RF·Link™

Model: VMI-1201
Smart iCAM
Remote HD Wi-Fi
DIY Surveillance Camera

User's Manual
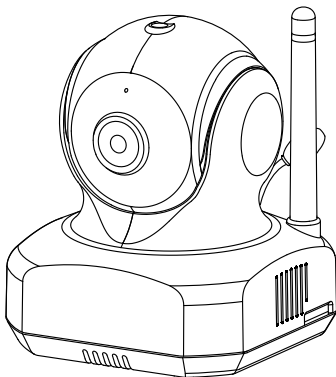

Available on the **App Store**

ANDROID APP ON **Google play**

Please read carefully before using this equipment.

Watch the things that matter to you anytime and anywhere

Smart iCAM   Wi-Fi Router   Smartphone,Tablet

Smart iCAM is a wireless network camera. It can connect with your smartphone or tablet via wireless technology, and monitor everything that matters to you on your smartphone or tablet anywhere and anytime.
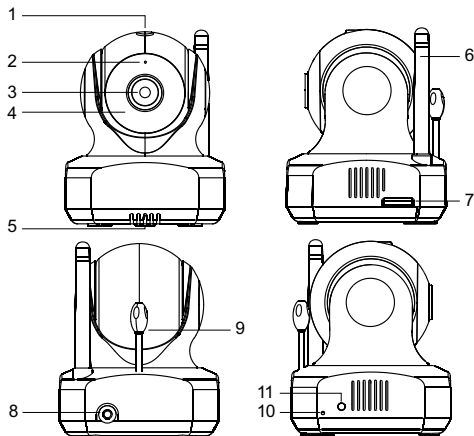
Before you start you need:

iPhone, iPad,
Android smartphone
or Android tablet

Smart iCAM

Wi-Fi router

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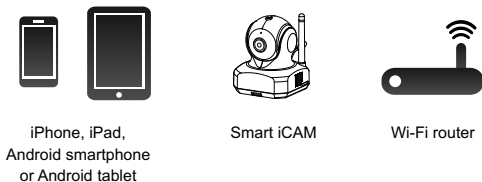
1 Package Contents

- One Camera
- Two Cable Clips
- One Adapter
- This User's Manual
- One Screw and One Wall Anchor

2 Product Layout

Camera

1.Light sensor
2.Microphone
3.Camera lens
4.Infrared LEDs
5.Speaker
6.Antenna

7.Micro SD Card slot
8.Power adapter socket
9.Temperature sensor
10.Reset button
11.Power/Status LED

3 Getting Started

3.1 Download Smart iCAM app

Key in the keyword "Smart iCAM" or scan the QR code and download the app from Apple App Store (iPhone/iPad) or Google Play Store (Android).

3.2 Power on the camera

Plug one end of the provided power adapter into a wall outlet and the other end into the back of the camera to turn on the camera. The LED on the camera will light up light orange. It takes about 30 to 60 seconds for initial setup and then the LED will start to blink a dark orange color.
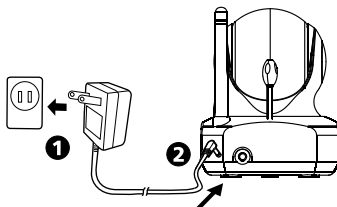
3.3 First-time Setup

3.3.1 Connect your smartphone or tablet to the camera

1. Turn on the Wi-Fi of your smartphone or tablet.
2. Select "Smart-iCAM _XX : XX : XX…" under Wi-Fi Networks and enter the password. The default password is "12345678".


- *Note:* If you cannot find "Smart-iCAM_XXXXXX" under Wi-Fi Networks and the LED on the camera is not blinking, please follow step 3.6 of this user manual to reset the camera.

