# USER MANUAL

## Dual Mode ( Wi-Fi + PWiFi) Baby Monitor

## Model No. : WM544514H

**WARNING**

STRANGULATION HAZARD - **Keep cord out of child's reach**. NEVER place camera or cords within 3 feet of crib or playpen. Never use extension cords with AC Adapters. Only use the AC Adapters provided.

• Some adult assembly or installation required.
• This product contains small parts that may cause choking. Keep small parts away from children.
• This product is NOT intended to replace proper supervision of children. You MUST check your child's activity regularly, as this product will not alert parents to silent activities of a child.
• Before using this product, read and follow all instructions contained in this booklet, and read and follow all instructions and warnings on the product.
• NEVER use the transmitter or monitor near water, including near a bathtub, sink, laundry tub, wet basement, etc.
• This product is intended for indoor use only.
• This product is not intended for use as a medical monitor and its use should not replace adult supervision.
• The transmitter detects normal sound levels within a range of 2 to 3 meters (6 to 10 feet) from a child. If the child moves outside of this range, if may not be able to detect sounds from him or her.
• It is essential that you check the operating range and condition of the transmitter monitor on initial installation and on a regular basis after that.
• Check reception regularly. Test monitor before use and after changing camera location.
• Do not take apart the product by yourself.
• To prevent overheating, keep the product and AC power adapters away from any direct sunlight and heat sources such as radiators, heat registers, cooking devices (e.g., stoves and ovens) and other appliances that produce heat (e.g., amplifiers, televisions and stereos).
• Ensure that the product is well ventilated during use. Avoid contact with pillows and furniture that may block ventilation.
• Use only the AC adapters provided with the product, as other adapters may damage the product. Plug the adapters only into standard household current (100~240 volts AC). Place the AC adapters avoiding pinch points otherwise you can damage the adapters.
• When an AC adapter is plugged into a power source, DO NOT touch the exposed end of the AC adapter's cord.
• Do not use extension cords with the AC power adapters to avoid entanglement.
• Images and sounds are transmitted by the product over public airwaves and transmissions may be picked up by other units. (Although the transmission distance is 100m or longer, it may vary depending on whether there are obstacles between the camera and the monitor.)
• Caution if you use the system to watch a young child, do not place the camera where the child can reach.
• When using the system with only battery power and the charge is low, then the picture and or sound may be affected. If this occurs then please connect the AC power adapter.

The transmission range of the wireless signal may weaken if heavy obstructions such as a concrete, brick, or metal walls are between the camera and monitor, or if there are several Wi-Fi routers and devices in your environment.

To avoid interference with RF signal, keep your cell phone at least 3ft away from the Camera and

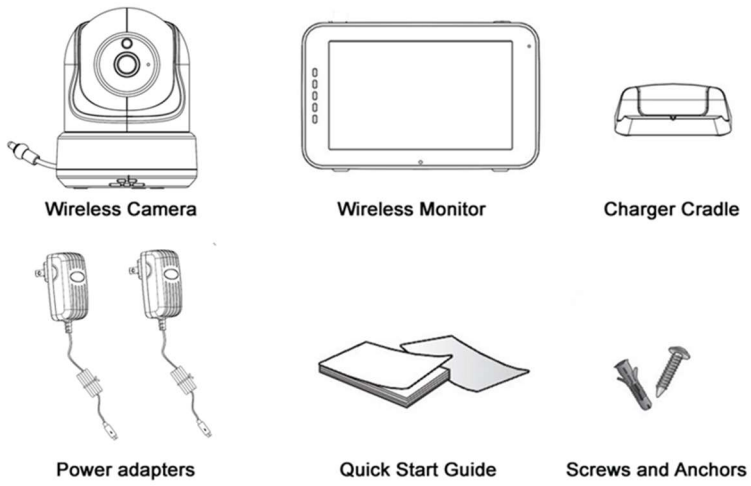
Monitor.

