OPERATION INSTRUCTION

4-Wire Villa Video Intercom System Indoor Monitor

User Manual



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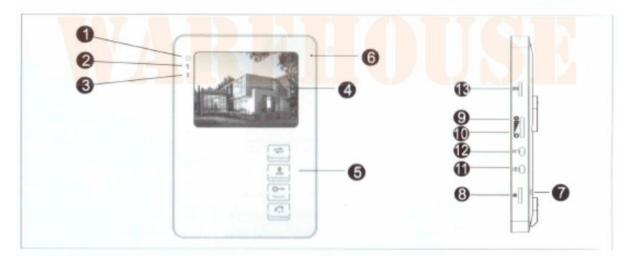
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DESCRIPTION ON INDOOR UNIT

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

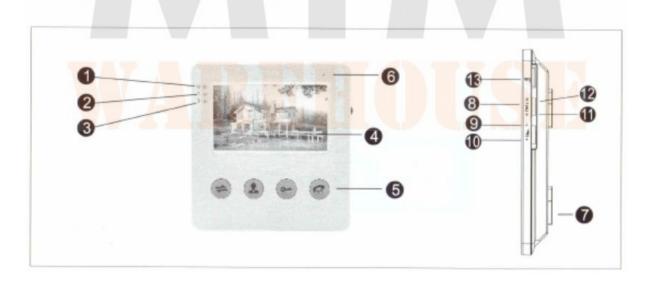


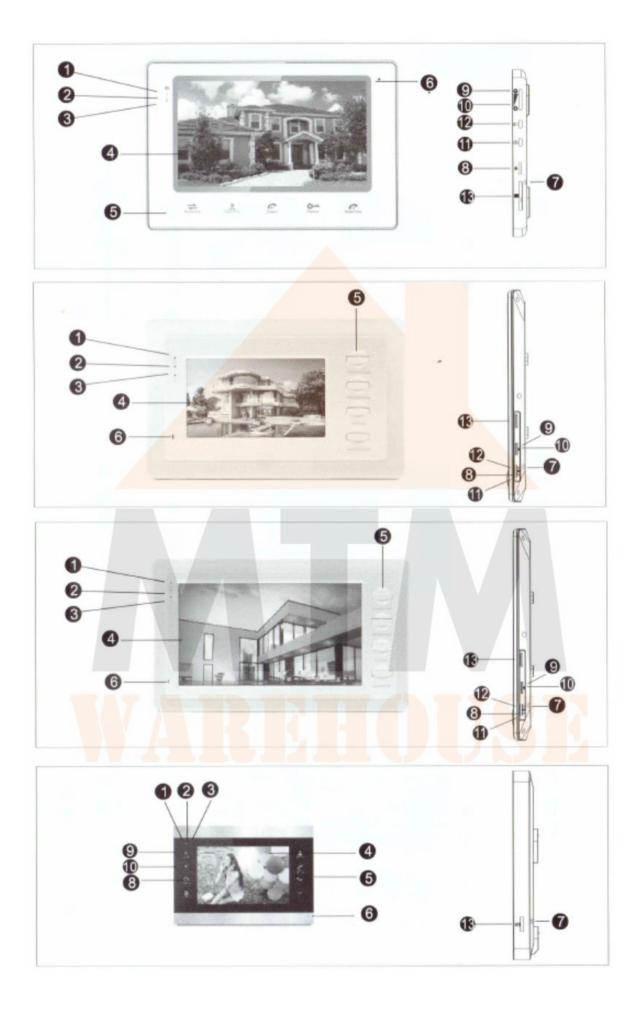


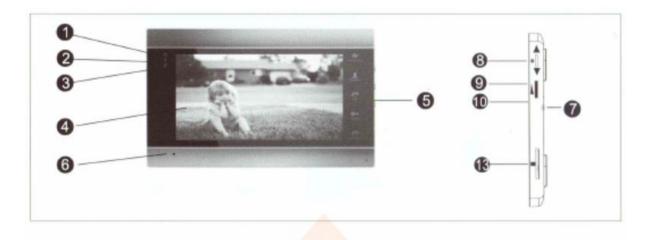




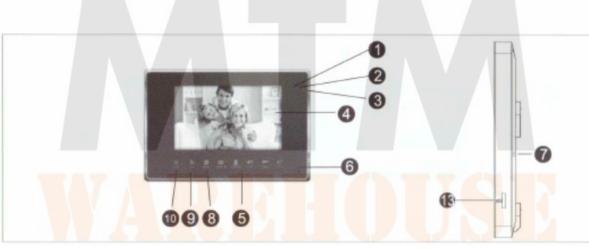


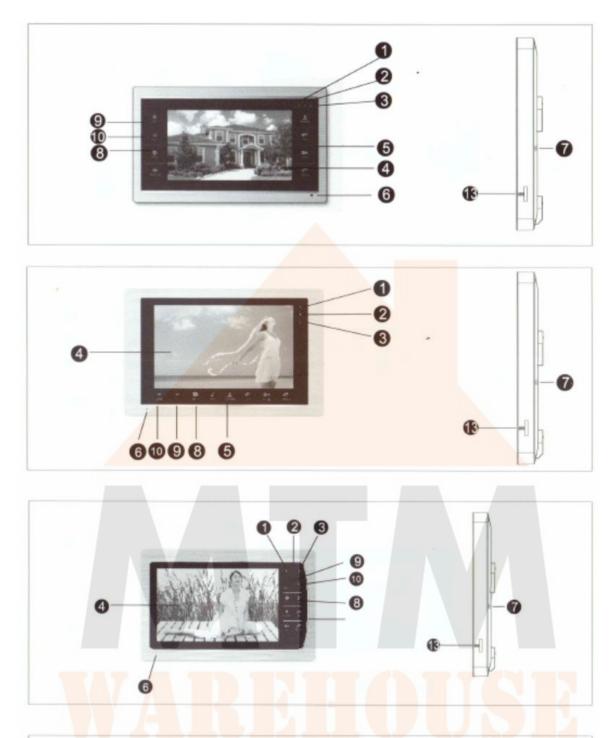


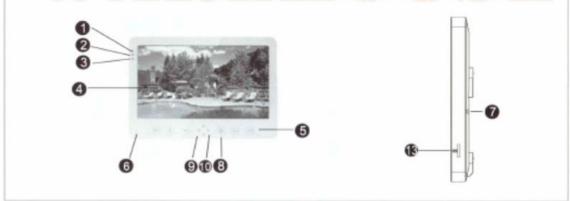












No.	Name	Descriptions
1	LED 1	Power LED
2	LED2	DOOR 1 LED
3	LED3	DOOR 2 LED
4	TFT display	View visitor's image displayed on the TFT screen.
5	Operation buttons	Human body sensor touch buttons.
6	Microphone	Transmit he voice o outdoor camera
7	Speaker	Sound from outdoor camera.
8	Settings button	Menu Setting buttons
9	Increase volume	Increase the ringer volume of the indoor device or increase volume for the indoor device during intercom.
10	Decrease volume	Decrease the ringer volume of the indoor device or decrease volume for the indoor device during intercom.
11	Snapshot	To captu <mark>re a frame of the video stream as a still</mark> photo
12	Record	Start manual record or stop manual record.
13	SD card slot	For the models with SD card, insert the SD card for recording and photograph.

DESCRIPTION ON LED INDICATOR

In the panel you can find out 3 LED indicators, with the detailed descriptions, please see them below.

(D LED 1

The power indicator of the indoor unit.

1 LED 2

The door 1 state lights, to door 1 working when the light is on.

