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MICRON HOME INTERCOM SYSTEMS

7-Inch Touch Screen Monitor

IM4TS / IM4TSW

USER MANUAL

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USER MANUAL

Micron 7 Inch Touch Screen Monitor

IM4TS – Touch Screen

IM4TSW – Touch Screen – WiFi

Information & specifications contained in this manual maybe changed for the benefit of product development and improvements.

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WARNING AND CAUTION

Please make sure to follow the instructions to prevent any product danger or product failure.

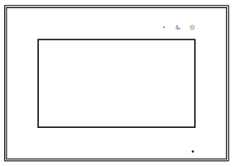
	Do not attempt disassemble or repair. This product requires a qualified technician
	Do not install the product in a hot or humid place
	Do not place heavy objects on the product
	Do not use solvents or detergents to clean the screen.
	Do not attempt any connections whilst the power to the system is on
	Make sure to clean the monitor with a dry cloth to prevent any breakdown or electric shock
	If the product produces excessive noise or smoke, immediately turn off the power, and then contact your service technician

	Make sure that dust does not build up on the product
	Make sure to prevent foreign objects from entering the product
	Do not install in direct rays of the sun or heating devices
	Install the product on a flat and stable surface
	Do not remove the micro SD card (if Fitted) when recording, this generally will cause loss of data

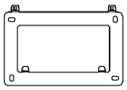
1. Features and Functions

- 7” capacitive touch screen monitor,1024*600 resolution
- 1080P/720P/CVBS display & record.
- Built-in WiFi module supports local and remote control (IM4TSW only)
- GUI menu support sliding operation
- Connect up to 2 door stations, 1 master monitor + 3 slave monitors
- Control of automatic gates or Locks (will require additional power supplies)
- Inner flash memory, support micro SD card
- Auto & manual video/picture recording
- Monitor to Monitor Intercommunication
- Support call forwarding function
- Support motion detection from door station
- Scheduled do not disturb function
- Screensaver function (date & time display in standby mode)
- Selective 16 ringtone melodies
- Adjustable ringtone volume & talking volume
- Adjustable brightness, color and contrast

2. Packing Contents

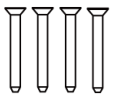


Monitor



Wall bracket

User manual



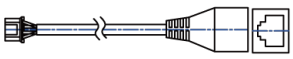
M4*35mm
Mounting screw

Plastic wall plugs

Warranty card

1*2 pin power cable

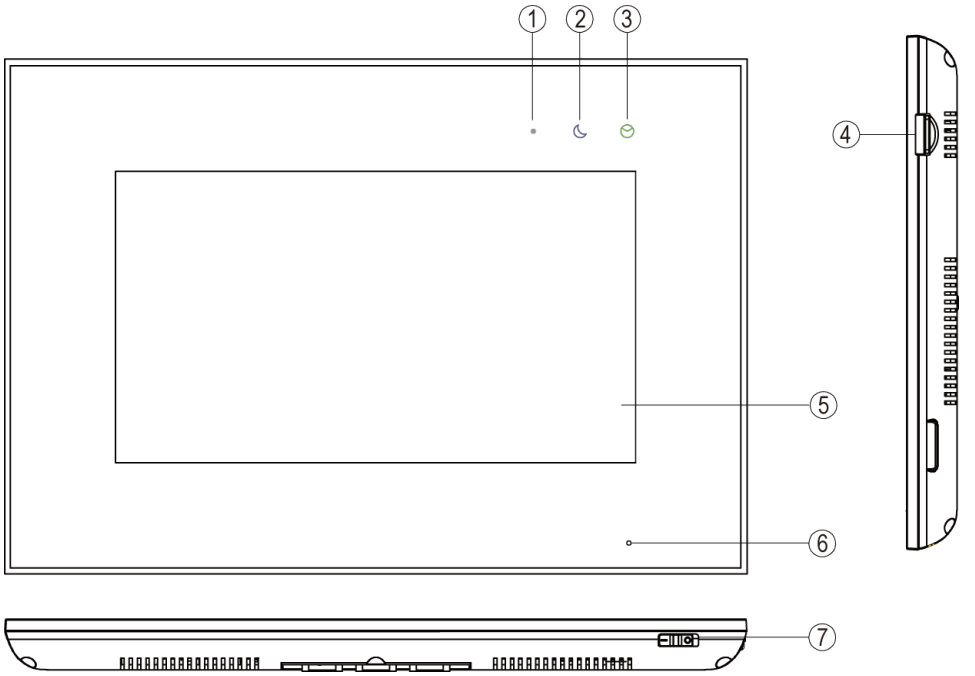
4*4 pin wiring cable



4 pin connector to RJ45 cable
(only for IM4TSW)

