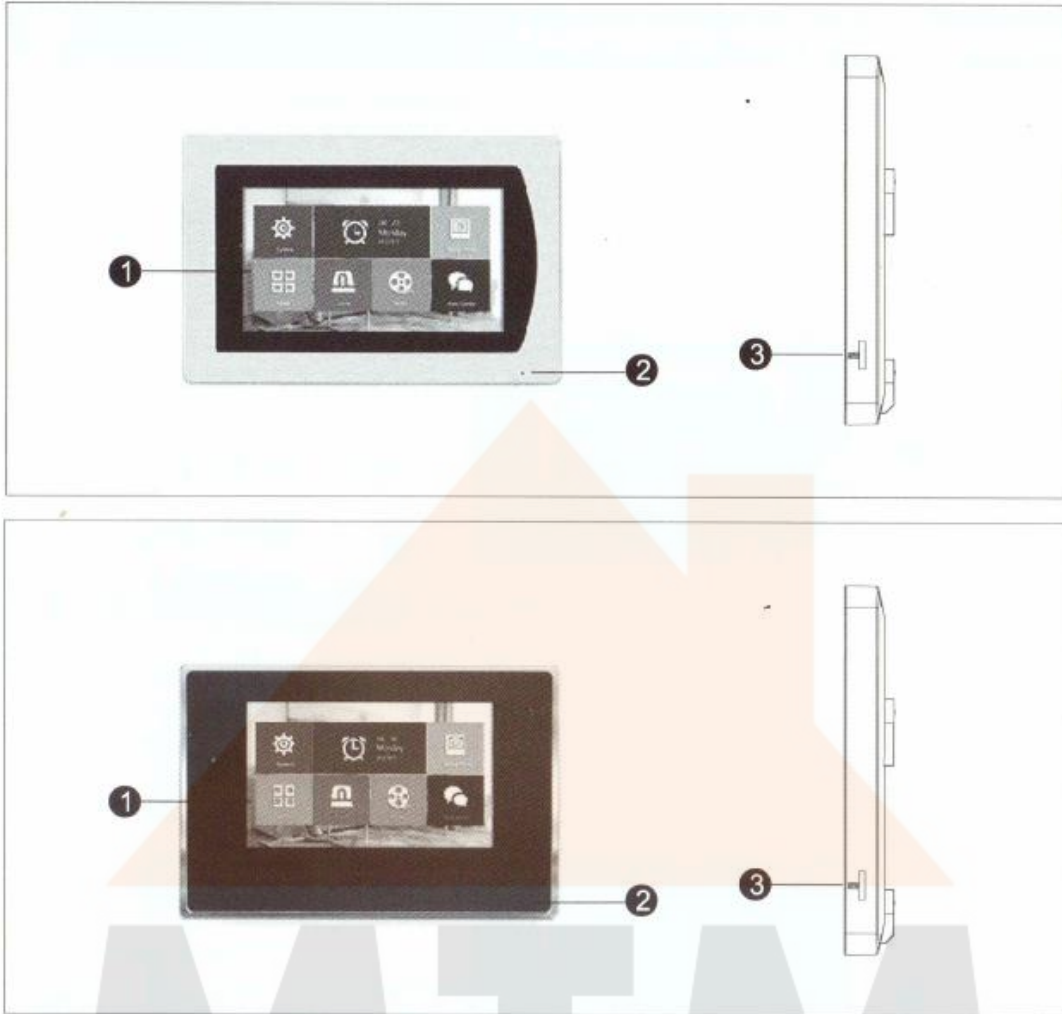
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INDOOR MONITOR SPECIFICATION

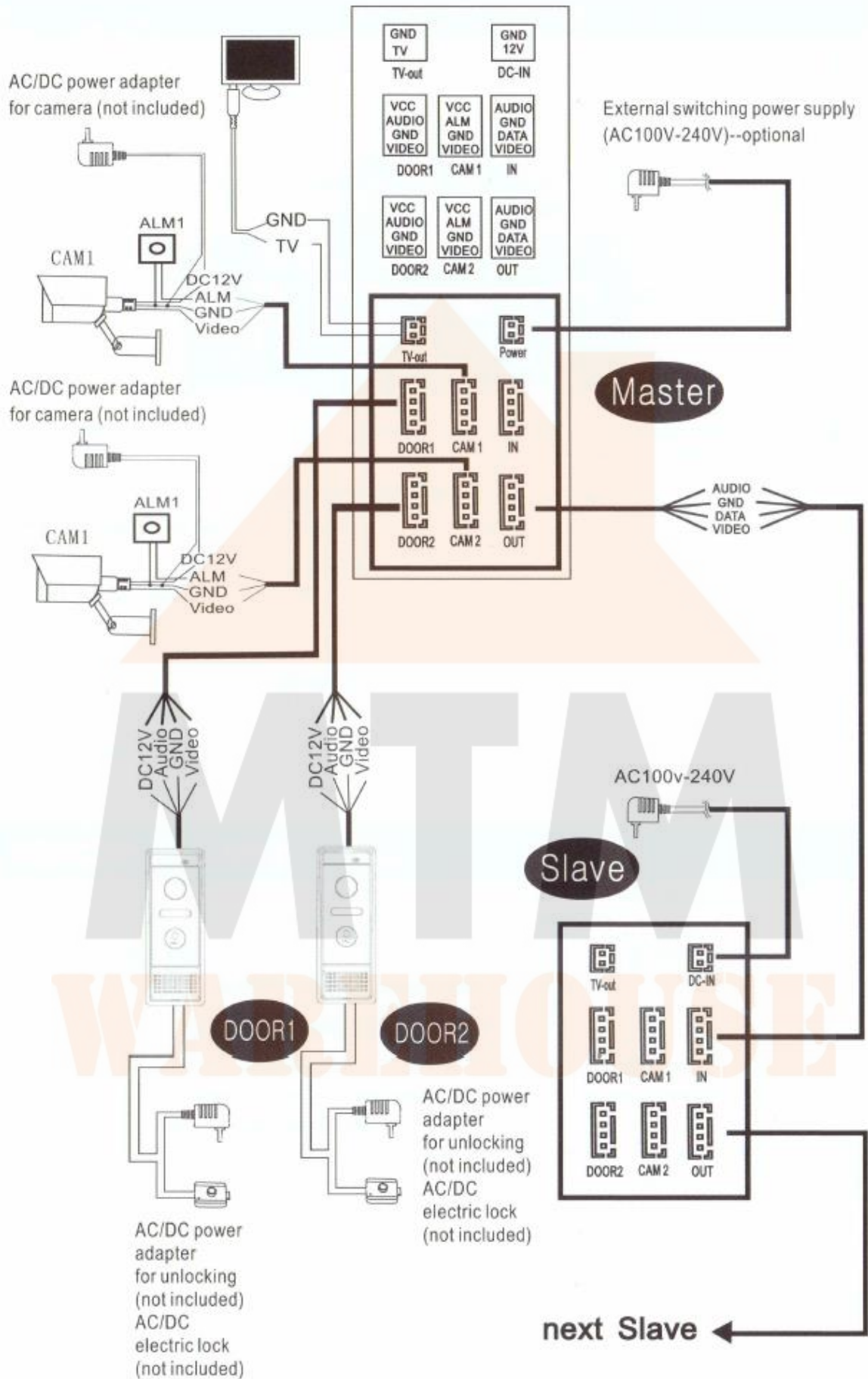
Note: The following are diagrams of all the available indoor unit models, not all models have the same layout or features, please take actual model as quasi.