2 LED3

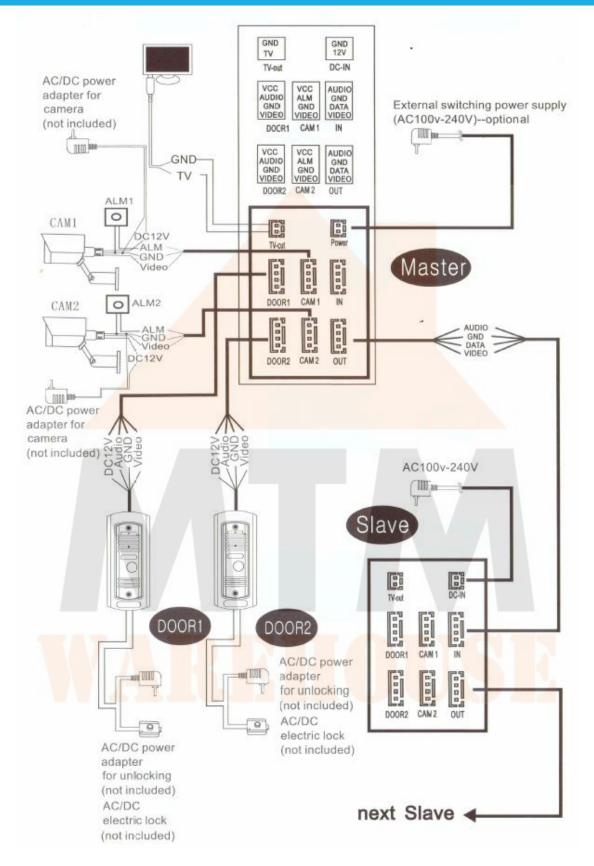
The door 2state lights, to door 2 working when the light is on.

DESCRIPTION	ON	SYMBOL
		JIMDOL

1	Transfer Call	Intercom call or transfer calls to another indoor unit
2	Monitoring	Watch the door ad camera images
3	O Unlock	Release the door lock
4	Talk	Call button
5	Hang up	Hang up button
6	Setting	 The button is a composite key, users can press the button, scroll the button upward or downward. For more details, please refer to the selection "Menu Operations".
		2. In standby mode, press the button once to quickly access the menu
		3. In the main menu settings, scroll the button upward or downward to select sub-menu, then press the button again
7	Ō	In monitoring or talking mode, press the button to capture a frame of the current video stream as a still photo.
8)=	In monitoring or talking mode, press the button to start manual record, and press it again to stop manual record.

WAREHOUSE

WIRING DIAGRAM



NOTE ON WIRING CONNECTION

- The electric lock/source/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 (NO) door unlocking method. It
 means that in the normal state the dry contact is opened so the lock is kept under constant close 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. If the indoor machine with a built-in power source, applicable to wide voltage range (AC 100V – 240V). Please first pull out the AC power plug before installation of device (as shown below).



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

 4C ordinary unshielded and shielded wire connection mode: Distance ≤ 28m (4*0.2mm²); Distance ≤ 50m (4*0.3mm²); Distance ≤ 80 (4*0.5m²)



Unshielded wire (\leq 50m)



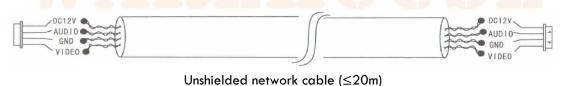
Shielded wire (\leq 80m)

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



(≤100m)

3. CAT5 or CAT6 network cable connection mode: (Not recommended)



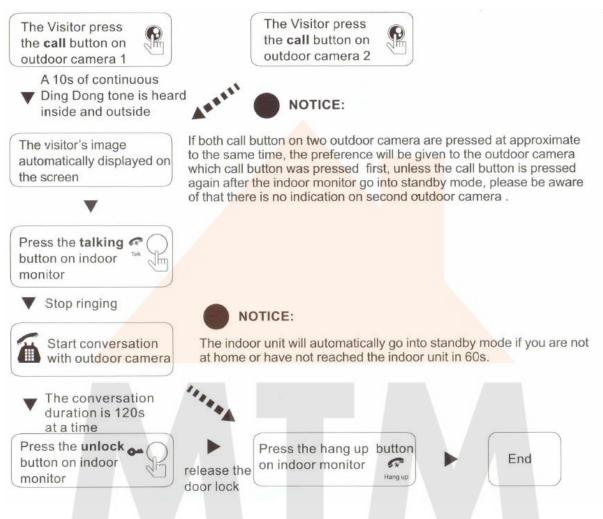
DC12V AUD 10 GND VIDEO Shield Shield

Shielded network cable (\leq 40m)