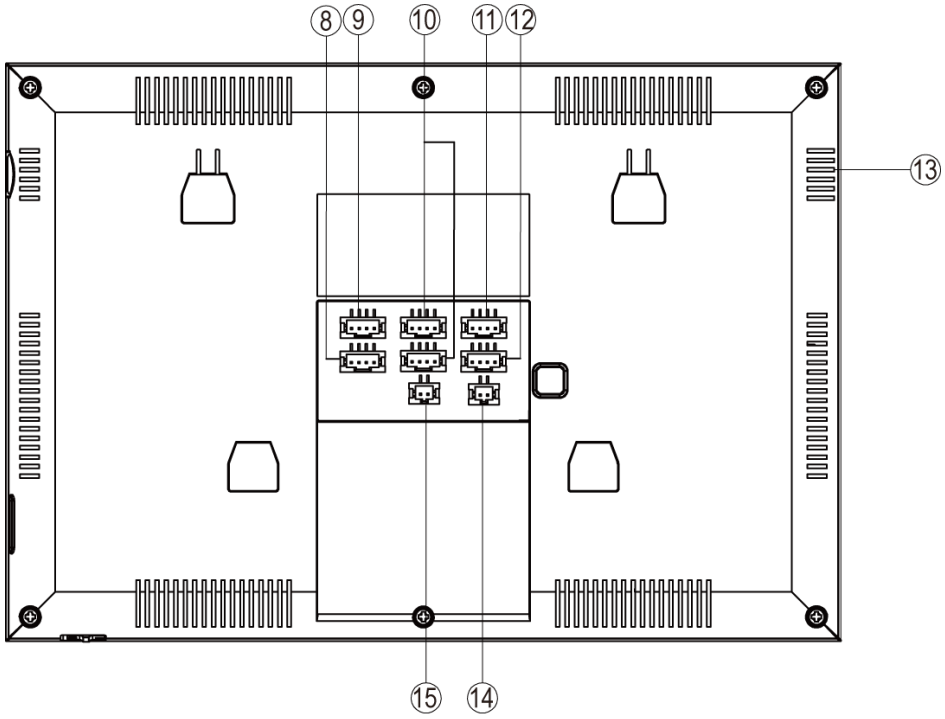
3. Indicators and Connection details

3.1 Front & Side



NO.	Part Name	Description
1	Power Indicator	White led -- Monitor power is on
2	Do-not-disturb/Leaving Mode Indicator	Purple led Solid -- Mute function is enable Purple led flashing -- Leaving mode enable
3	Message Indicator	Green led flashing -- New Picture taken
4	Micro SD Card Slot	Micro SD card slot
5	Screen	7” digital touch screen
6	Microphone	Microphone to talk to the door station
7	Power Switch	On/Off Switch for Monitor