No.	Name	Description
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 model with SD card, Insert the SD card for recording.

WAREHOUSE



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 in the constantly 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 comes with a built-in power or an external power optional. Please refer to actual control instruction. If the indoor machine comes with a built-in power source, it is applicable to a wide voltage range (AC100V-240V). Please firstly pull out the AC power plug before installation of the device.

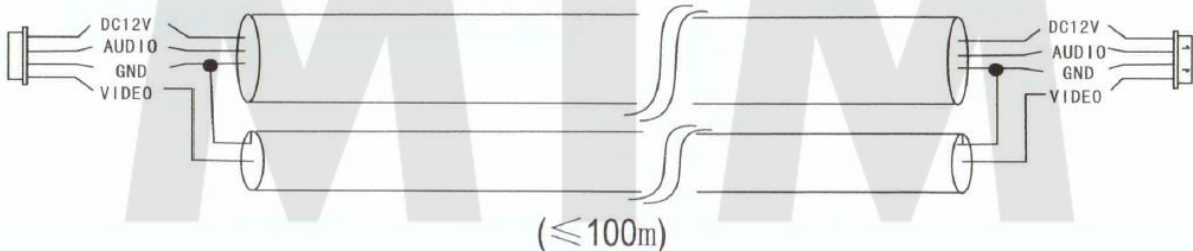


Use the selection of wire, please refer to the following. (The actual effect and the quality of wire rod have a big relation).

1. 4C ordinary unshielded and shielded wire connection mode:
Distance $\leq 28\text{m}$ ($4 \times 0.2\text{mm}^2$); Distance $\leq 50\text{m}$ ($4 \times 0.3\text{mm}^2$); Distance $\leq 80\text{m}$ ($4 \times 0.5\text{mm}^2$).



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



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



Unshielded network cable ($\leq 50\text{m}$)

MAIN MENU

Touch screen during standby mode to enter the main menu.



[Door station 1]: Monitoring door station 1 image.

[Door station 2]: Monitoring door station 2 image.

[CAM 1]: Monitoring camera 1 image.

[CAM 2]: Monitoring camera 2 image.

[Menu]: Enter menu, inside are the system settings, digital photo frame, mode, alarm, media, record centre.

[Internal call]: Base on more than 2 indoor monitor mode, No. 1 monitor receiving the call can transfer it to No. 2 monitor.






[Unlock]: Unlocks the door.

[Return]: Back to main menu.

