

H.264 Digital Audio/Video

2.4Ghz Wireless **Baby Monitor**

ZOpid[®]

HS-MS264H



The pictures, diagrams and certain functions described in this manual may differ from the actual product due to different firmware version. Please check our support website www.hittusa.com for an updated User Manual or additional troubleshooting tips.

SAFETY AND GENERAL INFORMATION

Important information on safe and efficient operation of this product. Before operating your Wireless Baby Monitor, please read all these safety and operating instructions completely and then retain for future reference.

1. Your Baby Monitor is designed to be an aid and should not be used as a substitute for responsible and proper adult supervision.
2. Do not place the camera on any surface or mount it on any wall where the camera or the AC adapter cords are within baby's reach.
3. Never place the camera inside your baby's crib, bed or playpen.
4. Never cover the camera and monitor (e.g. with clothes, towels or blankets).
5. Position the camera, monitor and AC adapters to allow adequate ventilation.
6. Never use or place your camera and monitor in moist places or near water. For example, do not use near a bathtub, washbowl, laundry tub, kitchen sink, in a wet basement, etc.
7. To prevent overheating, keep the camera, monitor and AC adapters away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers), which produce heat.
8. Keep the camera out of direct sunlight.
9. Disconnect the AC adapter from wall outlets during long periods of non-use.
10. Use only the AC adapters provided. Use of any others may damage the camera and/or monitor.
11. If traveling abroad, make sure that the voltage shown on the power adapters corresponds to the local power, before plugging in the AC adapters into the electric outlets.

FCC Notice to Users

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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

CARE AND MAINTENANCE

1. Keep all parts and accessories out of children's reach.
2. Fingerprints or dirt on the lens surface can adversely affect camera performance. Avoid touching the lens with your fingers.
3. Should the lens become dirty, use a blower to blow off dirt and dust, or a soft dry cloth to wipe the lens.
4. Keep the camera dry. Precipitation, humidity and other liquids contain minerals that will corrode electronic circuits.
5. Do not use or store in dusty, dirty areas.
6. Do not use or store in hot areas. High temperatures can shorten the life of electronic devices and warp or melt certain plastics.
7. Do not store in very cold areas. When the system warms up, the moisture can form inside the case, which may damage electronic circuit boards.
8. Do not attempt to open the case. Non-expert handling of the device may damage the system.
9. Avoid dropping or strong shocks.
10. Operate the product using only the AC adapters included or provided as an accessory.
11. Do not overload electrical outlets or extension cords. This can result in a fire or an electric shock.

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MAIN FEATURES

- * Digital H.264 encoding & decoding technology
- * Transmit rate: 20-25 Frames/second
- * Transmits up to 600 feet range in open area
- * Friendly On Screen menu for easy adjustments
- * Supports up to 8 cameras
- * Baby Monitor works in 2 modes: Audio & Video or Audio only
- * In auto scan mode, the cycle time between cameras can be adjusted from 10-60 seconds
- * Digital zoom with selectable regions
- * Dynamic audio strength indicators
- * Voice Activation (VOX) Feature
- * Feeding Alarm setup Feature
- * Multi-Language Support
- * Camera can be wall mounted or used on desktop

BOX CONTENT

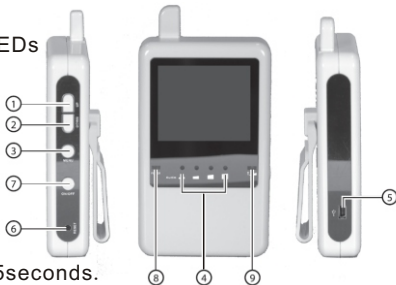
- 1 x transmitter with integrated camera
- 1 x receiver with 2.4" TFT display and loud speaker
- 2 x 5V DC 1000mA adaptors (for Transmitter and receiver)
- 1 x rechargeable lithium ion battery for receiver
- 1 x integrated rechargeable lithium ion battery for transmitter
- 1 x USB cable
- 1 x camera mounting bracket
- 1 x manual

NOTE: You can purchase replacement accessories for the receiver and transmitter.