3.2 Rear & Bottom

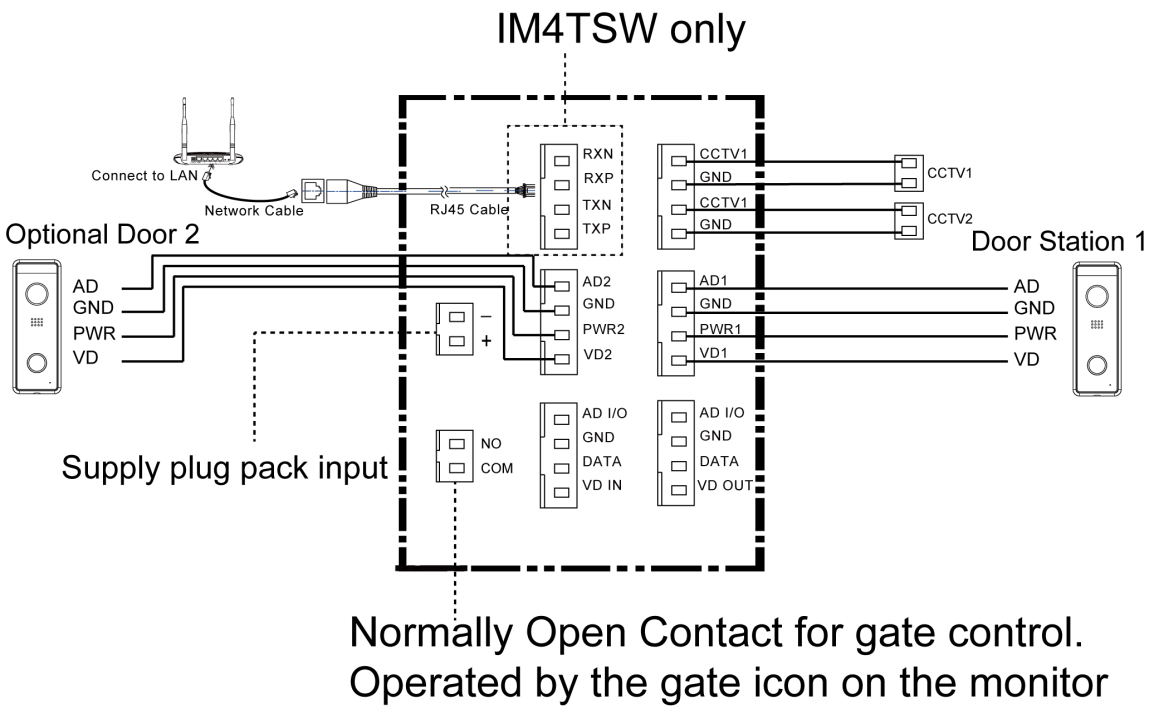


NO.	Part Name	Description
8	LAN	Connection for home router (IM4TSW only)
9	CCTV Input	Connection for CCTV 1 & CCTV 2
10	Video Input	Connection for door station 1 & door station 2
11	Intercom Output	Connection In for additional Monitor
12	Intercom Input	Connection Out for additional Monitor
13	Speaker	Monitor Specker
14	Relay Output	Normally Open Relay output
15	DC Power Input	Power supply input

4. Connection Diagram

4.1 Wiring Diagram

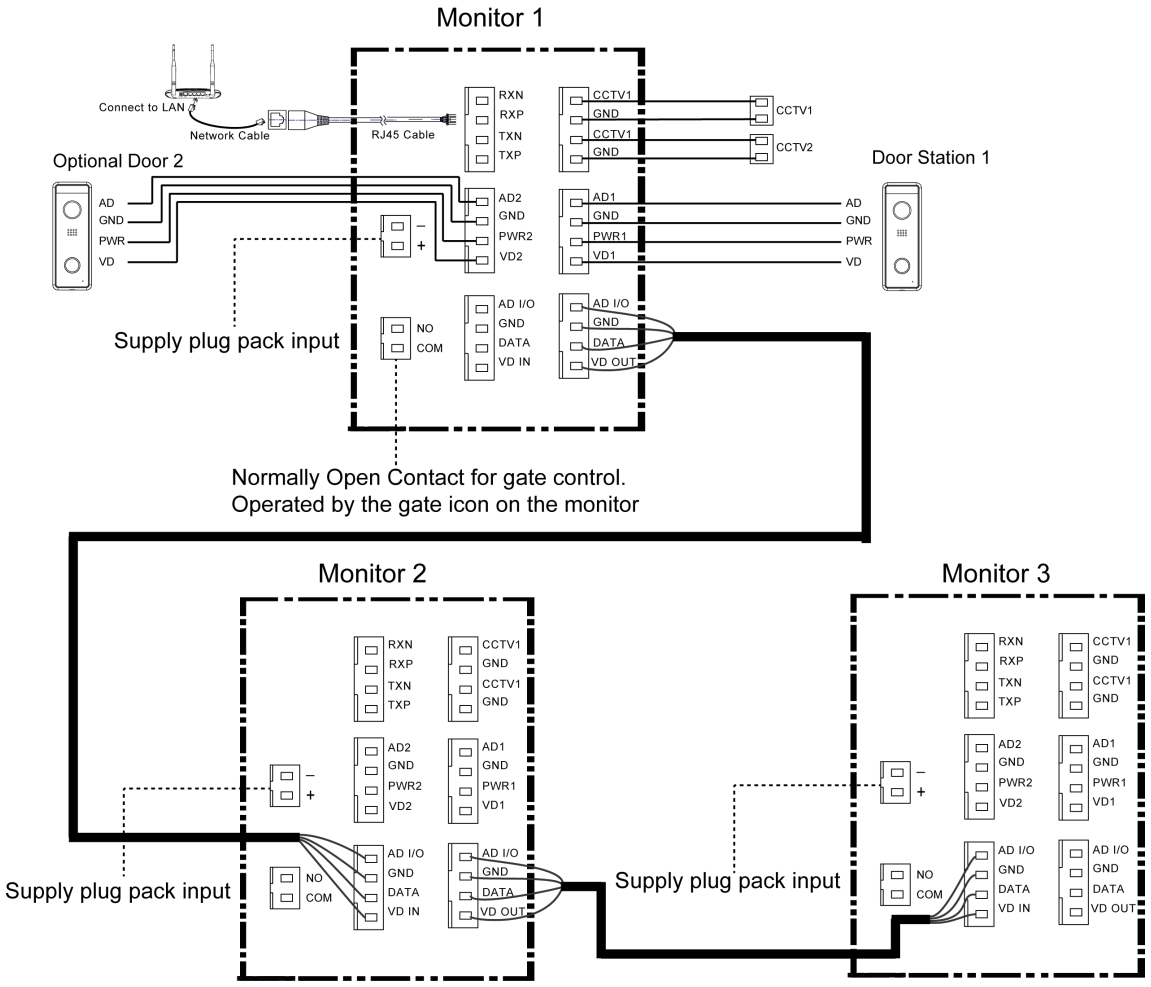
Wiring Example of Intercom with one monitor and optional 2nd door station.



Note: Total Maximum Cable Distance is 100 meters.