DESCRIPTION ON SYMBOLS

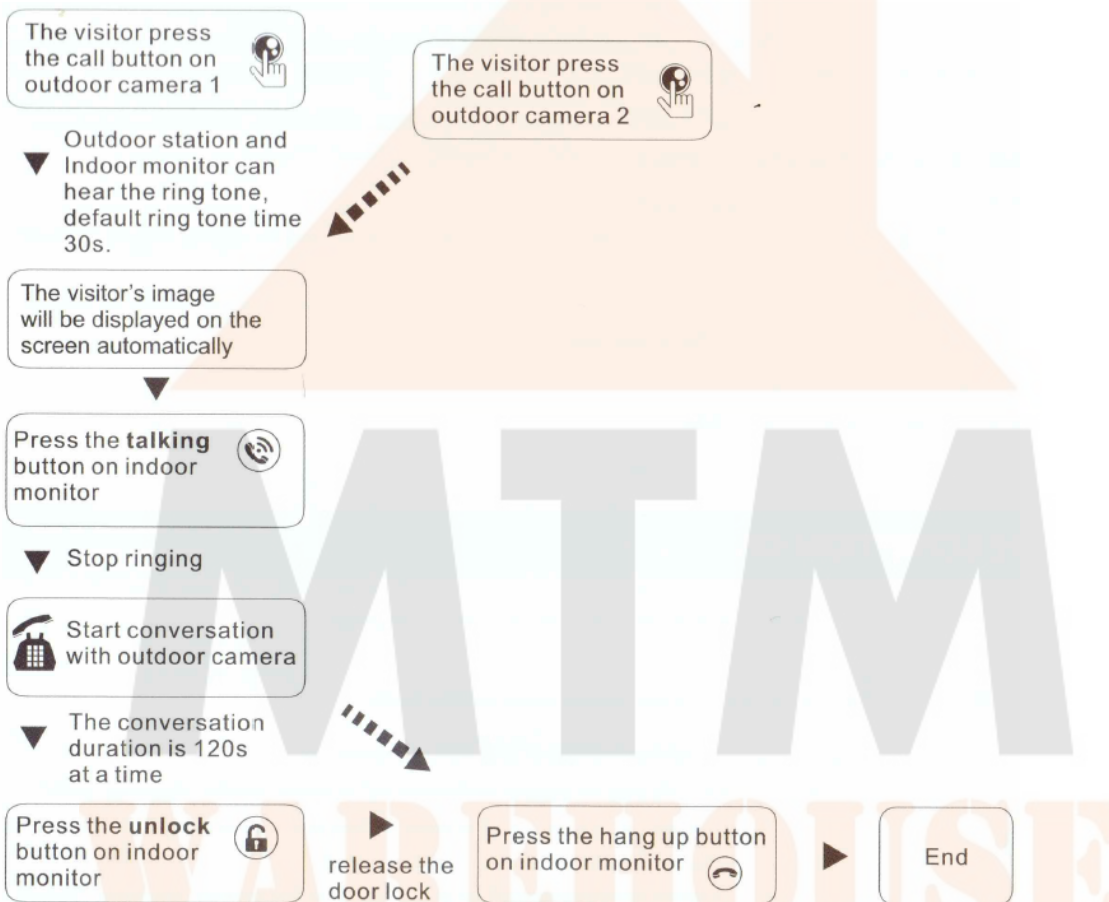
From the main menu, press door station 1 or 2, enter one of the pages.




	Monitoring: Switch 2 door station and 2 camera images.
	Transfer call: internal call transfer or door station call transfer. <ol style="list-style-type: none"> Internal transfer call (base on outdoor station not call to indoor monitor situation): Press the main menu, transfer icon to show the optional slave monitor, you can choose any slave monitor number to do internal intercom. Door station transfer call (base on outdoor station call to indoor monitor situation): During an outdoor station call with one of the indoor monitors, press the main menu transfer icon to show the optional slave monitor. At this moment, you can transfer the call to another slave monitor. <p>Note: During monitoring status, pressing the “” does nothing.</p>
	Snapshot: In a not calling status, you can initiate snapshot an image from the outdoor station.
	Recording: in a not calling status, you can initiate record a video from the outdoor station.

	Colour conditioning: While on the line or monitoring status, press “  ” to display the colour options: volume, brightness, contrast, saturability, refresh, return (volume adjust: adjust the talking volume; refresh: refreshes the door station system, PAL or NTSC).
	Talk: Answer the outdoor station calling.
	Hang up: End up calling
	Unlock: Open the door

VISITOR CALL

Standby Mode



1. Standby mode, the visitor presses the outdoor station call button on either of the outdoor station to send a call to the indoor monitor.
2. Outdoor station and indoor monitor both hear continuous ringing, default is 30 seconds.
3. Visitor image is automatically displayed on the indoor monitor.
4. Press “” to start the call with the visitor, talk time is within 120 seconds (2 minutes).
5. During the call, the indoor monitor can press the unlock icon “” to open the door, unlock time default is 2 seconds (unlock time option can be 2 – 10 seconds).
6. After unlocking, there is a 20 seconds delay time to check the visitor, and then it returns to standby mode.
7. Otherwise, Press “” to finish the call and return to standby mode.

Note:


1. When inserting the SD card in the monitor and set to recording mode, the monitor will start recording from the outdoor station.
2. When inserting the SD card in the monitor and set to snapshot mode, the monitor will start snapshot from the outdoor station.
3. During a call, pressing the “📷” button will not switch the image.
4. During a call, if another outdoor station call or alarm have the “DIDI voice prompt”, the words “CAM1/2 Alarm” and/or “Door1/2 calling” will show on the indoor monitor.
5. If two outdoor station press the call button almost at the same time, the system will automatically identify the first caller. The second caller will be given no action.
6. If the “Leave message” function is switched OFF and the indoor monitor has no answer for 30 seconds, the ringtone will stop and go back to standby mode after 60 seconds.
7. If the “Leave message” function is switched ON, the recording mode is ON and the indoor monitor has no answer for 30 seconds, at this moment, the outdoor station will ask to “Please leave a message”. Leave a message length of 30 seconds.

MONITORING

On the main menu, display Door1, Door2, CAM1, CAM2. Press one of them to enter the image.



1. Press the “📷” to switch to a different image for the outdoor station and camera.
2. Monitoring system time is set to 60 seconds by default to go back to standby mode.
3. During monitoring mode for the outdoor station, the indoor monitor will hear sounds coming from the outdoor station, the outdoor station will not hear the indoor monitor sounds.
4. During monitoring mode for the outdoor station, failure to do the transfer process to prompt these buttons. Press the “📷” to take a snapshot image or “📹” to start recording the outdoor unit. Press the “⚙️” to adjust the volume, brightness, contrast and saturability. Press the “📞” to talk with the outdoor station. Press “🔒” to unlock the door.
5. Press “📞” to finish talking and go back to standby mode.

Note: If 2 outdoor stations and 2 cameras are connected, press “

TRANSFER CALL AND INTERNAL CALL

To use this function, the indoor monitor should be connected to more than 2 stations.

TRANSFER CALL



Transfer the call to the other indoor monitor


Outdoor camera call indoor monitor
and conversation is underway



keep pressing transfer call button to
activate the function of **call transfer
to the extension which you choose**




▼ The according slave monitor
will get ring tone

Press the **talking** 
button on
indoor units




Talking
with visitor



The Electric
lock can
be opened 



End the call
and return to
standby mode. 