**CAUTION**
Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the instructions.

## Features:

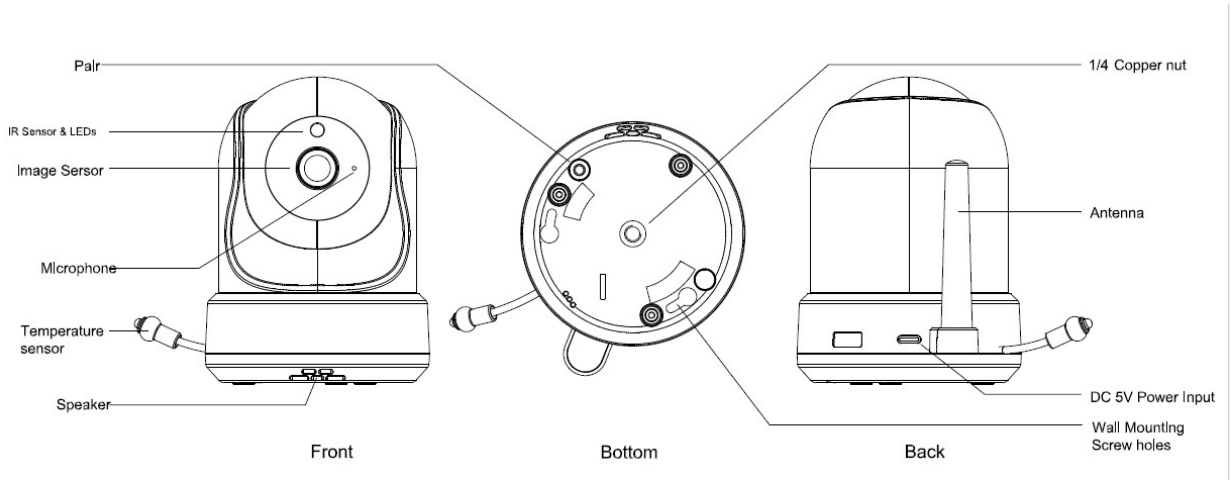
- 2.4 GHz PWiFi + WiFi dual mode technology
- System expandable up to 2 cameras, single or split display
- Multiple (6) languages selection
- Camera with night vision and sound trigger
- Lullaby and temperature display
- 2-way audio, monitor or smart phone can talk back to camera
- 5” capacitive touchscreen monitor
- Remote pan & tilt, digital zoom
- Free iOS & Android APP.