OPERATION INTRODUCTION

VISITOR CALL

Standby Mode



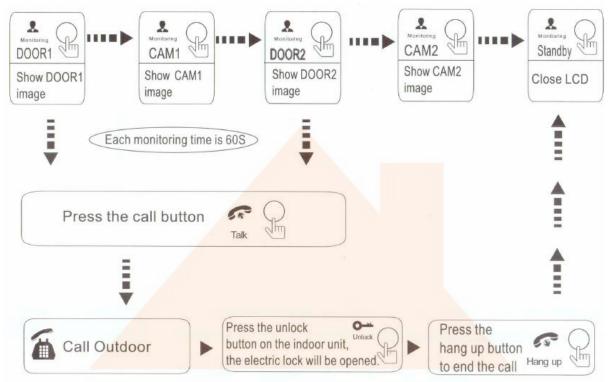
Notice:

- Both the visitor's voice and image will not be switched off within 20s of time span when the **unlock** button is pressed, this individualized function allow you to make sure whether the visitor already come in.
- For the models with SD card, when the doorbell record for the video model: From the start of a call, the whole process will be recording. If the user presses the button "¹⁰", the recording will be stopped manually.
- For the models with SD card, when the doorbell record for the snapshot mode: the whole process will be capture, user can press the button "^(a)" to capture an image.
- In the monitoring state: the machine can listen to the sound of outdoor machine. You can press the button """ " to unlock.

MONITORING

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

Standby Mode



Notice:

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

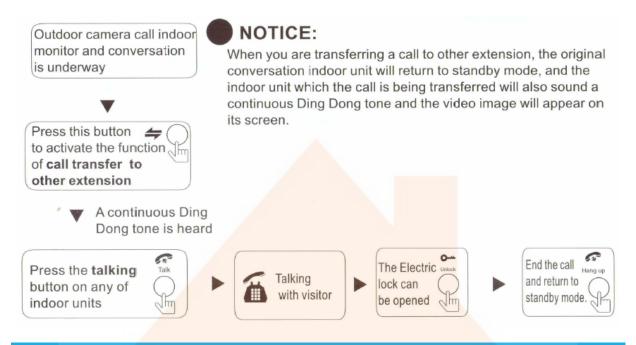
If you use two indoor units, you can also simultaneously start monitoring mode in the other outdoor unit. The same images are displayed on the screen of the different indoor unit.

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

For the models with SD cards; in monitoring mode, press the "III" or "II" to perform manual video/camera (pressing the button "III" can manually stop recording) to decide video or snapshot mode.

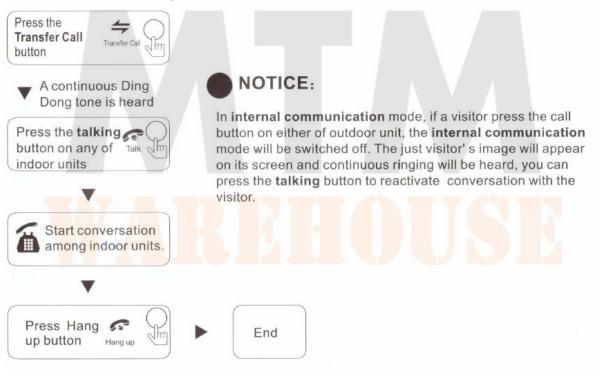
CALL TRANSFER TO OTHER EXTENSION

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



INTERNAL COMMUNICATION AMONG INDOOR UNITS

At least 2 indoor units is required.



MOTION DETECTION

 Scroll the button "*" upward or downward to move the cursor to the option "Mode", then press "*" to enter the "Mode" menu.



2. Scroll the button "* " downward to move the cursor to the option "Motion Detection", the motion detection has 4CH to choose: DOOR1, DOOR2, CAMERA1, CAMERA2; but also, not support 4CH works at same time.

Mode:	Master	
Door2 status:	On	
Doort unlock time:	02 Second	
Door2 unlack time:	02 Second	
Record mode	Record	
Motion Detection:	Doort	

- 3. Setup finished back to standby mode
- 4. On standby mode, when detect motion start to recording or snapshot.

LEAVE MESSAGE

1. Scroll the button "* " upward or downward to move the cursor to the option "Mode", then press "* to enter the "Mode" menu.