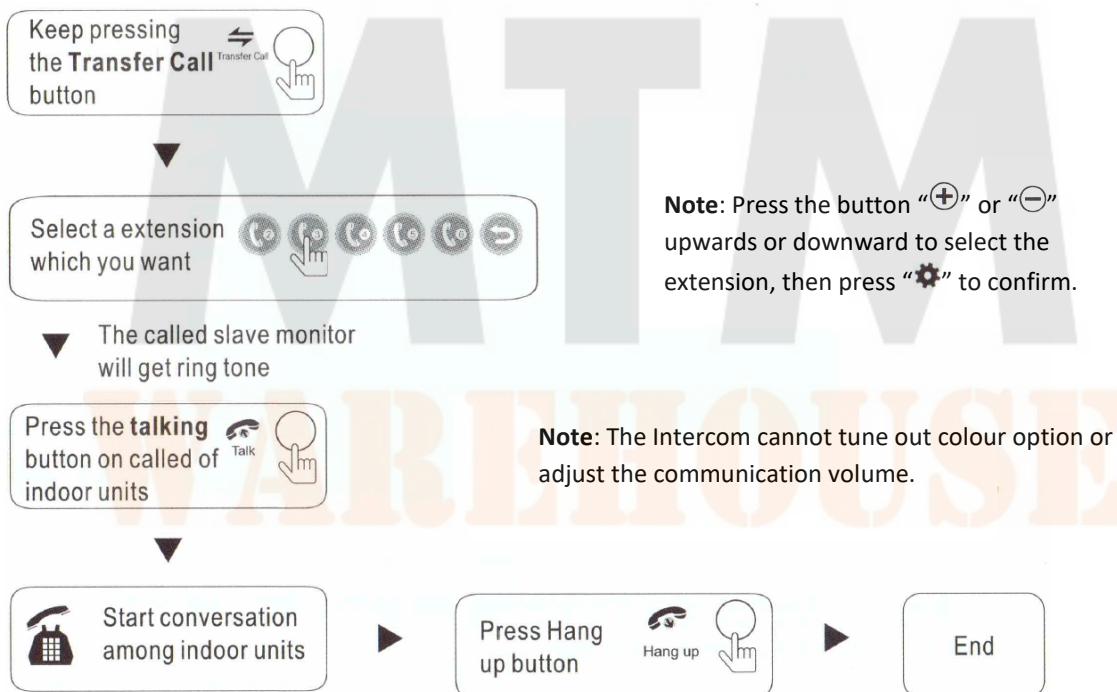
1. When the outdoor station calls the indoor monitor, the indoor monitor presses the “📞” to answer.
2. Press “🔄” to activate the transfer options, choose the slave monitor you want to transfer the call.
3. Press “📞” to talk with the outdoor station, press “🔒” to open the door, press “📞” to end the talk.

INTERNAL CALL

Internal call means the monitor can talk to the other indoor monitor when there is no call from the outside station. Using this function requires more than 2 indoor monitors to be connected.



Standby Mode

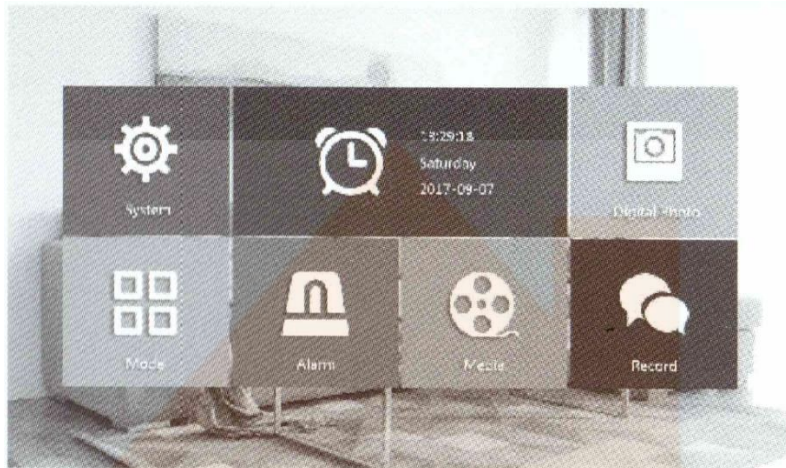


1. In standby mode, touch the screen to enter the main menu, press “🔄” to activate the transfer function. Choose the slave monitor you want to talk to.
2. Press “📞” to start the talk and press “📞” to end the talk.

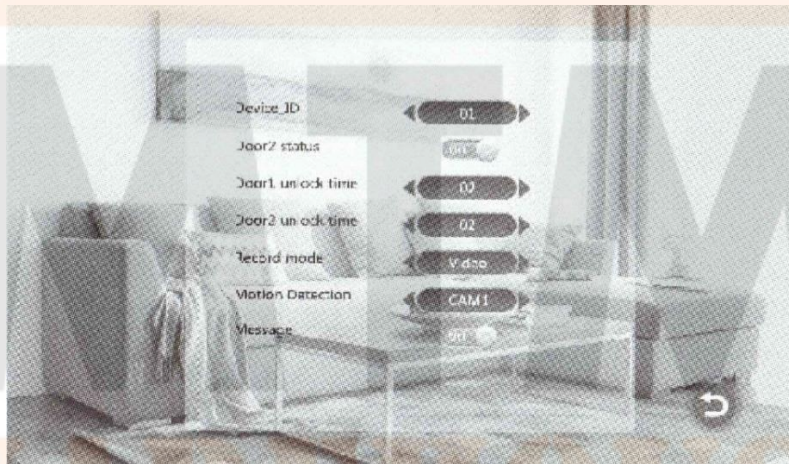
MOTION DETECTION

Switch ON the motion detection status. When the outdoor station or camera detects motion, it will start to recording or take a snapshot.