### What's Included



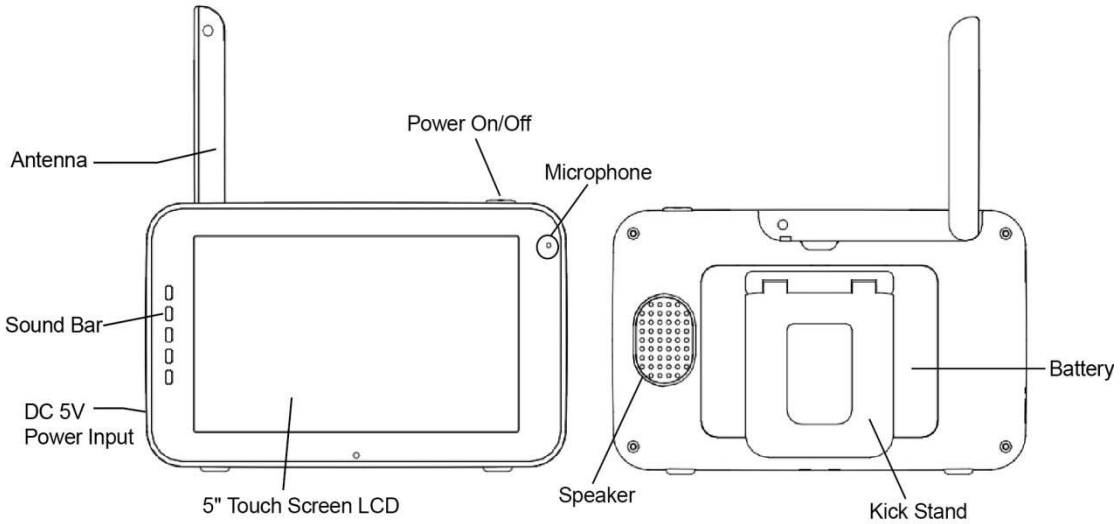

### Product Overview

Wireless Camera



1. Pair Button: a. Establishes a new connection between the camera and monitor during the pairing process, b. Push and hold to reset camera when adding camera to App
2. IR Sensor & LEDs: Infrared LEDs provide viewing in NO/LOW Light conditions.
3. Image sensor/Lens
4. Microphone: Detects & transmits the sounds from camera to monitor.
5. Temperature Sensor: The measured ambient temperature is displayed on the monitor.
6. Speaker: Enables the ability to talk from monitor/phone to camera and play lullabies.
7. 1/4” nut for goose neck bracket
8. Antenna: Sends & receives signals to or from the monitor.
9. DC 5V Power Input: Input for the power adapter, 5V 1A, type C connector
10. Wall Mounting Screw Holes

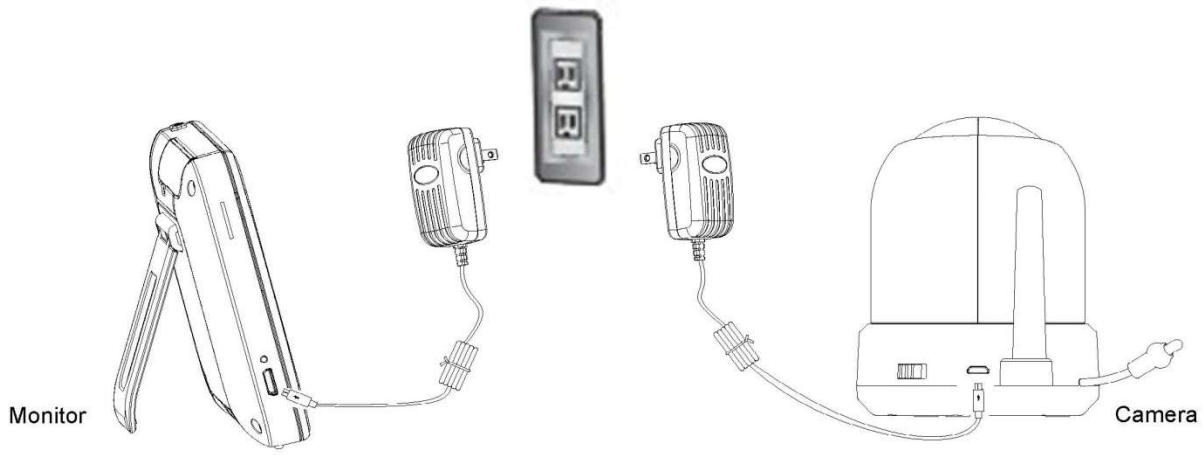
Wireless Monitor




1. Antenna: Sends & receives signals to or from the Camera.
2. Sound Bar: Indicates the level of sound detected by the Camera.
3. DC 5V Power Input: Input for the Power Adapter 5V 1A. (type C connector)
4. Screen: 5” capacitive touchscreen panel.
5. Microphone: Detects & transmits the sound from monitor to camera.
6. Power On/Off button:
   a. Press and hold to switch the monitor on/off.
   b. Short press will change monitor to power save mode (Audio always on)
   c. In power save mode, when VOX on, higher sound will activate the monitor.
7. Kick Stand: Enables the table stand for the monitor.
8. Battery: Rechargeable lithium polymer battery for portable use.

## Getting Started

Installing the Monitor & Camera




1. Fully charge the monitor via power adapter. Camera must be plugged in at all time.
2. Place the camera in the preferred position. You can place it on the table/cabinet, or mount it on a wall or ceiling through screw hole at the bottom of the camera.
3. Press and hold the power button for about 4-5 second to turn on the monitor.
4. Plug in power to camera, camera night will be on, after about 40 seconds, light will be off and you will hear an audible sound, means camera initialize finished (camera powered on).