2. Scroll the button "* downward to move the cursor to the option "Leave Message".



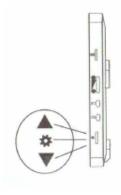
3. Setup finished back to standby mode.



4. On standby mode, when there is a message, you can see message reminding on the monitor. The video will be saved in SD card automatically.

MENU OPERATIONS

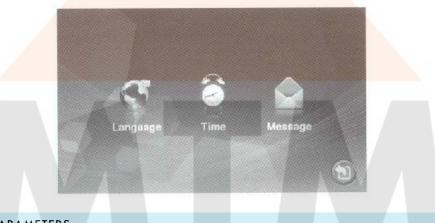
Notice:



The button "*" is a three-in-one key, but also composite keys: In standby mode, press the button "*" once to enter the main menu settings. In main menu settings, scroll the button "*" upward or downward to select submenu, then press "*" again to enter sub-menu. In sub-menu settings, press " " to select menu options, scroll "*" upward or downward to adjust values of each option, then press "*" to confirm. When select option "Return" on main menu, press the button "*" to exit menu interface, and the indoor device will be in standby mode.

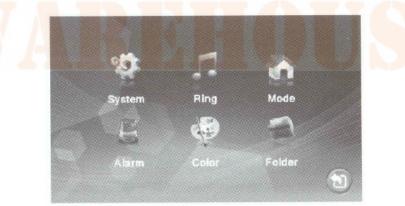
If users don't do any operation or enter any interface about the indoor machine, the indoor device will be in standby mode after 1 minute automatically.

In standby mode, press the button "*" to access the main menu interface, showing the main interface as shown below. On menus, scroll "*" upward or downward to move the cursor to the option "Return", and then press "*" to exit.



SET SYSTEM PARAMETERS

Scroll the button "*" upward or downward to mov the cursor to the option "Systems", then press "*" to enter the "System" menu. System setup includes: "Language", "Time" and "Information".

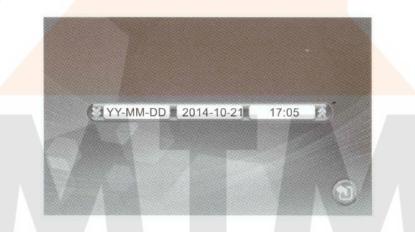


SYSTEM - LANGUAGE

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



SYSTEM - TIME



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

SYSTEM - INFORMATION

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

Software version: Release date:	1.1.1.5 2015-03-20	55 Stores	Software version: Release date:	1.0.1.1 2014-09-20
Release cate.	2010-00-20		nelease uale.	2014-09-20
Format SD		ACR ACCOUNTS AND A DESCRIPTION OF A DESC	Format flash	
Format flash	172		Update	
Backup pictures	here the			
Update				
Reboot	(max)			

[Format SD]: This option is for the models with SD card. Format SD card, please format SD card firstly before using. – Optional

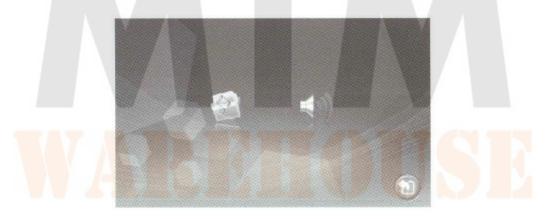
Note: The product only supports those SD cards more than Class10.

[Format]:	This option is for the model without SD card. Format built-in storage of the indoor device. — Optional
[Reboot]:	Move th <mark>e cursor to "second</mark> ", and press "🌞". It will pop-up a window,
[Update]:	choose "Yes" to restart the machine, choose "No" to cancel. For the models with SD card, users can upgrade the firmware of the device via SD card. – Optional
[Return]:	Exit the current menu

Note: During the system upgrading, don't remove the SD card or turn the indoor device disable. After completing the upgrade, the device will restart.

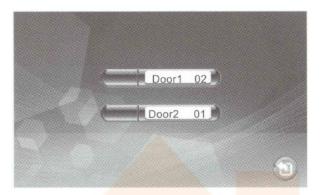
SET THE TONE PARAMETERS

On main menu, move the cursor to the option "Ring", then press "*" to enter the "Ring" menu. Ring setup includes: "Ring select" and "Ring volume".