1. Enter the main menu then choose the mode setting, you can find the motion detection has 5 status options "Door1, Door2, CAM1, CAM2, OFF". The motion detection can only be on one of the 5 stats.



2. Motion detection comes with recording and snapshot as one of the two status options. Only one can be selected.



Note: The outdoor station motion detection recording time is 60 seconds (1 minute) by default and the camera motion detection recording time is 120 seconds (2 minutes) by default.

MENU OPERATIONS

STANDBY MODE

With two mode options: Clock and date mode or digital photo frame mode.

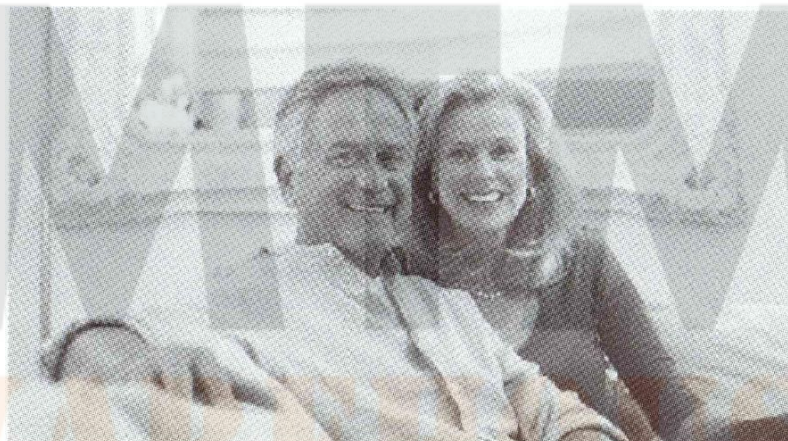
CLOCK AND DATE MODE



DIGITAL PHOTO FRAME MODE

When you switch to this option, motion detection is not supported.

System detect picture from the SD card (if there is no SD card, this function will not work).

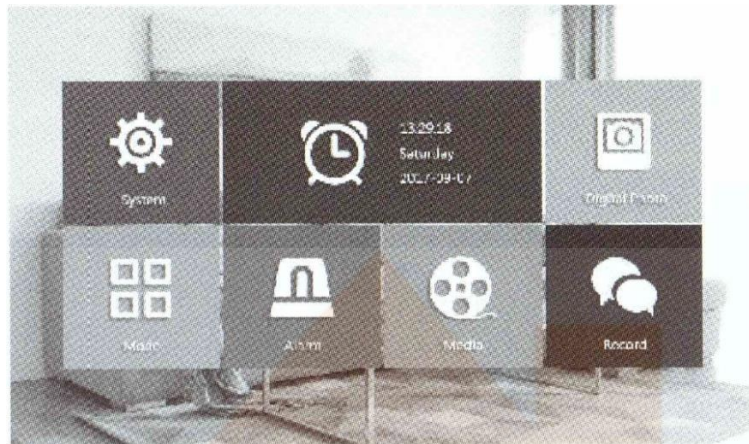


Note:

1. When you switch to digital photo frame function, monitor will detect pictures from the SD card and start to play them (Picture play time can be set to 1 – 10 seconds).
2. SD card should create a “Ring” and “User” folder. All the music should be placed in the “Ring” folder and all the pictures and videos in the “User” folder.
3. If there are unread messages, there will be a “mail” icon shown on the top left side of the screen.

MAIN MENU

On standby mode, touch the screen to enter the main menu. If there are no actions detected on the main menu, the system will automatically return to standby mode after 60 seconds (1 minute).



SETTING

On the main menu, press the system icon to show the following options: Language, Clock, System Information, Melody, Volume, and Return.



LANGUAGE

Select any type of language and confirm back to the main menu.



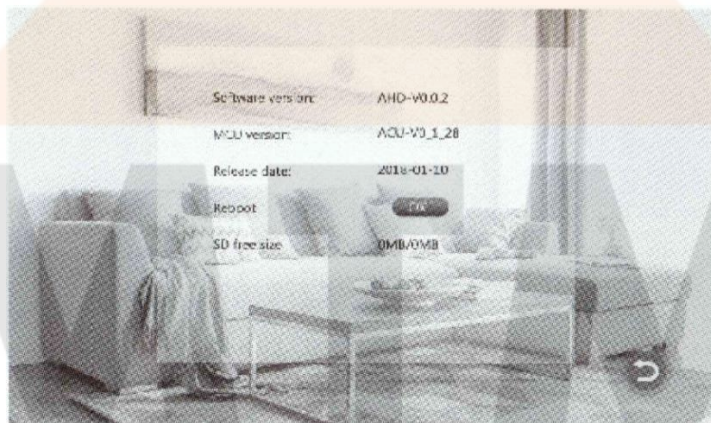
CLOCK

1. Change whether to display the clock on standby mode using the ON/OFF (**Note:** if the switch to display the clock is OFF, the digital photo frame will not work).
2. Type of date, with 3 types of formats: (YY-MM-DD), (MM-DD-YY) and (DD-MM-YY).



SYSTEM INFORMATION

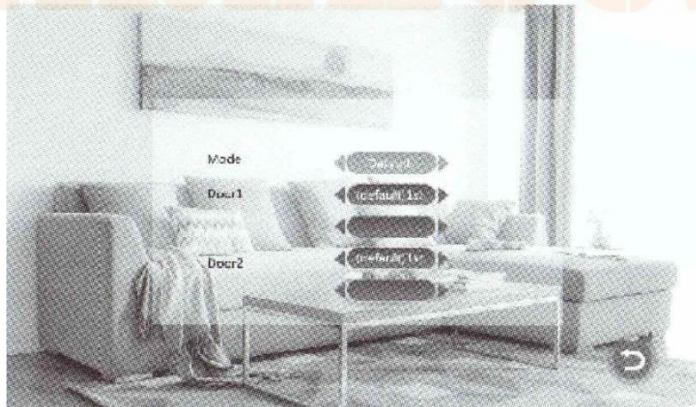
Display: FW version, MCU, FW release date, Restart the monitor, SD card rest capacity.