3. Launch the Smart iCAM app on your smartphone or tablet. The welcome screen will be displayed.

4. Set up an Internet connection

The camera will scan for available Wi-Fi networks (SSID). Select the name of the Wi-Fi network (SSID) that you wish to connect with the camera and enter the password of your Wi-Fi router if necessary. First-time setup is now complete.
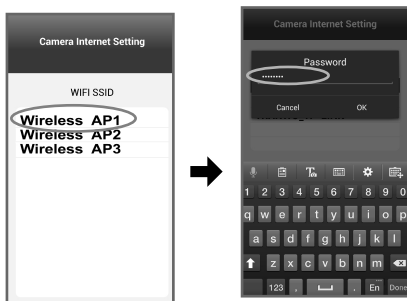
💡 *Note 1:* Once you complete Internet setup, the LED on the camera will turn green after about 1 minute.

2: Wi-Fi SSID is the wireless network name.

3: If the camera cannot find the Wi-Fi network you wish to connect to, please make sure the camera and the Wi-Fi router are within range of each other.

4: If you type in the wrong SSID password the camera will beep three times and then reset to factory default automatically. Please close the App and follow step 3.3 in the user manual to set up the camera again.

5: If you have completed Internet set up but the Power/Status LED is still orange, please check the Wi-Fi router is OK and make sure the camera and Wi-Fi router are within range of each other.

6: Make sure your mobile phone is connected to the Wi-Fi AP/Router you assigned after set up

3.3.2 **Viewing live video**

1. Select the camera icon in Camera List to view video from the camera.
2. Touch the image display area of the screen and slide on the screen for pan-tilt function.
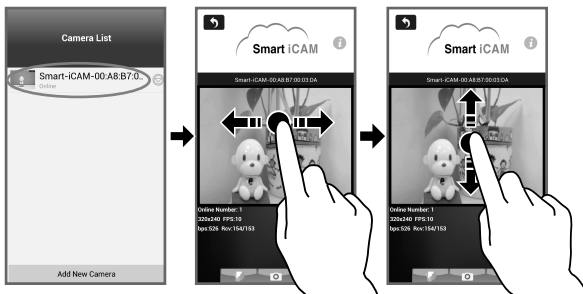
3. Touch the image display area of the screen and move fingers apart for digital zoom function.
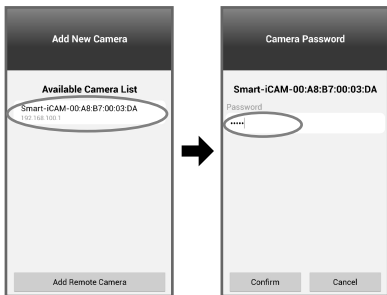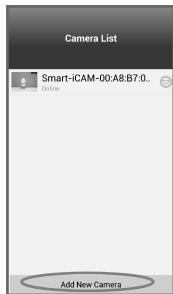
3.4 Add camera to other smartphones or tablets

3.4.1 Add camera in LAN (Your mobile phone and camera are connected to the same Wi-Fi router.)

1. Download the Smart iCAM app.
2. Turn on the Wi-Fi of your smartphone or tablet and then tap the screen to select which Wi-Fi router your camera has been connected to.
3. Launch the Smart iCAM app on your smartphone or tablet.
4. Tap the **"Add New Camera"** icon to add a camera.
5. Tap the screen to select which camera you wish to add under
   "Available Camera List".
6. Enter password for the camera. The default password is **"admin."**
7. Tap the camera icon in Camera List to view video from the camera.

☀ *Note:* If you enter the wrong password, please tap the camera icon again and then retype the correct password.

