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VM901HD
VM901-2HD

Wi-Fi 1080p
Pan & Tilt Video Monitor

For more support information:

VM901HD VM901-2HD

Quick start guide

Congratulations

on purchasing your new VTech product. Before using this HD video monitor, please read **Important safety instructions**.

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What does HD Video Monitor do?

VTech Wi-Fi HD Video Monitor allows you to stay close to your baby when you are on the move or away.

This monitor is Wi-Fi enabled, which uses your home wireless network to stream live video and audio through the HD baby unit and 5-inch color screen parent unit. It allows you to maintain a constant connection to your baby.

You can also monitor from your smartphone and mobile tablet.

VTech Wi-Fi HD Video Monitor uses **MyVTech Baby Pro** app to let you instantly see and hear what's happening with your baby from anywhere in the world.

The app can be downloaded from the App Store or the Google Play™ Store, directly from your smartphone or mobile tablet.

Important safety instructions

The applied nameplate is located at the bottom of the baby unit's base.

When using your equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

1. Follow all warnings and instructions marked on the product.
2. Adult setup is required.
3. **CAUTION:** Do not install the baby unit at a height above 2 metres.
4. This product is intended as an aid. It is not a substitute for responsible and proper adult supervision and should not be used as such.
5. This product is not intended for use as a medical monitor .
6. Do not use this product near water. For example, do not use it next to a bath tub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement or shower.
7. **CAUTION:** Use only the battery provided. There may be a risk of explosion if a wrong type of battery is used for the parent unit. The battery cannot be subjected to high or low extreme temperature and low air pressure at high altitude during use, storage or transportation. Disposal of battery into fire or a hot oven, or mechanically crushing or cutting or the battery can result in an explosion. Leaving the battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas. Battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas. Dispose of used battery according to the instructions.
8. Use only the adapters included with this product. Incorrect adapter polarity or voltage can seriously damage the product.

Power adapter information:
Parent Unit Output: 5V DC 2A
VTech Telecommunications Ltd.
Model: VT05EUS05200,

9. Baby Unit Output: 5V DC 1A
VTech Telecommunications Ltd.
Model: VT05EUS05100,

Rechargeable battery information:
3.7V 5000mAh, 18.5Wh Lithium-ion battery
Zhuhai Great Power Energy Co., Ltd.
Model: GSP806090-5Ah-3.7V-15.1P

10. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.
11. For pluggable equipment, the socket-outlet (power adapter) shall be installed near the equipment and shall be easily accessible.
12. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
13. Do not cut off the power adapters to replace them with other plugs, as this causes a hazardous situation.
14. Do not allow anything to rest on the power cords. Do not install this product where the cords may be walked on or crimped.
15. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your dealer or local power company.
16. The equipment is to be supplied from an identified USB port complying with the requirements of Limited Power Source.
17. Do not overload wall outlets or use an extension cord.
18. Do not place this product on an unstable table, shelf, stand or other unstable surfaces.
19. This product should not be placed in any area where proper ventilation is not provided. Slots and openings in the back or bottom of this product are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa or rug. This product should never be placed near or over a radiator or heat register.
20. Never push objects of any kind into this product through the slots because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
21. To reduce the risk of electric shock, do not disassemble this product, but take it to an authorized service facility. Opening or removing parts of the product other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the product is subsequently used.
22. You should test the sound reception every time you turn on the units or move one of the components.
23. Periodically examine all components for damage.
24. There is a very low risk of privacy loss when using certain electronic devices, such as baby monitors, cordless telephones, etc. To protect your privacy, make sure the product has never been used before purchase, reset the baby monitor periodically by powering off and then powering on the units, and power off the baby monitor if you will not use it for some time.
25. Children should be supervised to ensure that they do not play with the product.
26. The small parts of this monitor can be swallowed by babies or small children. Keep these parts out of reach of children.
27. The product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

SAVE THESE INSTRUCTIONS

Cautions

- Use and store the product at a temperature between 0°C and 40°C.
- Burn hazard, fire hazard, explosion hazard associated with mishandling of the battery.
- Do not expose the product to extreme cold, heat or direct sunlight. Do not put the product close to a heating source.
- Warning–Strangulation Hazard–Children have STRANGLED in cords. Keep this cord out of the reach of children (more than 3 ft (0.9m) away). Do not remove this tag.
- Never place the camera unit(s) inside the baby's crib or playpen. Never cover the camera unit(s) or parent unit with anything such as a towel or a blanket.
- Other electronic products may cause interference with your camera unit. Try installing your camera unit as far away from these electronic devices as possible: wireless routers, radios, cellular telephones, intercoms, room monitors, televisions, personal computers, kitchen appliances and cordless telephones.