Note: supports up to 32GB on the Class 10 SD Card

MELODY

Enter melody menu to set the outdoor station ringtone.



[Mode]: Default and user defined have two modes. Default melody has 12 ringtones, user defined select from the SD card.

Note:

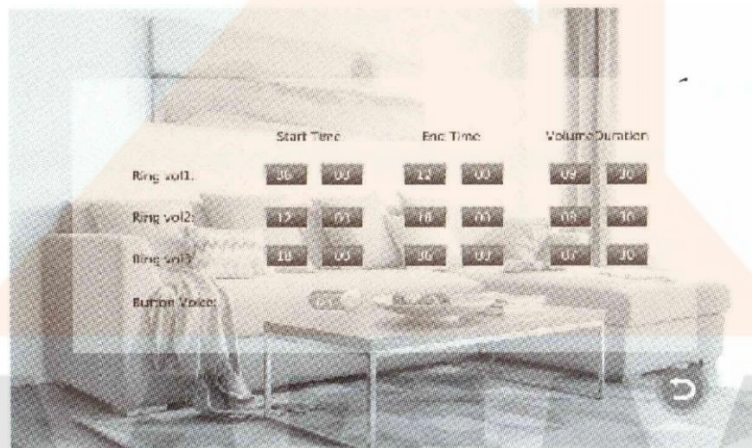
1. Make sure to create a folder with the name “Ring” in the SD Card and download the music inside, otherwise user defined ringtone will not work.
2. User defined ringtone will only 100 ringtones. Ringtones exceeding 100 will not show up.

[Return]: Back to the main menu.

VOLUME

Set the three times parameter.

Note: Volume setting menus control the monitor ringtone volume.

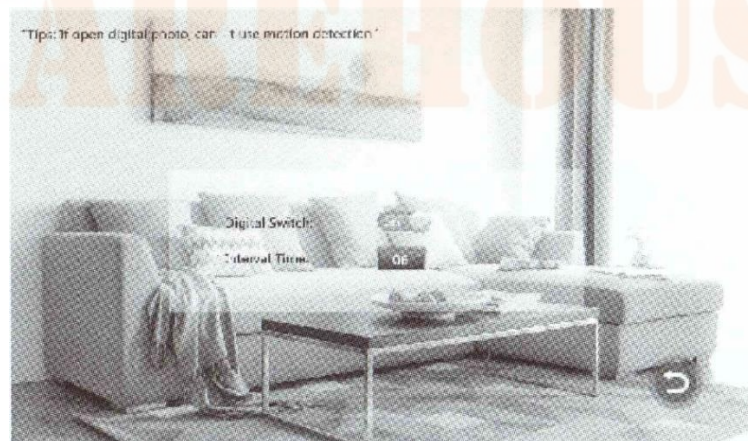


[Ring Vol 1-3]: with level options 1 – 10, time duration options from 10 – 45 seconds.

[Button Voice]: Switch between ON/OFF.

DIGITAL PHOTO FRAME

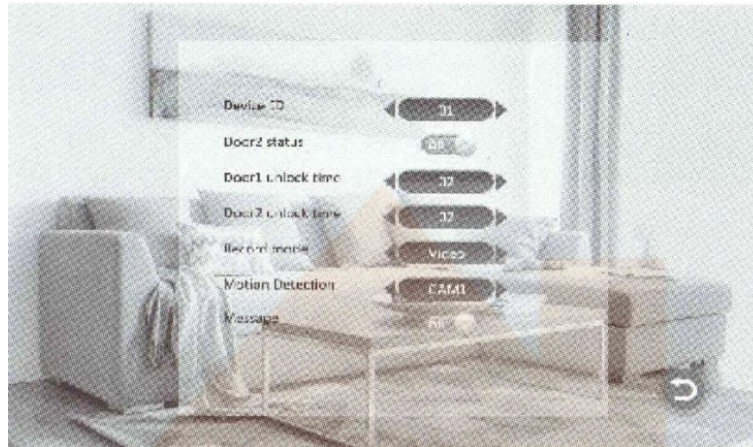
When this option is switched “ON”, during the standby mode, it will start to play pictures from the SD cards. Be sure that the clock is switched “ON” to use this option. Playtime for each picture is between 1 – 10 seconds.



Note: Motion detection will not work when the digital photo frame is switched on. In the SD card, you should create folder named "User".

MODE

Press the "Mode" button to enter the setting



[Device ID]: Indoor monitor ID number 01/02/03/04/05/06 displayed. "01" is the master monitor and "02-06" is the slave monitor.

[Door2 status]: Can be switched ON/OFF.

[Door 1 unlock time]: Unlock time from 2 – 10 seconds, default set to 2 seconds.

[Door 2 unlock time]: Unlock time from 2 – 10 seconds, default set to 2 seconds.

[Record Mode]: Record and snapshot mode options. If it is set to record, when a visitor calls from the outdoor station, it will start to record. If it is set to snapshot, when a visitor calls from the outdoor station, it will start to snapshot.

[Motion detection]: Door1, Door2, CAM1, CAM2, OFF options.

[Message]: Can be switched ON/OFF. If switched ON, the outdoor station will prompt a voice message "Please leave a message" when the monitor has no answer.

Note: make sure to insert an SD card so these functions can work and save recordings.