RING - RING SELECT

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



[Door1]:	To set up th <mark>e doorbell tone of the o</mark> ut <mark>door camer</mark> a 1, a total of 12.
[Door2]:	To set up the doorbell tone of the outdoor camera 2, a total of 12.
[Return]:	Exit th <mark>e current menu</mark>

RING - RING VOLUME

On ring menu, move the cursor to "Ring volume" and press """ to enter the "Ring volume" menu to set up the ring volume. Users can set up different ring volume during three different time period, the vibration and ring time can be adjusted from 10s to 45s when calling.

[Ring Vol1]:	The volume level of Ring Vol1: 01-10
[Ring Vol2]:	The volume level of Ring Vol2: 01-10
[Ring Vol3]:	The volume level of Ring Vol3: 01-10

Note: The timing volume is connected with the manual volume, so please set the manual volume to the most level, then set the timing volume. The timing volume is the volume of internal ring chip, and manual volume is he total volume of the power amplifier.



SET THE MODE OF INDOOR UNIT

On main menu, move the cursor to the option "Mode", then press "* to enter the "Mode" menu.

	Mode:	Master
	Door2 status:	On
	Record mode:	Snapshot
	Door1 unlock time:	02 Second
	Door2 unlock time:	02 Second
		250 Annual and Anna Assance and an an an anna
[Mode]:		nd "Slave". "Master" indicates that the indoor or cameras. "Slave" indicates that the indoor b indoor unit.
[Door2 status]:	Enable or disable the prev	i <mark>ew</mark> Door2.
[Record mode];	-	nd "Snapshot". "Record" indicates that the
		art record automatically when a visitor presses oor camera. "Snapshot" indicates that the device
		rage will capture a frame of the video stream
		presses the call button on the outdoor camera.
[Door1 Unlock Time]:	From 02 seconds to 10 sec	onds
[Door2 Unlock Time]:	From 02 seconds to 10 sec	onds
[Return]:	Exit the current menu	

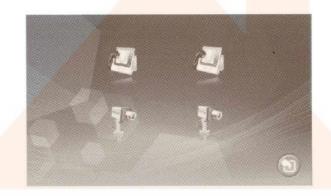
SET THE ALARM PARAMETERS

On main menu, move the cursor to the option "Alarm", then press "*" to enter the "Alarm" menu.

	Sensor type:	NO
	CAM 1	Enable
	CAM 2	Enable
	CAM 1 ring time:	00 Second
	CAM 2 ring time;	00 Second
	Alarm record:	Record
[Sensor type]	status explanations). W	orresponds to an I/O status (See the following /hich means that when an alarm is triggered, it will ing channel to start alarm recording or capture a
I/O Status types:		
NO:	"Normally Open", it means that in its normal state, the sensor is kept under constant low voltage. If the output voltage changes from low to high, then	
NC:	the alarm will be triggered. "Normally Closed", the normal state of the sensor is under constant high voltage. If the output voltage changes from high to low, then the alarm will be triggered.	
Disable:		if external sensor alarms are not in use.

[CAM1]:	Enable or disable the preview of camera 1.
[CAM2]:	Enable or disable the preview of camera 2.
[CAM1 ring time]:	The alarm ring time of camera 1 if camera 1 has been triggered by activity detected by the sensor, values can be set from 0-30 seconds.
[CAM2 ring time]:	The alarm ring time of camera 2 if camera 2 has been triggered by activity detected by the sensor, values can be set from 0-30 seconds.
[Alarm record]: [Return]:	Options include "Record" and "Snapshot". "Record" indicates that when an alarm is triggered, it will activate the corresponding channel to start alarm recording. "Snapshot" indicates that when an alarm is triggered, it will activate the corresponding channel to capture a picture of the current video stream as a still photo. Exit the current menu.
	LAIT THE COTTENT MEND.
SET THE COLOUR PARA	METERS

On main menu, move the cursor to the option "Colour", then press "* to enter the "Colour" menu.



On the colour menu the video colour of Door1/Door2/CAM1/CAM2 attributes can be adjusted for the best image quality. Scroll the button "*" upward or downward to move the cursor to the option "Door1" or "Door2" or "CAM1" or "CAM2", then press "*" to enter the corresponding menu to adjust values of brightness, contrast and chrome depending on the actual conditions.