## Pairing the Monitor & Camera：

The unit come with camera and monitor paired for your convenience.
If you have additional camera, pair your camera as follow:

**1.** Power on wireless monitor and wireless camera.

**2.** Touch the live view screen on the monitor to make the settings icon appear.，

**3.** Press the [ ] button at the bottom left corner of the monitor.

**4**. Press the camera button to go into camera setting menu.

**5.** Press [ ] icon and select camera number, press “Pair additional camera”.

(The monitor will search for the camera when set to pairing mode, Select the channel you want to pair the camera to, and touch to confirm, a countdown clock will appear at the middle of the screen and will start counting from 30 to 0).

**5.** Press the [PAIR] button at the bottom of the camera, camera night light will flash.

**6.** If the monitor successfully paired with the camera within the 30 seconds, camera night light will turn off, monitor will display live view from that camera.

## Indicator Description

## Live View

1. Signal indicator: Shows the strength of the signal being received from the camera. If an 'x' shows up on the signal bar, then the system is "out of range".
2. Digital Clock: 2:45 Displays the time that is set on the monitor.
3. Camera number: Indicates which camera is being displayed on the current screen
4. Camera connection indication: Indicates camera connected to internet, indicates camera disconnected from internet. These two icons will not be displayed if the camera is not registered to router.
5. Zoom mode: Indicates Zoom mode. x1/x1.5/x2
6. Monitor Speaker: means monitor spear is on, Indicates the monitor's speaker is muted
7. Battery Power Level: Shows the battery status.

• **Battery Status**

A battery charge state indicator within the LCD will show the level of charge indicating five states, including alert (flashing red battery outline), 1/4, 1/2, 3/4 and full.

Low battery: Flashing Red

¼ Battery fill: Red

½ Battery fill: White, 1 bar

¾ Battery fill: White, 2 bars

Full Battery fill: White, 4 bars (the power supply is not connected)

Full Battery fill with charging: White and lightning bolt icon alternately (the power supply is connected)

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8. Night light switch, press the icon , night light on camera will be turned on and the icon change to , press again, turn off the night light, icon change back to
9. Temperature Display: -- °C Shows the temperature of the camera (baby room).
10. Feed time counter: 00:55 A countdown clock of the feed time, when at feed time (countdown to 0), there will be audio alert and the icon will be displayed.
11. Privacy switch, means camera WiFi turned on, press this icon will change to , means camera WiFi turned off, you can not remote visit camera through smartphone App, press again to turn on camera WiFi. These two icons will not be displayed if the camera is not registered to router.
12. Split Mode: Press this button to switch to split mode to show two cameras at the same time.

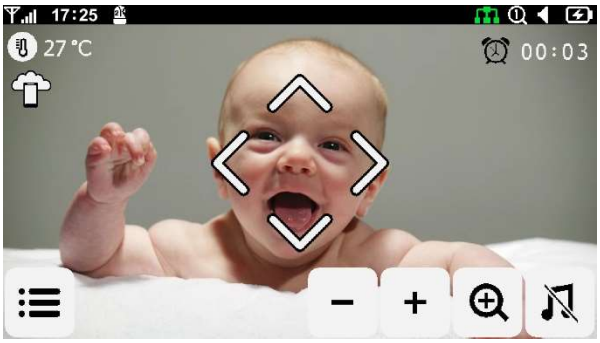
13. Talk Back: Press and hold this button if you want to talk to camera side, release to get monitor audio back.