ALARM

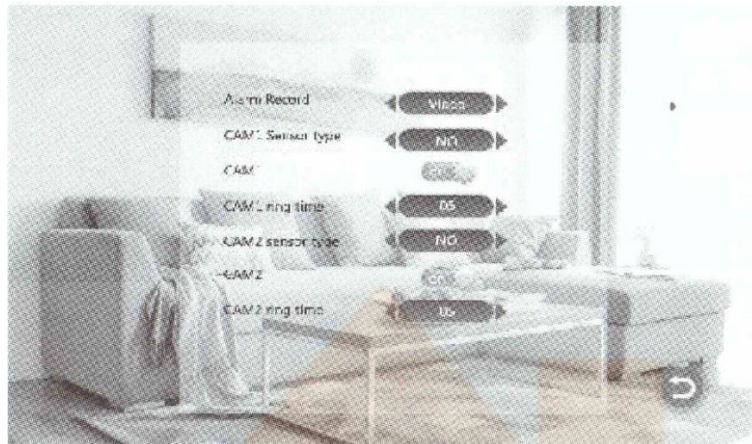
Enter alarm setting.

[Alarm record]: 2 types of options: recording or snapshot. If CAM1/2 detects an alarm, the monitor will start to record or snapshot pictures to the SD card.

Note: Alarm time by default is 120 seconds (2 minutes).

MEDIA

Enter media setting.



Media menu options are: Music, Movie, Pictures, file (Only if there is an SD card in the monitor can use media).

MUSIC

Enter music setting to select from the interface: music playlist, play mode and play status.



Note: In the SD card, there should be a folder named “Ring” and put all the music files inside.

1. On play music mode, swipe the right-side blank space up and down to adjust music volume.
2. During music being played, through different icon, switch play modes including once, shuffle, order, repeat once, list of circulation.

Note: During music being played, if there is an incoming call, the music stop and the call will take priority.

MOVIE

In media menu, choose “movie” to enter the movie list.

Note: In the SD card, there should be a folder named “User” where all the videos should be inside.

1. On play movie mode, swipe the right-side blank space up and down to adjust music volume.
2. During movie being played, if there is an incoming call, the movie will stop and the call will take priority.



PICTURES

In media menu, press “picture” to enter the list.



Note: it will only show “Photo” in the Picture folder.

FILE MANAGEMENT

In media menu, enter the “file management” list, then chose the SD card to enter the list of items in SD cards including DCIM, RING, and USER folder.



[DCIM Folder]: System auto set-up, all calling/motion detection/alarm videos or pictures will be kept inside.

[RING Folder]: All downloaded ringtones will be kept inside.

[USER Folder]: All downloaded movies and pictures will be kept inside.

Note: XXXX.IMG is a system program, if you want to update the firmware, please choose “YES”. During the update for the firmware, please keep the power on. After the update, it will reboot.

RECORDING CENTRE

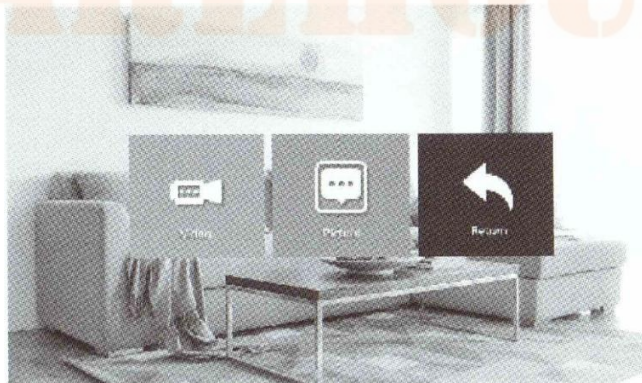
Enter recording centre to see list including: recording and picture information.



Note: it will only show “Photo” files inside the Picture folder.

RECORDING INFORMATION

In recording list, choose the file playback.



Note: recording list includes motion detection videos, alarm videos and calling videos.

PICTURES INFORMATION

In pictures list, choose pictures playback.



Note: picture list includes motion detection pictures, alarm pictures and calling pictures.

COLOUR SETTING

In standby mode, touch the screen to enter the main menu, press either Door1, Door2, CAM1 or CAM2 and select the colour setting.

Note: During monitoring, calling, talking, alarm mode supports colour setting.

[Volume]: adjustment level from 0 – 10, default set to 10.

Note: Volume setting only works for the indoor monitor talking volume.

[Brightness]: adjustment level from 0 – 50, default set to 25.

[Contrast]: adjustment level from 0 – 50, default set to 25.

[Saturability]: adjustment level from 0 – 50, default set to 25.

[Refresh]: When there is a mixed connection of PAL/NTSC, CCTV or outdoor station and CVBS/AHD CCTV camera or outdoor station; keep the power ON and do some connection changes for CCTV camera or outdoor station. If no images come up, please press the “R” to refresh the signal.



ALARM INSTRUCTIONS

When the terminal and GND are shorted, the alarm is activated and the speaker for the indoor monitor will ring for 120 seconds (2 minutes). During this time, press the “x” to stop the alarm and enter standby mode.

For the models with an SD card, it will simultaneously trigger recording and snapshotting (related to the system settings). The recording time is 120 seconds (2 minutes). During this time, press “x” to stop the alarm and enter standby mode.

CONNECTION DIAGRAM:

Be applicable to connect 2 Normally Closed (N.C.) or Normally Open (N.O.) alarm inputs.

2 camera channels for alarm inputs 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 an external power supply).