Please use only original replacement accessories. We shall not accept any responsibility of material damage or personal injury in the event you do not heed these instructions, in which case all guarantee claims shall become null and void.

MONITOR

- ① Up button (Volume adjustment/Select camera/Menu navigation)
- ② Down button (Volume adjustment/Select camera/Menu navigation)
- ③ OK/Menu button
- ④ Visual Volume indicator LEDs
- ⑤ Mini USB connection
- ⑥ RESET button
- ⑦ ON/OFF/ESC button
- ⑧ Power and charging status indicator LED
- ⑨ Signal LED



NOTE: ON/OFF: Press and hold button for 3 to 5 seconds.
ESC: Press and quickly release button.

CAMERA

- ① Only for firmware upgrade
- ② Camera Lens
- ③ RESET button
- ④ Mini USB connection
- ⑤ On/Off/PAIR button
- ⑥ Power and charging status indicator LED
- ⑦ Microphone
- ⑧ Mount hole



NOTE: ON/OFF: Press and hold button for 3 to 5 seconds.
PAIR: Press and quickly release button.

1. PREPARING BABY MONITOR FOR FIRST TIME USE

1.1 INSTALL RECHARGEABLE BATTERY IN RECEIVER



- Open the battery compartment by pressing the battery cover and sliding the cover in the direction of the arrow.
- Insert the rechargeable battery in the mold provided, being careful to respect the polarity (+/-) (see contact surfaces).
- Close the battery compartment.

Warning! There is a danger of explosion in the event the rechargeable batteries are not properly disposed off. Never use conventional batteries only use rechargeable lithium ion batteries.

1.2 USING CAMERA STAND/MOUNT



- Screw the camera on the stand/mount and setup as shown or screw it to a wall or ceiling(screws no included).

1.3 CHARGING RECHARGEABLE BATTERY IN RECEIVER (MONITOR)

The rechargeable battery in the receiver must be fully charged before the device is used for the first time on battery power.

Warning: Replace old rechargeable battery only with original rechargeable battery. Conventional battery must not be used in the receiver.



NOTE: *The receiver will automatically turn on when plugged into AC power or computer's USB port.*

- To charge the rechargeable battery, plug the AC adapter (100-240 V AC/50Hz, 5 V DC/1000mA) into Mini USB socket.
- The battery starts charging automatically once the receiver is connected to AC adapter. When the receiver is turned on, the charging status indicator LED flashes green and the battery symbol on the display flashes. When the receiver is turned off, the charging status indicator LED flashes red and the battery symbol on the display shows battery symbol with charging status.
- The charging time for a fully discharged rechargeable battery when the device is turned off is approximately 5 hours. The charging time is doubled if the receiver is turned on while the battery is being charged. The charging status indicator LED stops flashing when the battery is fully charged.

Receiver battery can be charged using AC adapter or via computer's USB port using a USB cable.

1.4 CHARGING RECHARGEABLE BATTERY IN TRANSMITTER (CAMERA)

The rechargeable battery supplied with the transmitter (camera) must be fully charged before it is used for the first time on battery power.

Warning: Only qualified technicians or our technical staff is authorized to change the rechargeable battery in the transmitter!



NOTE: *The transmitter automatically turns on and the battery starts getting charged when AC adapter or a USB cable connected to a computer is plugged into the MINI USB socket on the transmitter.*

- When the transmitter is turned on and the battery is getting charged, the power status LED flashes green, and once the battery is fully charged the LED becomes solid. When the transmitter is turned off and the battery is getting charged the power status LED flashes red and once the battery is fully charged the LED turns off.
- The charging time for a fully discharged rechargeable battery when the device is turned off is approximately 5 hours. The charging time doubles if the transmitter is turned on while the battery is getting charged.

2. USING THE TRANSMITTER(CAMERA)

- For optimal transmission, place the camera in the room to be monitored in such a way as to ensure the optimal surveillance of your baby or the elderly.
You can also mount the camera using the stand included as described in section 1.3(hardware to mount the stand to a wall or ceiling not included).