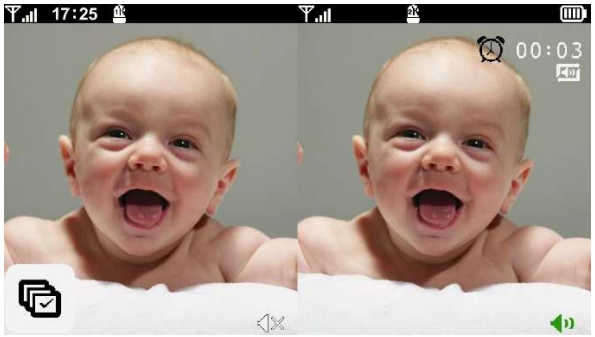
**Note:**

a) “Talk Back” button only appear on single camera Live View mode
b) Press and hold Talk Back button, can activate talk back function
c) If camera unit was playing lullaby, then lullaby will be paused until talk back button is released

**Operation Key**

By tapping any position on the screen then “Operation” keys come out
If user tapes screen without touching any function key (or time is out after 10 seconds), then it will back to Live View mode.

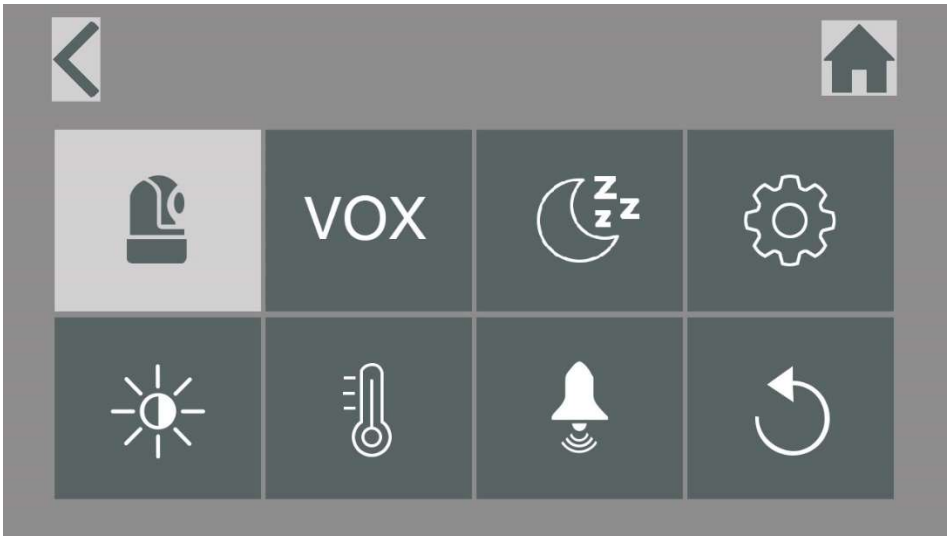


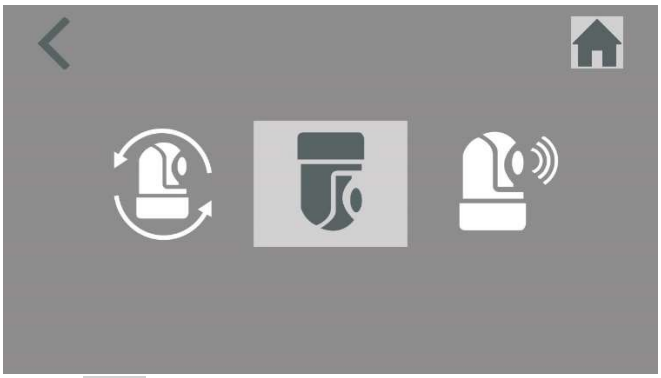

1. Menu Setting: Menu setting includes monitor and camera settings
2. Monitor Volume: adjust the monitor volume
3. Zoom In / Out: supports x1, x1.5, x2 digital zoom ratio
4. Lullaby: Press the Lullaby icon to turn lullabies ON/OFF. Plays 3 pre-programmed songs. Press the number or “All” above the , it will display 1 2 3 all, you can chose the number you want to play or choose all to play all 3 lullabies, from 1 to 2 to 3 and to 1 again.）
5. Navigation Controls: Use this icon to remotely Pan/Tilt the camera
6. Audio control in split mode: In split mode, press speaker icon to turn on audio for that channel, press icon at right side will change the monitor to AUDIO SEQUENCE mode, monitor will play audio from both channels one by one, stays on each channel for 8 seconds.
7. In split mode, press will change the monitor to SEQUENCE mode, monitor will display image from all channels one by one, stays on each channel for 10 seconds, then

next channel. There will be an SEQ shows at the bottom right corner.