Wiring Example of Intercom with one monitor, 2 Slaves and optional 2 door stations.

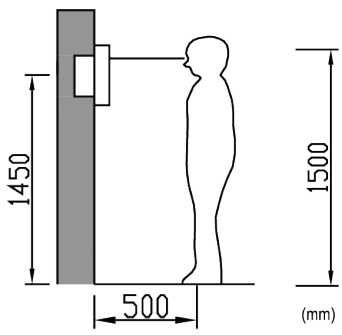
MAXIMUM CABLE DISTANCE IS 100 METERS

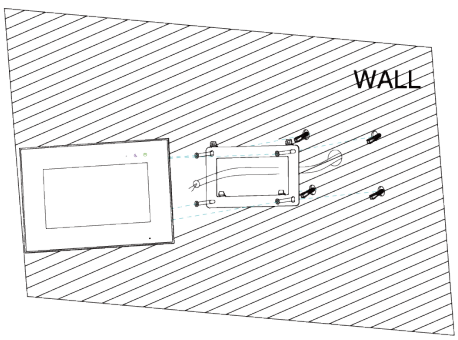


Note：

1. Normally Open Contact can only switch 100mA and only operates from the gate unlock button.

5. Monitor Installation





Standard monitor installation height is about 1,500mm where screen center is at eye level. The wall bracket centre is 1,450mm above ground level.

6. Operation Description

6.1 Main Screen

Touch the screen anywhere in standby mode, the main page will appear displaying the below icons.

※ **Icon Definition**

Icon	Description
	Monitor/watch through the door station
	Picture Memory
	Monitor to Monitor Intercommunication
	Enter the main setting screen
	Turn the monitor off

6.2 Visitor Call

When door station calls, the visitor's image will be displayed on the monitor screen you can press icon to talk with the visitor. Press it again to terminate the talk.

※ **Icon Definition**

	capture a picture		record a video
	switch between door stations		talk
	release the electronic lock		call transfer manually
	adjust display parameters(brightness/color/contrast) and volume		
	open the automatic door		back to main screen

During the conversion with the door station:

• You can record a video or capture a picture from the calling door station automatically depending on the system setting.

• You can press icon to switch to another door station, if fitted and the current conversation will be terminated.

• You can press icon to transfer the current call to other monitors.

6.3 Monitor Function

When you press the icon on main screen, the system will enter monitor mode, and will show image from the corresponding door station.

Note:

• The icon will be disabled in monitor mode.

6.4 Multimedia

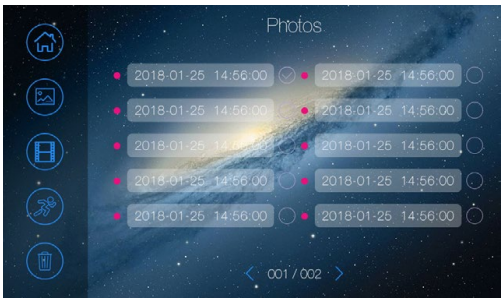
6.4.1 Image & Video Storage

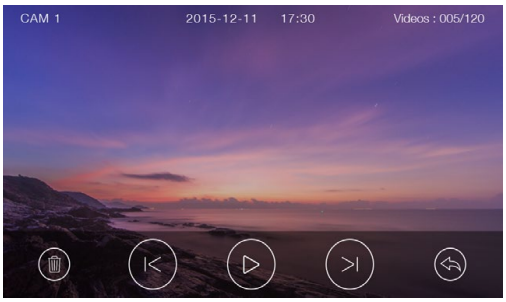
The monitor can record images and videos with inner flash storage.It also supports mirco SD card. Max 128GB **Not Supplied**

When the memory is full, the newest picture/video will automatically overwrite the oldest picture/video.

6.4.2 Image & Video Review

Press icon on main screen, you can review the pictures and videos that have stored in memory. The picture/video list with a red circle means that the picture / video has not yet been viewed. You can press the corresponding list to review the saved pictures /video.





Note:

• Micro SD card must be formatted by the monitor to function correctly.

• Micro SD card is excluded in the package.

• The videos include both the video recorded during monitoring and recorded during motion detection.