Brightness, values can be set up from 0 to 50, default as 25.

Contrast, values can be set up from 0 to 50, default as 25.

Chrome, values can be set up from 0 to 50, default as 25.

[Return]

Exit the current menu

PLAYBACK

On main menu, move the cursor to the option "Files", then press "*" to enter the "Files" menu. Options include "Record files" (for the models with SD card) and "Snapshot files" (for the models with SD card or built-in storage



FILES - RECORD FILES (OPTIONAL FOR THE MODELS WITH SD CARD)

On "Files" menu, scroll the button """ upward or downward to move the cursor to the option "Record Files", press the button """ to enter the "record files list". Scroll the button """ upward or downward to move the cursor to select file to playback, a red list indicates that the list has been selected, press the button """ to playback. During playback scroll the button """ upward or downward, it will switch the current video to the last file or the next file, and press the button """ again to exit. Move the cursor to the option "Return" and press """ to exit the current menu.

20141021 - 152418 20141021 - 152402	0009 0008		
20141021 - 152400	0007		
20141021 - 143001	0006		
20141021 - 142954	0005		
20141021 - 142925 20141021 - 142924	0004		
20141021 - 142924	0003		
 20141021 - 142720	0001		
		6 A A	

FILES - SNAPSHOT FILES (OPTIONAL, FOR THE MODELS WITH SD CARD OR BUILT-IN STORAGE)

On "Files" menu scroll the button "" upward or downward to move the cursor to the option "Snapshot Files", press the button "" to enter the "snapshot files list". Scroll the button "" upward or downward to move the cursor to select file to view, a red list indicates that the list has been selected, press the button "" to playback. During playback scroll the button "" upward or downward, it will switch the current picture to the last file or the next file, and press the button "" again to exit. Move the cursor to the option "Return" and press "" to exit the current menu

20141021 - 20141021 - 20141021 - 20141021 - 20141021 -	152403 142957 142911	0005 0004 0003 0002 0001		
	001	/ 001	6	3

ALARM INSTRUCTIONS

CAM1 and CAM2 of this production have each an alarm function. When the trigger terminal and GND is shorted, the alarm is activated, the speaker of the indoor unit rings and continues 120s, during this

time, click "Hang up" to stop alarming and enter the standby mode.

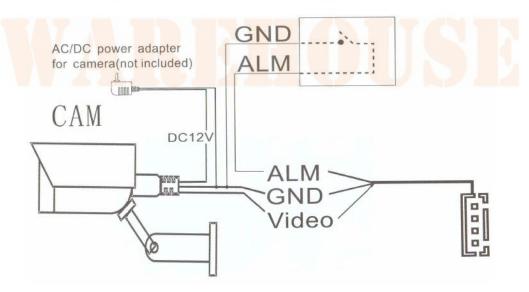
For the models with SD card, simultaneously, triggers recording or snapshotting (related to the system

settings). The recording time is 120s, during this time, click "Hang up" to stop alarming and enter the standby mode.

CONNECTION DIAGRAM:

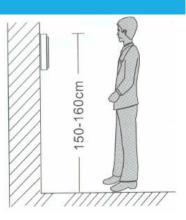
Be applicable to connect 2 normally close (NC) or normally open (NO) alarm inputs.

- 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

- Please be far from the devices with intense radiation: TV, DVR, etc.
- Do not disassemble privately to avid the 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 150cm.
- Please power down before installation.
- Keep at a distance of more than 30cm with AC power to avoid interference from the water, magnetic field and chemicals.