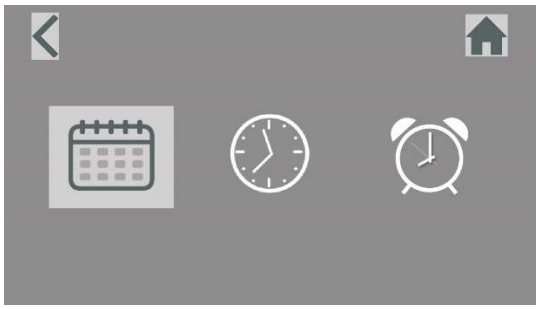
**Menu Page**




1. Camera Settings:
   a. Pair / Unpair Camera: You can connect up to four cameras to your system.
   b. Camera flip: When you mount camera on ceiling, you need to flip image so that you can see normal view.
   c. Camera volume: To adjust camera volume.



2. VOX: VOX Set the VOX sensitivity to detect low or high sound levels.
3. Auto power save: , to set monitor from live view to go to power save mode automatically **when VOX is on**, you can set 30s, 60s and 120s or turn of auto power save function.
4. Settings: To set date, time, timer and language
   a. Date & Time & Timer: Set system date, time & feed timer.



b. Language: Set language for the monitor from six options: English, German, French, Italian, Dutch and Spanish.

5. Brightness: Adjust the brightness of each individual camera.
6. Temperature: You can set Celsius or Fahrenheit, and temperature high and low alerts.
7. Alarm Volume: You can raise or lower the camera and alarm volumes.
8. Default: Reset the monitor defaults to factory settings.
9. Back: Save the settings and return to the previous page.
10. Home: Return to Live View.

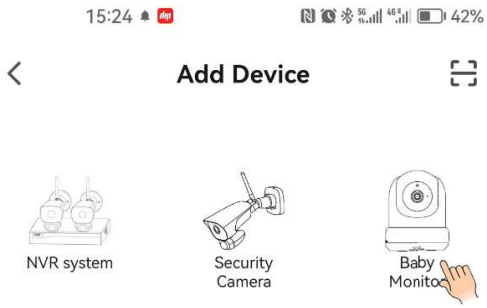
**Mobile Application—Setting up the camera to connect to your home router for remote access.**

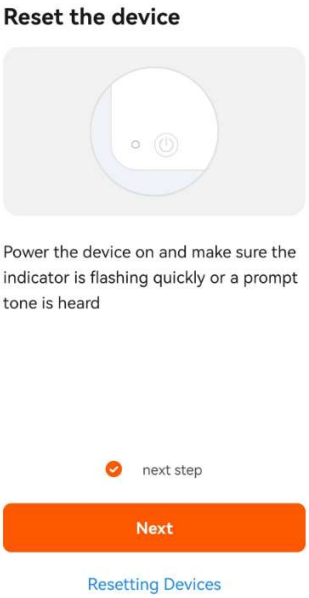
**To ensure a better connection, pls put the camera as close as possible to your home router.**

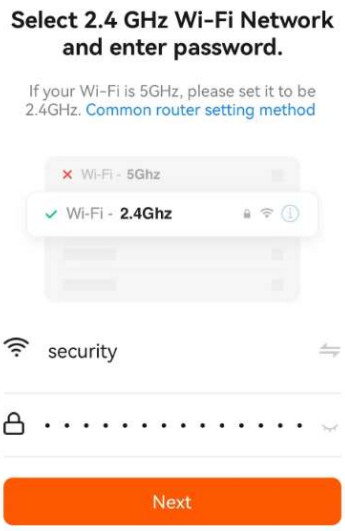
You can remotely monitor your baby using the 5” monitor and MiSmart Cam App at the same time.