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

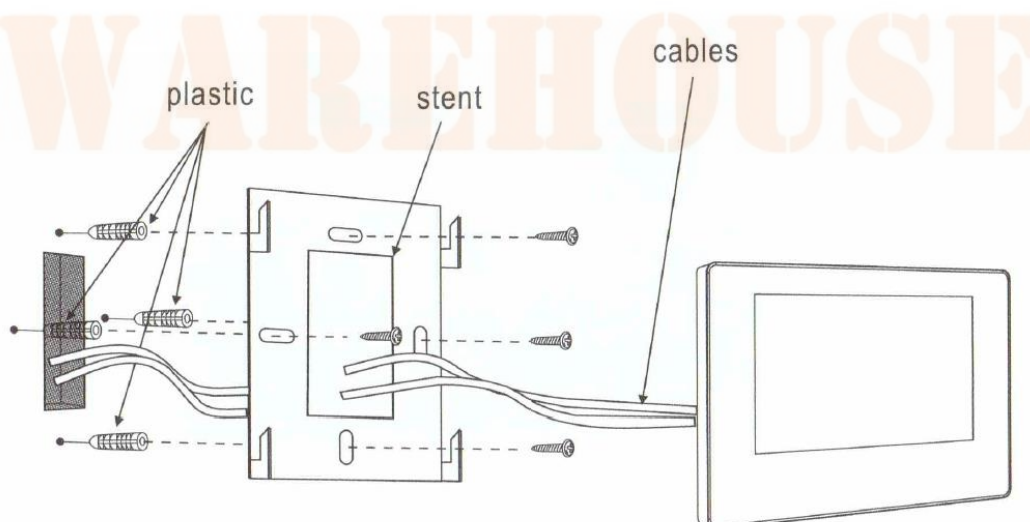
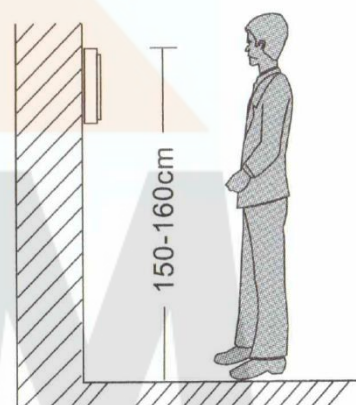
For Normally Open alarm inputs, when the GND and ALM are in the connection state, it will trigger the alarm.

For Normally Closed alarm inputs, when the GND and ALM are in the disconnection state, it will trigger the alarm. It applies to any alarm sensor.

INSTALL THE INDOOR UNIT

Note:

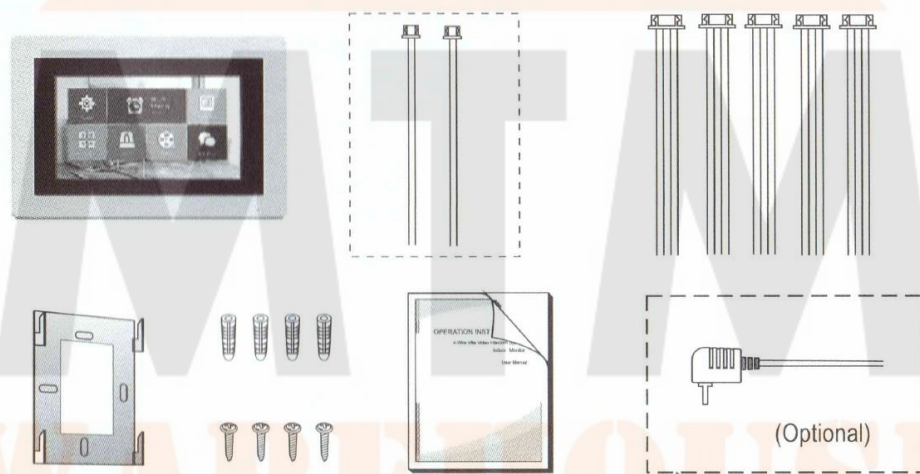
- Please be a good distance away from devices that emit intense radiation: TV, DVR, etc.
- Do not disassemble privately to avoid an electric shock.
- Do not drop, shake or knock the device, otherwise it will damage the elements.
- Choose the best position to install, the horizontal view is between 150 – 160cm.
- Please power down the device before installation.
- Keep it at a distance or more than 30cm from the AC power to avoid interference.
- Keep it away from water, magnetic field and chemicals



SPECIFICATIONS

Product Type	AHD 720p / 960p / CVBS Video Input
Monitor	7" TFT LCD
Resolution	7" (1024 x 600)
Standard	PAL/NTSC
Calling Mode	Two-way intercom
Power Consumption	Maximum 500mA / 600mA
Power Supply	External power DC 12V; Built-in power AC 100-240V
Working Temperature	0°C ~ +50°C
Installation Way	Surface Mounting
SD Card Max Capacity	32GB class 10TF (Micro SD) Note: must use ≥ Class 10
Input Video Signal	CVBS / AHD2.0
Motion Detection	Yes
System	Support 6 indoor monitor + 2 call panel + 2 camera
Function	Unlocking / Monitoring / Internal Calling / Transfer Calling / Recording
Advantage	With photo frame / MP3 & MP4 player / clock & voice message / background music

ACCESSORIES



KIT INCLUDES:

- Indoor unit ----- 1pcs
- Plastic Anchor ----- 4pcs
- Screws ----- 4pcs
- Bracket ----- 1pcs
- 4-Pin Line ----- 5pcs
- 2-PinLine (optional, please take actual model as quasi) ----- 1pcs or 2pcs
- User manual ----- 1pcs
- External power supply switch (optional) ----- 1pcs

If the indoor unit includes the internal power supply, there is no switch for the external power supply.



Address: 5 Lyn Parade, PRESTONS, NSW 2170

E-mail: sales@mtmwarehouse.com.au

Telephone: (02) 9607 4300

Statement

- If there is any doubt or uncertainty regarding the information in this manual, you can call our company for clarification.
 - There could possibly be 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 for your consideration.
- 