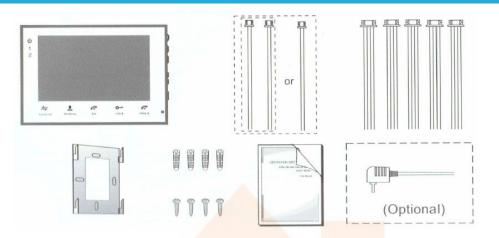
plastic stent view of the stent of the sten

How to install the indoor unit

SPECIFICATIONS

Display	4"; 4.3", 7"; 10.1" TFT LCD Screen		
Definition	4" (320 x240), 4.3" (480x 272), 7" (800x480), 10.1" (1024x600)		
Standard	PAL/NTSC		
Calling mode	Two-way conversation		
Calling time	120s		
Standby current	Maximum 250MA		
Work current	Maximum 600MA		
Power Supply	External switching power supply (DC12V)—Optional		
Work temperature	0°C ~ +50°C		
Installation way	Surface mounting		
Built-in Storage	(Depends on goods)		
Picture format	JPEG standard format		
Extension memory (Optional)	SD card (maximum 32GB) (≥Class 10)		

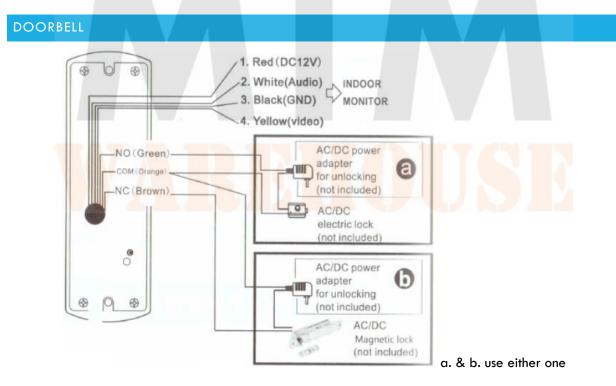
ACCESSORIES



INDOOR UNIT

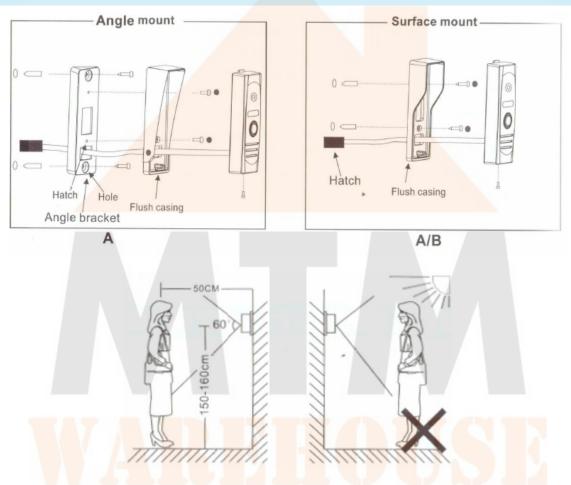
٠	Indoor unit	1 рс
•	Plastic anchors	4 pcs
٠	Screws	4 pcs
•	Bracket	1 рс
•	4 Pin line	5 pcs
•	2 Pin line (opt <mark>ional, please take actual model as quasi)</mark>	1 or 2 pcs
•	User manual	1 рс
•	External power supply switch (optional)	1 рс

If the indoor unit includes the internal power supply, there is no external power supply switch of the picture on the above.



SPECIFICATIONS		
Camera sensor	1/4; 1/3-inch pinhole CCD/COMS camera	
View angle	60° / (120°)	
Definition (Horizontal) (mm)	420/480/600/700/800 TV Line	
LEDs for night	IR LEDs (60°)	
Power consumption	150mA max.	
Power supplier	Supplied from indoor unit	
Operation temperature	-40° ~+50°	
Installation	Surface/flush mount	

INSTALLATION OF OUTDOOR UNIT



- Avoid installation of the device near strong radiation e.g. AC motor ad lift.
- Maintenance should be complied with qualified technician.
- Avoid hard shakes, beating and collision, otherwise the internal component may be damaged.
- Do not expose the outdoor camera under strong light or sunshine.
- Do not install the outdoor camera in the environment e.g. direct sunlight, contact with rain, high temperatures, high humidity, full of dust and chemical corrosives.
- Select the most suitable position where the camera is located at user's eye level.
- Switch off the power supply before installation.
- Keep more than 30cm away from the AC power supply to avoid external interference.
- Keep it away from water and magnetic field.

Address: 5 Lyn Parade, PRESTONS, NSW 2170

E-mail: <u>sales@mtmwarehoues.com.au</u>

Telephone: (02) 9607 4300

Statement

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