Precautions for users of implanted cardiac pacemakers

Cardiac pacemakers (applies only to digital cordless devices): Wireless Technology Research, LLC (WTR), an independent research entity, led a multidisciplinary evaluation of the interference between portable wireless devices and implanted cardiac pacemakers. Supported by the U.S. Food and Drug Administration, WTR recommends to physicians that:

Pacemaker patients

- Should keep wireless devices at least six inches from the pacemaker.
- Should NOT place wireless devices directly over the pacemaker, such as in a breast pocket, when it is turned ON.

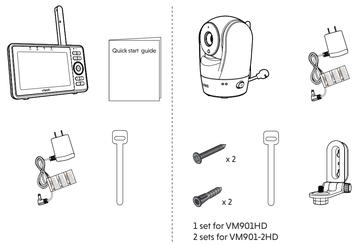
WTR's evaluation did not identify any risk to bystanders with pacemakers from other persons using wireless devices.

Electromagnetic fields (EMF)

This VTech product complies with all standards regarding electromagnetic fields (EMF). If handled properly and according to the instructions in this user's manual, the product is safe to be used based on scientific evidence available today.

What's in the box

Your HD video monitor package contains the following items. Save your sales receipt and original packaging in the event warranty service is necessary.



1 set for VM901HD
2 sets for VM901-2HD

Requirements

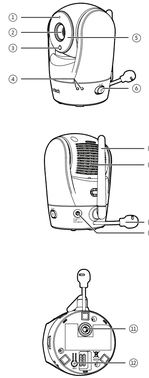
For mobile access:

MyVTech Baby pro mobile app

Network	Wi-Fi
Wi-Fi router	2.4GHz 802.11 b/g/n
Internet connection	1.5 Mbps @ 720p or 2.5 Mbps @1080p upload bandwidth per baby unit

Overview

Baby unit overview



1 **Microphone**

2 **Camera lens**

3 **Light sensor**

4 **LED indicators**
- Flash orange and green alternately when the baby unit is in pairing mode.
- Orange is steady on when the baby unit is not connecting to the Internet and is idle.
- Green is steady on when the baby unit is connecting to the Internet and is idle.
- Flash orange slowly when the baby unit is not connecting to the Internet and is streaming with the parent unit.
- Flash green slowly when the baby unit is connecting to the Internet and streaming with the parent unit or mobile app.
- Flash orange and green quickly and alternately when the baby unit is updating its firmware.

5 **Infrared LEDs**
Allow you to see clearly in a dark surrounding.

6 **⏻ ON/OFF switch**

7 **Antenna**
Connect to router with Wi-Fi.

8 **Speaker**

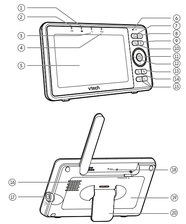
9 **Temperature sensor**

10 **Power jack**

11 **Threaded socket**

12 **Pair/reset button**
- Press and hold for three seconds to enter pairing mode.

Parent unit overview



1 **LED light**
- On when the parent unit is connected to AC power, or the battery is charging.
- Flashes when the parent unit battery is low and needs charging.
- Off when the parent unit is disconnected from AC power.

2 **LINK LED light**
- On when the parent unit is linked to the baby unit.
- Flashes when the link to the baby unit is lost.

3 **LED light**
- On when the parent unit speaker volume is set to off.
- On when the parent unit is talking to the baby unit.

4 **TALK LED light**
- On when the parent unit is talking to the baby unit.

5 **LCD display**

6 **Microphone**

7 **LCD ON/OFF**

8 **POWER**

9 **♫ Lullaby**
- Press to enter the lullaby menu.

10 **TALK**
- Press and hold to talk to the baby unit.
- While in a submenu, press to exit.

11 **Arrow keys**
<, ^, > or v
- Press to move the selection box leftward, upward, rightward or downward.
- While viewing image from the baby unit, press and hold to pan the baby unit leftward, upward, rightward or downward.
- While viewing zoomed image, press and hold to move the zoomed image leftward, upward, rightward or downward.