6.4.3 Voicemail Function

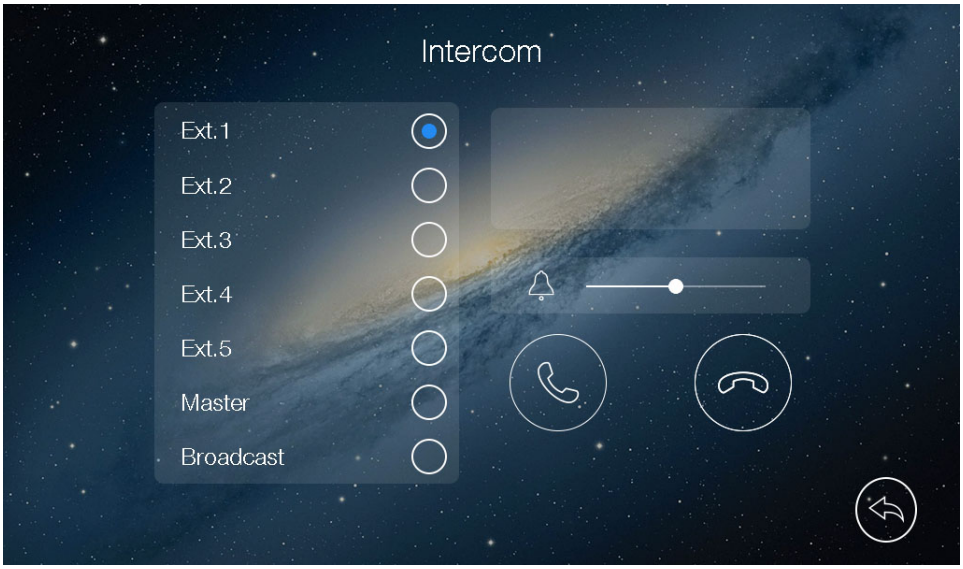
Press icon on main screen and enter Voicemail setting page, press icon , and then you can record and review messages.

Remark:

• The monitor support up to two voice messages for vistitor. When full, the newest message will automatically overwrite the oldest message.

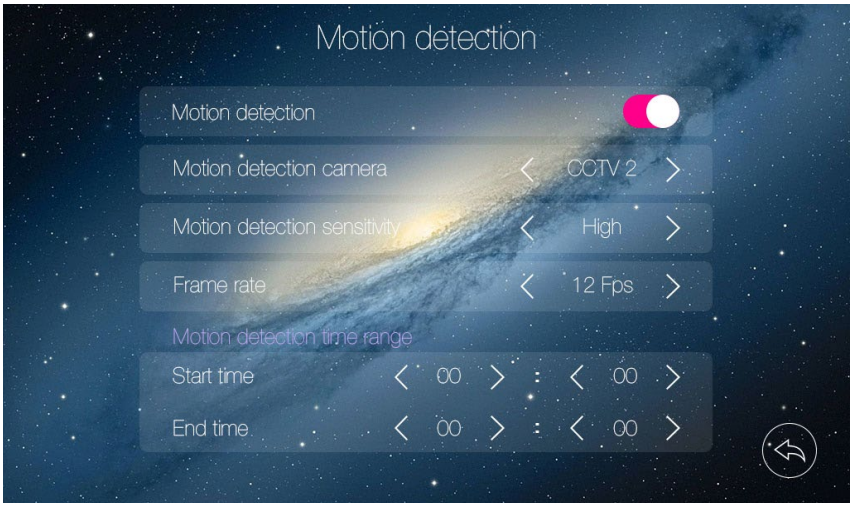
6.5 Intercom Function

Press the icon on main screen, choose the monitor you want to call, and then press icon to start the call, and then you can talk with the corresponding monitor if the called monitor answers the call. The talking and ringtone volume for intercom can be adjusted.



6.6 Motion Detection

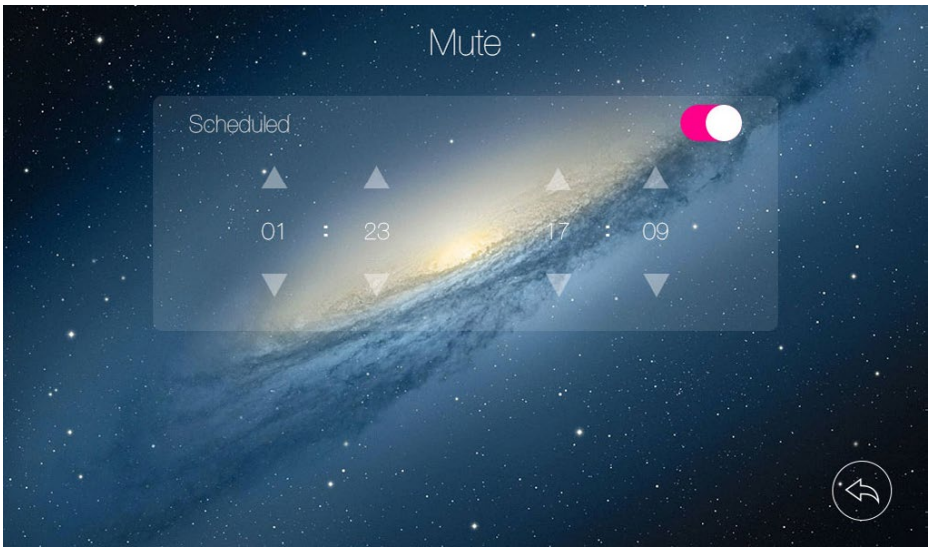
The monitor supports motion detection from door station. You can enable/disable the motion detection function, set one door station as default for motion detection, set the sensitivity and frame rate and the time range of motion detection in setting page.