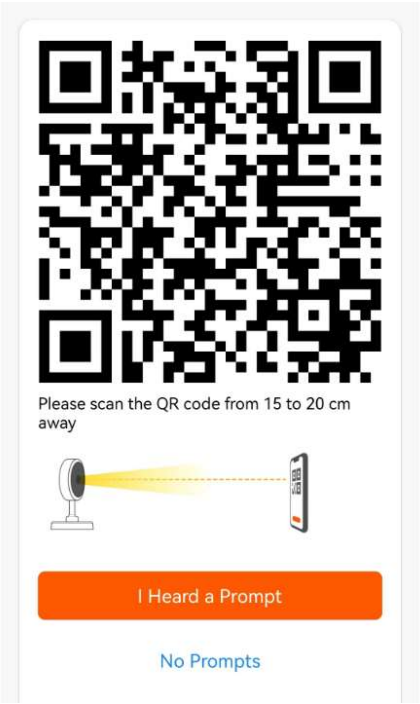
## WiFi setup (Android)

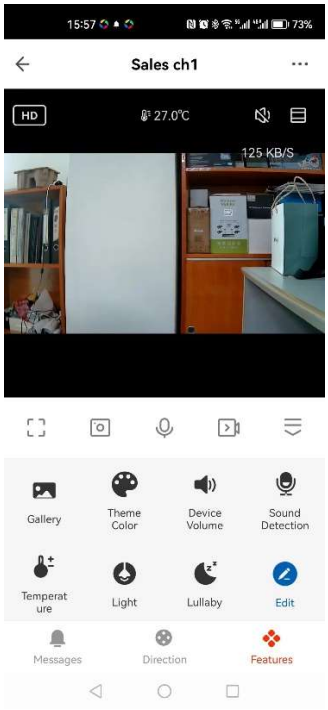
1. For Android phone, pls go to the Google Play to install the " MiSmart Camera" App, for iPhone, pls go to” from Apple App Store to install “MiSmart Cam”.
2. Make sure your phone is connected to the router which you want your camera to register to. Pls connect to 2.4G WiFi, not 5G WiFi.
3. After installation, press “+” to add device, select the right icon “Baby Monitor”
4. Follow the instruction (tick the “Next step” and press “Next”
5. Push and hold the pair button at the bottom of the camera until you hear an audible sound, night light will flash, after about seconds, you will hear startup sound, and then di-di alert, means it is in scan mode.



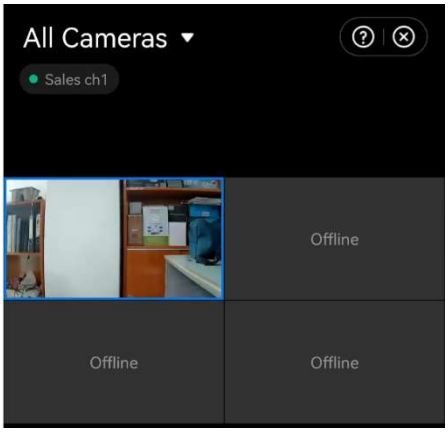




Following instruction for above step 3, generate QR code and let the camera scan the QR code, once you hear a “di---” sound, you can go next step, and waiting for connection confirmation message from phone App.

If connection failed, pls power off and power on again the monitor and go through above process again.



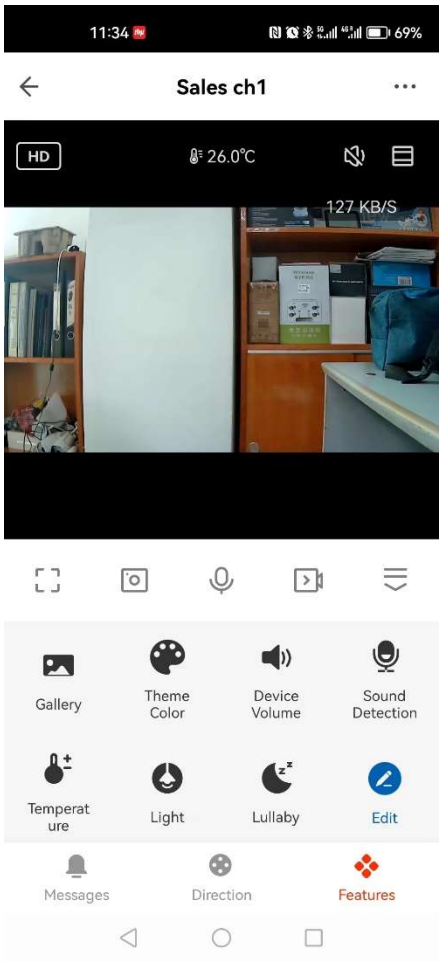

## Live View:

In camera list,

Touch the icon , you can get multi camera view in one page.