12 **MENU/SELECT**
- Press to enter the menu.
- While in a menu, press to choose an item, or save a setting.

13 **Zoom in**

14 **Zoom out**

15 **- VOL/ VOL +**

16 **Power jack**

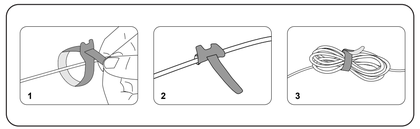
17 **Antenna**

18 **Speaker**

19 **Battery compartment cover**

20 **Stand**

Cable management



Technical specifications

Frequency	Baby unit: 2412 - 2462 MHz
Channels	11
LCD	5" Color LCD (1920x720 pixels)
Nominal effective range	Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.
Power requirement	1. Parent unit power adapter: Output: 5V DC 2A 2. Parent unit: 3.7V Lithium-ion Polymer battery 3. Baby unit power adapter: Output: 5V DC 1A

How the system works

Direct mode

The parent unit and the baby unit of your video monitor connect to each others in **Direct mode** by default, which allows you to stream live video right out of the box. **Direct mode** connection lets you stream live video from parent unit only.

Tip

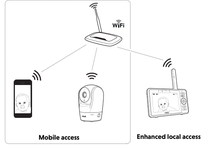
- You may experience reduced signal strength if your parent unit and baby unit are far apart, or there are obstructing factors, such as internal walls, between them. Move the parent unit closer to the baby unit to improve the signal strength. You can also set up **Router mode** to connect via your home Wi-Fi network to improve the connection between your parent unit and baby unit.

Router mode

You can continue using your video monitor with **Direct mode** connection, or you can set up your monitor in **Router mode** connection.

Router mode uses your home Wi-Fi network to connect your video monitor. It supports streaming live video through parent unit and smartphone app.

We recommend that you set up your monitor in **Router mode** to enjoy streaming live video via your parent unit with better connection.



If you want to stream live video remotely with your mobile device, download and install the **MyVTech Baby Pro** mobile app. With the mobile app, your Wi-Fi router (not included) provides Internet connectivity to your HD video monitor system. It serves as a communication channel between your baby unit and mobile device, allowing you to monitor and/or control your baby unit wherever you are. For detail, see **Download app for mobile access** section in this quick start guide.

Notes

- Your parent unit detects the connection signal strength. If you have connected your video monitor with your home Wi-Fi network, your parent unit automatically switches to direct or router mode - the one that has stronger signal strength.
- When both parent unit and app are viewing the camera simultaneously, the video quality will be optimised to deliver the best possible viewing result.

Protect your privacy and online security

VTech cares about your privacy and peace of mind. That's why we've put together a list of industry-recommended best practices to help keep your wireless connection private and your devices protected when online. We recommend you carefully review and consider complying with the following tips.

Ensure your wireless connection is secure.

- Before installing a device, ensure your router's wireless signal is encrypted by selecting the "WPA2-PSK with AES" setting in your router's wireless security menu.

Change default settings.

- Change your wireless router's default wireless network name (SSID) to something unique.
- Change default passwords to unique, strong passwords. A strong password:
  - Is at least 10 characters long.
  - Is complex.
  - Does not contain dictionary words or personal information.
  - Contains a mix of uppercase letters, lowercase letters, special characters and numbers.

Keep your devices up to date.

- Download security patches from manufacturers as soon as they become available. This will ensure you always have the latest security updates.
- If the feature is available, enable automatic updates for future releases.

Disable Universal Plug and Play (UPnP) on your router.

- UPnP enabled on a router can limit the effectiveness of your firewall by allowing other network devices to open inbound ports without any intervention or approval from you. A virus or other malware program could use this function to compromise security for the entire network.

For more information on wireless connections and protecting your data, please review the following resources from industry experts:

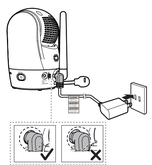
1. Federal Communications Commission: Wireless Connections and Bluetooth Security Tips – *www.fcc.gov/consumers/guides/how-protect-yourself-online*.
2. U.S. Department of Homeland Security: Before You Connect a New Computer to the Internet – *www.us-cert.gov/ncas/tips/ST15-003*.
3. Federal Trade Commission: Using IP Cameras Safely – *https://www.consumer.ftc.gov/articles/0382-using-ip-cameras-safely*.
4. Wi-Fi Alliance: Discover Wi-Fi Security – *http://www.wi-fi.org/discover-wi-fi/security*.