3.4.2 Add camera through remote setup (Your mobile and camera are NOT connected to the same Wi-Fi router.)

1. Download the Smart iCAM app.
2. Please make sure your smartphone or tablet can link to the Internet via a Wi-Fi router or 3G/4G mobile network.
3. Launch the Smart iCAM app.
4. Tap the **"Add New Camera"** icon.
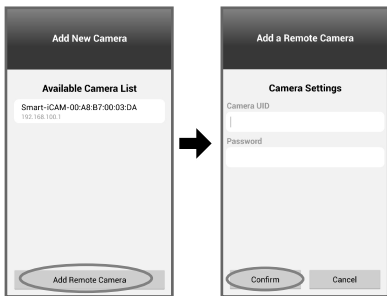
5. Tap the **"Add Remote Camera"** icon to enter **"Add a Remote Camera"** screen.
6. Tap in the UID and password of the camera you want to add.
   ☀ *Note 1:* Tap the 🛈 **i (information)** icon in live video screen to get UID information. The UID is 20 characters.
       2: The default password is **"admin".**
       3: If you enter the wrong password, please tap the camera icon and then retype the password.
7. Tap the camera icon in Camera List to view video from the camera.

3.5 Add more cameras (Multi-camera)
Follow step 3.3 in the user manual to complete first-time setup for each camera.
☀ *Note:* Up to 10 cameras can be added.

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3.6 Reset the camera to factory default

When the camera has been on for at least 1 minute, press the reset
button (using a small object or a pin) for 5 to 10 seconds.
The camera will beep 3 times and take about 1 minute to reset. The
LED will start to blink a dark orange color.

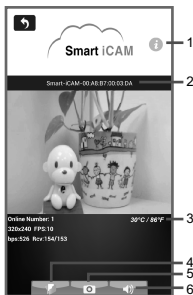*Note 1:* If you do not hear a beeping sound, reset has failed. Please
turn the camera back on and press the rest button again.

Note 2: If you replace a new Wi-Fi router or if you forget the camera
password, the camera needs to be reset to factory default.
Please refer to 3.3 - First time setup in the user manual, to
set up the camera again.
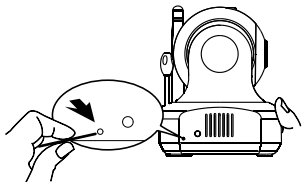
4 Operation Mode

4.1 Viewing Live Video

1. Information :
   Tap the 🛈 icon to get information about the camera.
2. Camera name :
3. Temperature display
4. Photo folder :
   Tap the icon to see all of the photos you have taken.
5. Snapshot :
   Tap the icon to save a snapshot of the camera on your smartphone or tablet.
6. Audio ON/OFF :
   Tapping the icon can turn on/off sound.
   When the audio icon is off 🔇 , you can speak through the camera unit of your smartphone or tablet.

4.2 Camera Setting

Tap the ⊙ icon to enter camera setting screen.
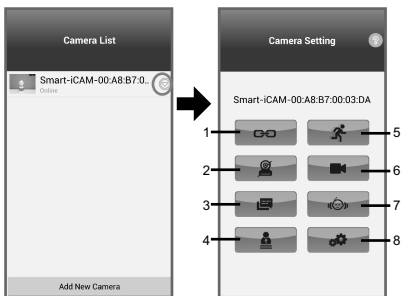
💡 *Note:* For security and management purposes, the following functions cannot be set when your mobile phone and camera are not connected to the same Wi-Fi router.

- Change Name/Password
- Motion Detection
- Record
- Voice Detection
- Video Setting

1. Reconnect: If the camera status is "offline", you need to tap "Reconnect" to re-establish the Internet connection.

💡 *Note:* When you complete the camera set up, please tap the "Reconnect" icon to ensure the Internet connection is successful.

2. Delete: Delete camera from Camera List.

3. Event Viewer: View event logs.

4. Change Name/Password: Change the camera name or password. The default camera password is **"admin"**.

⚠️ **To protect your privacy, we strongly recommend you change the camera password on a regular basis.**

Change Name / Password

Change Name
Smart-iCAM-00:A8:B7:00:03:DA
Apply

Change Password
Old Password

New Password

Confirm New Password
Apply

5. Motion Detection:

   a. **Enable/Disable** motion detection.

   b. A motion detection event can trigger the push message alert function and motion recording function.