Touch each camera in the list, you can get single camera view.

## In single camera view




Touch this icon, you can activate audio or turn off audio.

Touch this icon to get full screen live view in portrait

HD Touch this icon, you can change the live view resolution between HD and SD

26.0℃: Camera room temperature.

Touch this icon will show control icons or hide control icons.

Touch this icon to get full screen live view in landscape

Touch this icon to get a snapshot for the live view, store in your cell phone, you can go to the icon Gallery to view the snapshot.

Touch this icon to talk to camera from your cell phone, you can go to top-right corner ••• \basic settings\talk mode to select one way or two-way (full duplex) talk.

Touch this icon to record current live view into your cell phone, you can go to the icon Gallery to view the recording.

Gallery Touch this icon to see the snapshot you took from live view, you can share the selected snapshots via skype, wechat or other social media, or send through e-mail.

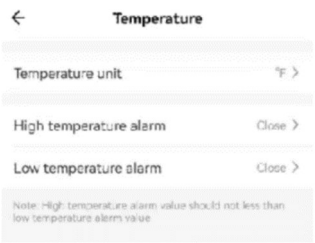
Theme Color Touch this icon to change App theme color, Light Mode or Dark Mode.

Night vision Touch this icon to select night vision mode: Auto, (always) Off or (always) On, red color means night vision is on.

Device Volume Touch this icon to change device (camera) volume.

Sound Detection Touch this icon to activate or deactivate sound detection (VOX), , red means sound detection is activated. You can go to top-right corner ••• (settings)\Sound Detection to set the sound detection sensitivity.

Touch this icon to turn on/off room temperature alert and set alert high temp. limit and low temp. limit, see right side



Touch this icon to turn on/off night light or set schedule for night light on and off.

Touch this icon to turn on/off lullaby or change different lullaby.

# Specification

| **Kit** | |
|---|---|
| Operating Frequency Range | 2400MGHz-2483.5MHz |
| TX Power | 15+/-1dBm (Wi-Fi) |
| RX Sensitivity | -89dBm (Wi-Fi) |
| Type of Spread Spectrum Used | ?Wi-Fi |
| Type of Modulation Used | GFSK, 802.11b/g |
| Data Rate | WiFi (802.11b/g) |
| Communication Range | WiFi (camera to router): 120m line of sight<br>The transmission range of the wireless signal may weaken according to your environment. |

| **Camera** | |
|---|---|
| Image sensor type | 1/4" Color CMOS Image sensor |
| Effective Pixel | 1920 (H) x 1080 (V) |
| Power requirement | 5V DC 1A |
| Image Resolution | 1920*1080 |
| Lens | 3.0mm F2.0 |
| Viewing Angle (Diagonal) | 83° (H), 43°(V), 93° (FOV) |
| IR LED / Night Vision Range | 5m 940nm |
| Operation temperature | -10~40°C |

| **Monitor** |
|---|

| | |
|---|---|
| LCD Panel size | 5" capacitive touch panel |
| LCD Resolution | 720p RGB |
| Operating Temperature | 14°F~104°F (-10~40°C) |
| Operating Humidity | 0% ~ 85% |
| Power requirement | 5V DC 1A |

**Note：**

This item is in compliance with FCC test standard: Part 15C 15.247.

## FCC Warning

**15.19 Labeling requirements.**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**15.21 Information to user.**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**15.105 Information to the user.**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

## FCC RF Radiation Exposure Statement:

1.This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.