6.7 Scheduled Do Not Disturb Function

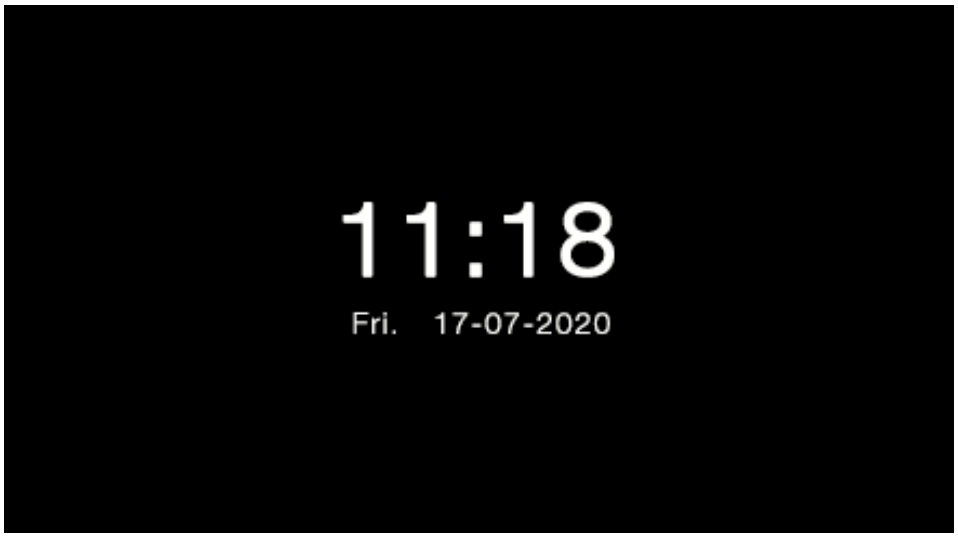
The monitor supports scheduled do not disturb function. You can enable/disable the

mute function and set the time range of do not disturb mode in setting page.



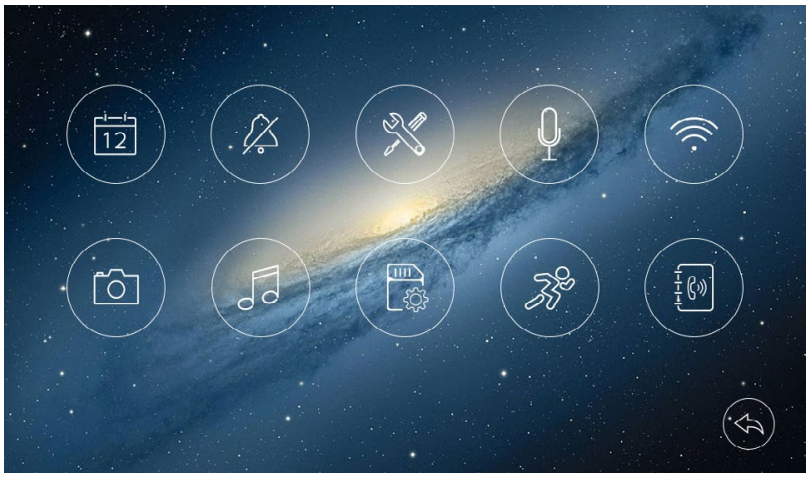
6.8 Screensaver Function

The monitor supports screensaver function (date &time display in standby mode).You can enable / disable screensaver function in setting page.



7. Setting Page

Press the icon on main screen or slide the main page to the right or left,and then the screen will enter main setting page.



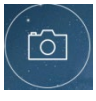
• In the date setting page,you can set the date & time of the monitor and select the date format.

• In the mute setting page, you can enable/disable the mute function and set the time range of the do not disturb function.

• In the General setting page, you can set the language of the monitor and restore system to factory settings. Date and time and the room station number will not be reset. You can also enable/disable the screensaver function.

• In the Voicemail setting page, you can select one voicemail for visitor as the message to play in when selecting [Leaving] mode and delete all voicemails for visitor. You can also record and review voice message.

• In the WiFi setting page, you can turn WiFi on or off and set call forwarding latency for the monitor,you can also reset WiFi settings

• In the Record  setting page,you can turn monitor record on / off and select

picture or video record mode.

• In the Melody setting page, you can set the ring tone for Door station 1 and Door station 2 and also set ring time.

• In the Memory setting page, you can delete all pictures or videos in the internal Flash memory of the monitor and also on the Micro SD card if fitted. You can also copy all the saved pictures/videos in the Flash memory to the micro SD card . You can also format micro SD card.

• In the Motion detection setting page,you can turn Motion detection on or off, set one camera as default for motion detection,set frame rate,motion detection sensitivity and time range of motion detection.

• In the Address setting page, you can set the intercom address of the monitor. The address of two monitors cannot be the same in one system.