💡 *Note:* Motion recording is only possible when a micro SD card is inserted into the camera. To remove memory card, please disable motion detection first.

   c. Touch the image display area of the screen and then slide onto the screen to outline the motion detection area.

   d. The interval between checks is 1 minute.
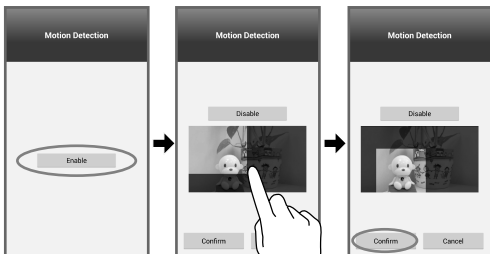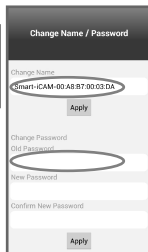
6. Record:

   Tap the icon to enable HD 720p recording, tap it again to disable recording.

   💡 *Note 1:* Recording is only possible when a micro SD card is inserted into the camera.

       2: The system supports micro SD cards with a maximum capacity of 32GB.

       3: An 1GB memory card is able to record about 1 hour of video. New images will overwrite old images when the card is full.

       4: If motion detection is not activated, the camera will record continuously.

   *5:* To playback recorded file
   - Place the micro SD card into an SD card adapter.
   - Connect the card adapter to a computer.
   - Use a media player such as VLC to playback the recorded file.

   > ⚠️ **Do not remove the memory card while recording is still in progress, otherwise the recording will be damaged.**

7. Voice Detection (VOX):

   a. Smart iCAM supports voice detection and push message alert functions. When the sound from the camera reaches the setting level, the camera will send an alert message to your smartphone or tablet, and the camera also can play a pre-recorded voice or melody automatically.

   b. Tapping the sensitivity level bar can adjust the sensitivity level or disable the VOX function. With the level set to high, the camera microphone will detect sounds that are lower in volume.

   c. Tap the **Voice Recorder** icon to start recording a voice or melody that can be played by the camera when VOX is triggered. Tap the **Stop** icon to stop recording. Maximum recording time is **10** seconds. The Voice Recorder is only effective when a micro SD card is inserted into the camera.

   d. The interval between VOX checks is 1 minute.
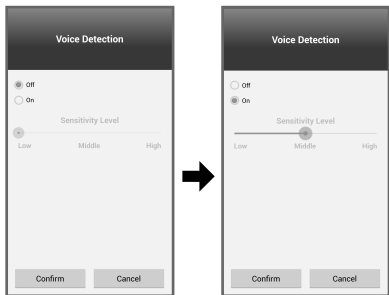
Note: When using an Android mobile, if you **"Exit"** the App, the push message function will not work. In **"Background"** mode the push message function is still effective.

8. Video Setting:
   a. Flip: Tap the **Flip** icon to flip the video when mounting the camera on the ceiling.
   b. Mirror: **Mirror** or invert the image.
   c. Video Resolution: the number of distinct pixels in each dimension that can be displayed, i.e.
      HD (1280X720) /VGA(640X480) /QVGA(360X240).
   d. Bit rate: the number of bits conveyed per second in telecommunications. The higher the rate the greater the bandwidth consumption.
   e. Frame Rate: The frequency at which camera produces unique consecutive images called frames. The higher the frame rate, the smoother the video will appear, but that requires more processing power and system bandwidth. Frame rate varies according to network conditions, mobile phone performance, image resolution and object situation.

Video Setting

a
b
c — Video Resolution
  ○ QVGA
  ○ VGA
  ○ HD
d — H.264 Bit Rate
  ○ 512 Kbps
  ○ 256 Kbps
  ○ 192 Kbps
e — Frame Rate
  ○ 30fps

Confirm   Cancel
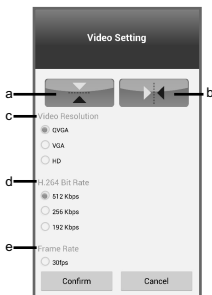
💡 *Note 1:* To view a camera remotely from outside your home or
office network, the camera needs to be configured to
QVGA resolution to allow better access.