Connect, charge and power on the baby monitor

Connect the baby monitor

Notes

- Use only the power adapters supplied with this product.
- Make sure the parent unit and the baby unit are not connected to the switch controlled electric outlets.
- Connect the power adapters in a vertical or floor mount position only. The adapters' prongs are not designed to hold the weight of the parent unit and the baby unit, so do not connect them to any ceiling, under-the-table, or cabinet outlets. Otherwise, the adapters may not properly connect to the outlets.
- Make sure the parent unit, the baby unit and the power adapter cords are out of reach of children.
- To maintain compliance with the FCC's RF exposure guidelines, place the baby unit at least 20cm from nearby persons.

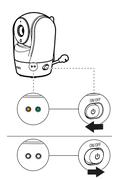


Connect and power on the baby unit

1. Connect the power adapter to the baby unit and a power supply.
2. Slide the **⏻ ON/OFF** switch leftward to power on your baby unit.

Notes

- When powering up, the baby unit's status LED turns on. It will turn off after a while and keeps off.
- The status LED is set to off by default. If you want to keep the LED on, press **MENU**, then go to > **Status LED** and turn it on.



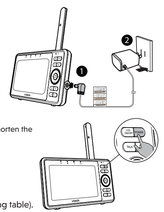
NOTE:
Camera lens and surface may get warm during normal operation.

Charge the battery before use

The parent unit runs on rechargeable battery or AC power. To continuously monitor your baby, keep the parent unit connected to AC power. With the battery alone, the parent unit can cordlessly run for a short time only.

Notes

- Before using the baby monitor for the first time, charge the parent unit battery for 12 hours. When the parent unit battery is fully charged, the battery icon becomes solid .
- It takes longer to charge when the parent unit is turned on. To shorten the charging time, turn the parent unit off while charging.
- The standby time varies depending on your actual use.



After the parent unit is fully charged, press **POWER** until the welcoming screen appears.

The battery icon indicates the battery status (see the following table).

Battery indicators	Battery status	Action
The screen displays and . The flash fashes.	The battery has very little charge and may be used for only a short time.	Charge without interruption (about 30 minutes).
The battery icon becomes solid .	The battery is fully charged.	To keep the battery charged, connect it to AC power when not in use.

Raise the parent unit antenna for better reception

Parent unit icons

Main Menu	Options
Monitoring mode (* For **VM901-2HD** only)	• View baby unit 1 or 2 in **Single** mode. • View both baby units in **Patrol** mode. • View both baby units in **Split** screen.
Melodies and soothing sounds	• Select play all melodies, or play one of the five melodies and four soothing sounds. • You can also set the timer to stop playing after 15, 30 or 60 minutes, or playing non-stop.
Alerts - Sound, motion and temperature	• Select the sound and motion sensitivity level. • Turn on/off sound and motion detection alerts. • Select maximum and minimum temperature for alert range. • Turn on/off temperature alert. • Turn on/off **Auto Wake Up** function.
Parent unit settings	• Adjust parent unit screen brightness. • Turn on/off dim mode.
Baby unit settings	• Turn on/off **Night Vision**. • Turn on/off baby unit's status LED. • Adjust baby unit's speaker volume. • Update baby unit's security key.

Main Menu	Options
General settings	• Connect to home Wi-Fi network. • Turn on/off **Parent unit Wi-Fi Connection.** • Connect mobile phone. • Turn on/off **Low Battery Alert Tone**. • Turn on/off **No Link Alert Tone**.

Status icons

- Direct mode
- Parent unit, baby unit 1 and baby unit 2 ("For **VM901-2HD only**) are connected to each others directly.
- Router mode
- Parent unit, baby unit 1 and baby unit 2 ("For **VM901-2HD only**) are connected to home Wi-Fi network.
- Baby unit 1 and 2 are being viewed in **Patrol** mode ("For **VM901-2HD** only).
- Baby unit 1 and 2 are being viewed in **Split** mode ("For **VM901-2HD** only).
- Night vision is turned on.
- Motion alert is turned on.
- Sound detection alert is turned on.
- Melodies and soothing sounds are turned on.
- 6-level sound indicator
  - indicates low sound level detected by the baby unit.
  - indicates moderate sound level detected by the baby unit.
  - indicates high sound level detected by the baby unit.
- Parent unit speaker is muted.
- Temperature alert is turned on.

Specifications are subject to change without notice.
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