Remark:

• To record and review voicemail message, please see 6.4.3.

• If you want to use voicemail function normally,you should make sure that the mode of monitor is “Leaving”.

• Once a moving object is detected, the monitor will record a video automatically(the duration of recording video depends on the frame rate). When monitoring door station or CCTV, motion detection will pause until the monitoring ends.

7.1 Specifications

Category	Specification
Input power	DC: 14.5V
TFT LCD	7 inch digital TFT LCD
LCD resolution	1024(RGB) x 600
Supported video input signal type	1080P / 720P / CVBS
Connection with door station	Support two 4-wire door stations
Connection with extension monitor	Support 3 extension monitors
Connection with CCTV	Support two 2-wire CCTV input
Memory capacity	Storage: 15M for image & 50M for video Micro SD card: Max Capacity 128G
Dimensions (mm)	222(W) x 154(H) x 15(D)(without wall bracket)

8. WiFi Connection (IM4TSW Only)

8.1 Adding a Device – WIFI

The monitor can connect to the Internet by WIFI to your router / modem. The WiFi settings for the monitor are programmed from the mobile device which has the Micron Intercom APP installed on it. The APP is available from the Play store for Andriod or the App Store for IOS

※To add a new device using ANDROID

1. Reset WiFi setting in the monitor before starting any configuration. Your Smart Device needs to be connected to the home WiFi;

2. Download and open the Micron Intercom APP, press the “+” icon and select “New Device”;

3. Scan the UID /QR code on the Monitor WiFi page;

4. Click next, and you can choose “AP add” or “Sound waves to add”. A message will appear “Select the WiFi to connect to”

5. Input the Wi-Fi password;

6. Click next, and wait for the device to configure successfully;

7. On your first connection please change the default password;

8. You can set the device name in the APP settings after configured successfully.

※To add a new device using APPLE

1. Reset WiFi settings in the monitor before starting any configuration. Your Smart Device needs to be connected to the home WiFi;

2. Download and open the Micron Intercom APP, press the “+” icon and select “New Device”;

3. Scan the UID /QR code on the Monitor WiFi page;

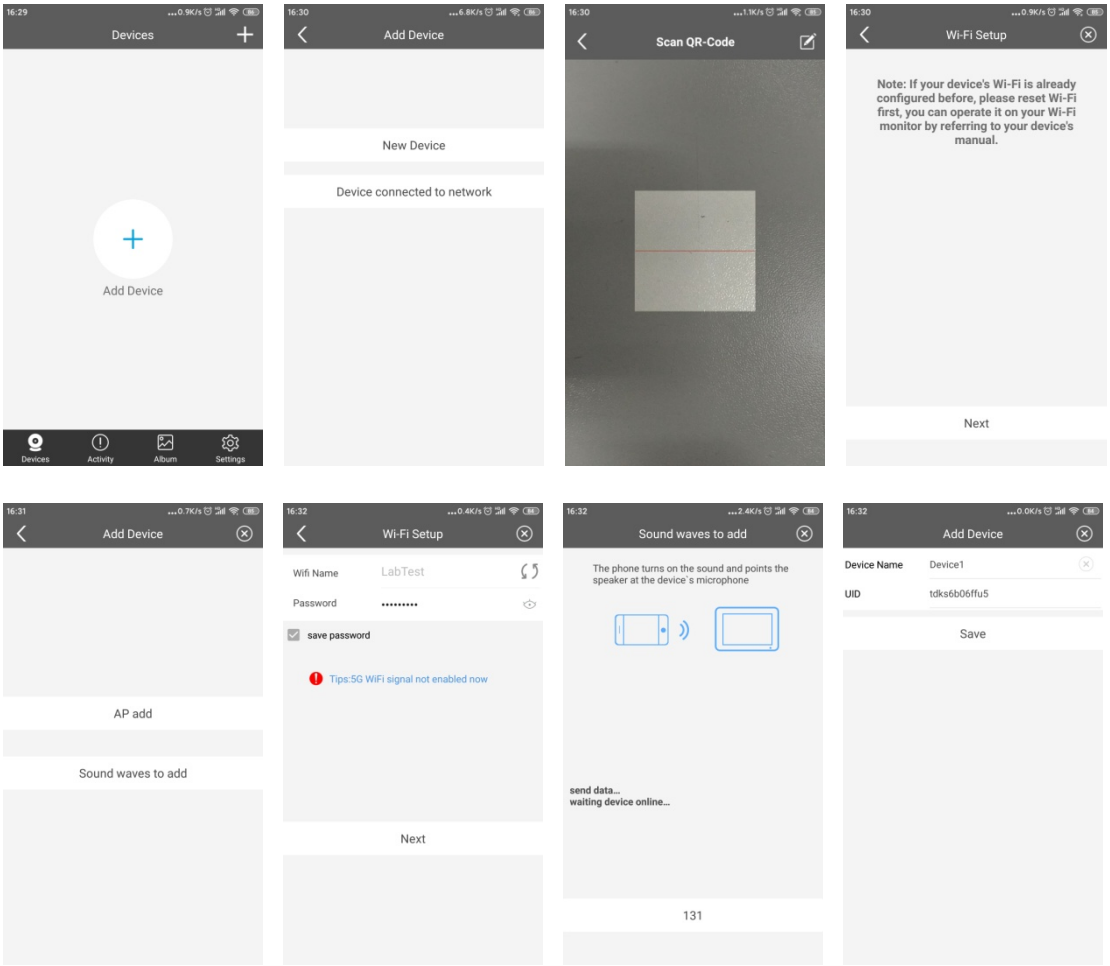
4. Input the Wi-Fi password of the home router;