2: If your mobile and camera are connected to the same router,
but still some camera setting buttons are hidden, please exit
and launch APP again to make sure all camera settings
buttons are effective.

⚠ **If you select HD or VGA resolution, video streaming
quality may be affected because of insufficient network
bandwidth.**

Troubleshooting

Users cannot connect the camera to a smartphone/tablet through Wi-Fi router or 3G/4G mobile network

- Make sure the power plug is pushed all the way in.
- Make sure the camera is turned on and power/status LED is green.
- Make sure the camera and the Wi-Fi router are within range of each other.
- Make sure the smartphone/tablet is connected to the Internet through a Wi-Fi or 3G/4G mobile network.

Video streaming is slow or lags

- If there is a microwave oven in use near the camera or Wi-Fi router, remove the oven or turn it off.
- Make sure the camera and the Wi-Fi router are within range of each other.
- The speed of video feed from the camera largely depends on the speed of the connection you are using.
- Internet speed, either from your Wi-Fi network or 3G/4G mobile network, has a high impact on the performance of the product. The faster and more stable the connection speed, the faster you can view video from the camera.
- Lower the video resolution, bit rate and frame rate.
- There are three main types of broadband Internet connection; ADSL, cable and fiber optic. If you use an ADSL connection, please set video resolution at QVGA.
- To view the camera remotely from outside home or office networks, it needs to be configured to QVGA resolution to allow better access.

Care and Maintenance

- Keep all parts out of reach of children.
- Fingerprints or dirt on the lens surface can adversely affect camera performance. Avoid touching the lens surface with your fingers.
- Should the lens become dirty, use a blower to blow off dirt and dust, or a soft, dry cloth to wipe the lens clean.
- Keep the camera dry. Precipitation, humidity and other liquids containing minerals will corrode electronic circuits.
- Do not use or store in dusty or dirty areas.
- Do not store in hot areas. High temperatures can shorten the life of electronic devices and warp or melt certain plastics.
- Do not store in very cold areas. When the system warms up (to its normal temperature), moisture can form inside the case, which may damage electronic circuit boards.
- Do not attempt to open the case. Non-expert handling of the device may damage the system.
- Avoid dropping or strong shocks.
- Operate this product using only the power supply included or provided as an accessory.
- Do not overload electrical outlets or extension cords as this can result in fire or electric shock.

FCC Statement

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

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.

Caution

- To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

Following the safety tips

- **To prevent deaths and injuries associated with camera cords,** make sure the camera and AC adapter cords are always out of reach of the baby by least 3 feet (1 meter).

  💡 *Note:* This is important even if your baby is not yet standing or mobile.
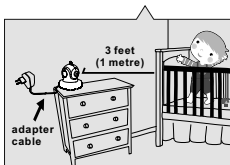
- Never use extension cords with AC adapters. Only use the AC adapters provided.

Specifications

Camera	
Frequency	2.4 GHz
Antenna	Dipole antenna
Modulation	DBPSK, DQPSK, CCK and OFDM
Image Sensor	Color CMOS
Lens	f 3.0mm, F 2.4
IR LED	8 pcs
Video compression	H.264
Audio	Two-way audio talk (half-duplex)
Recording	Support Micro SDHC Card, class 6 or above, up to 32GB
Pan & Tilt	H: 270 deg, V:120 deg
Dimensions	8.5(W) x 10.6(H) x 8.5(D) cm
Weight	229g
Power	DC 5.9V, 2A
Operating temperature	0℃ ~ 40℃ (32℉ ~ 104℉)

🚮 CE

Specifications are subject to change without prior notice. This device is for indoor use only

* iPhone, iPad are trademarks of Apple Inc., registered in the U.S. and other countries.
* Google Play is a trademark of Google Inc.

This item is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.