5. Click next, and you can choose “AP add” or “Sound waves to add”. A message will appear “Micron Intercom wants to join the WiFi network”;

6. Click join and wait for the device to configure successfully;

7. On your first connection please change the default password;

8. You can set the device name in the APP settings after configured successfully.



Note:

• The home router must be connected to external networks if the call from door station needs to be transferred to your mobile phone;

• In order to ensure normal connection, all permissions of the APP need to be allowed;

• The UID / QR Code of each monitor is unique;

※ Add a second user to a connected device

1. Download and open the Micron Intercom APP, click the “+” icon and select “Device connected to network”;

2. Select “Online Device” or “Scan QR-Code” or “Manual Adding” item (select online device when Mobile phone and device connect to the same Wi-Fi), and then select the UID of the monitor;

3. You can set the device name, and input its password.

8.2 Control the Monitor Through the APP

1. Select the device you want to connect to and enter the monitor page(when you first use it, it will remind you to modify the default password);

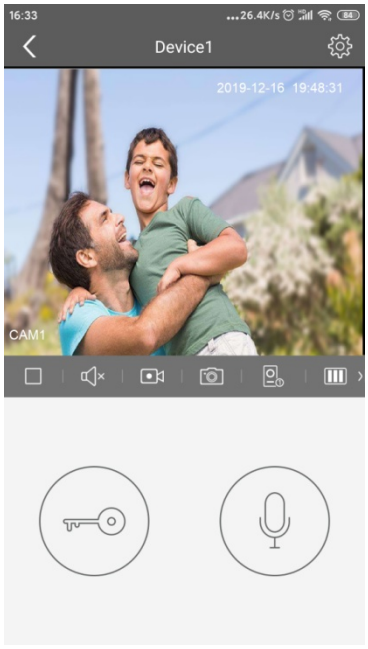
2. Press the setting icon at the upper-right corner and turn “Ring Alerts” to ON;

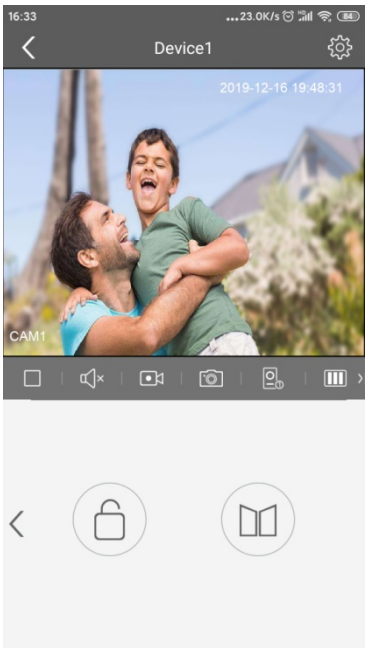
3. When door station calls in, the mobile phone will receive message and show ringing page;

4. Press the accept icon and talk with the visitor;

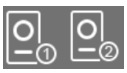
5. Press the corresponding lock icon, and then you can release the door lock and open the automatic door; if you press the setting icon at the upper-right corner and able “Pin to unlock”then you will have to input your password to unlock.

6. The monitor screen on the Mobile phone can be switched to fullscreen display mode;





※ Icon definition

	pause/play		record a video
	unmute/mute		capture a picture
	switch between outdoor stations		full-screen display

8.3 Call Forwarding Latency

In the monitor WiFi setting page, the "call forwarding latency" refers to set the delay in the intercom forwarding the call to the mobile.

9. Hardwired Connection (IM4TSW Only)

9.1 Adding a Device – Hardwired

The monitor can be connected to the Internt by wiring directly to your router / modem using the supplied 4 pin adapter.

1. Connect your smart device to the home Wi-Fi;
2. Go into the monitor WiFi settings and turn off;
3. Download and open the Micron Intercom APP, press the “+” icon and select “Device Connected to network”;
4. Scan the UID / QR Code on the Monitor WiFi page and press save;
5. On your first connected please change the default password;
6. You can set the device name in the APP settings after configured successfully.

Note:

• If You replace your SIM card or change phones, you will need to restart “Ring Alerts” to ensure that the mobile phone will receive notifications.

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