Note : For safety reasons and for optimum sound transmission we recommend that you keep the transmitter at least 1 meter(3 feet) form the baby.

IMPORTANT : Never place camera in the baby's cot, bed or playpen!

NOTE : *The transmitter will automatically turn on when plugged into AC adapter or computer.*

- The transmitter can be powered with the AC adapter, the rechargeable battery, or via computer 's USB port using a USB cable.
- To use the rechargeable battery, the device shall be turned on without the AC adapter plugged in.
- The transmitter turns on when the ON/OFF/PAIR button is pressed for 5 seconds. As soon as the camera is powered on the LED indicator turns solid green or flashes green to indicate the camera is powered on.
To turn camera off, press ON/OFF/PAIR button for 5 seconds.
- When the battery voltage falls below 3.6V the Power Indicator LED turns red from green, indicating the battery needs to be charged.

The receiver displays "Camera battery is low" on the screen.

IMPORTANT : In case of audio or video interference press and release RESET button to switch transmitter to a different channel.

3. USING THE RECEIVER(MOINTOR)

- Select flat surface to place the receiver.
- Power can be supplied to the receiver by using AC adapter, rechargeable battery, or from computer's USB port using a USB cable.

NOTE: *The receiver automatically turn on when power is supplied using an AC adapter or via computer's USB port.*

- The receiver can also be powered on when the ON/OFF/ESC button is pressed for 3 seconds. The power status indicator turns green and the welcome screen is displayed. After a short start-up phase the video from camera is displayed or CONNECTING CAMERA 1. message is displayed on the monitor screen.

Pressing ON/OFF/ESC button for 3 seconds turns monitor off.

Note: If the camera is powered ON and within range but the monitor displays: CONNECTING CAMERA 1. Please reregister camera. The camera can be registered via the MULTI CAMERA menu option, see section 4.5 for details.

- When the monitor is plugged into AC adapter or computer's USB port, charging status indicator LED flashes indicating battery is getting charged.

4. RECEIVER (MONITOR) MAIN MENU

Use the following buttons to navigate:

MENU/OK button - - to display main menu and to confirm selection
press MENU/OK button.

UP and DOWN buttons - - to move through individual menu options
or change volume and brightness.

ON/OFF/ESC button - - to return to the main menu (press and quickly
release.)

NOTE: All selections must be made within approximately 10 seconds, else the monitor will return to audio/video mode.

4.1 MAIN MENU

Press the Menu button to display Main Menu on the monitor screen, use navigation keys to pick a menu option and then OK button to confirm selection. Press Esc key to exit from the Main Menu.



Menu/OK → Main Menu

4.2 VOLUME

Use this option to adjust volume.



Menu/OK → Main Menu → Volume

Use up or down navigation keys to adjust volume.

NOTE: If up and down navigation keys are not assigned to manually switch between cameras (see section 4.11 for details) the Volume can also be adjusted directly by using Up (Vol+) and down (Vol-) navigation keys.

4.3 BRIGHTNESS

Use this option to adjust screen brightness.



Menu/OK → Main Menu → Brightness

Use up or down navigation keys to adjust brightness.

4.4 ZOOM IN

Use this option to enlarge the picture or zoom in on a specific region of the picture.



Menu/OK → Main Menu → Brightness

4.5 REGISTER CAMERA

Use this option to register camera if it is not already registered, before using it for the first time. This menu option is also used to register additional camera(s). This monitor supports up to 8 cameras. A camera must be registered before the monitor can receive audio/video from it.

Before registering camera please turn on both the receiver and transmitter.



Menu/OK → Main Menu → Multi Camera → Register Camera → Camera 1 → Register Camera 1? → Yes
On transmitter/camera → On/Off

Note: *Press and quickly release* the ON/OFF button on the **CAMERA** to complete pairing process.

'Thumbs up' sign is displayed on the camera list next to registered cameras. And the camera number LED turns blue. Choose "No" to cancel the registration operation.

NOTE: If the registration process is not successful, repeat this process again.

You can unregister a camera in the event that you no longer need it. This is done the same way a camera is registered.

4.6 CAMERA SELECTION

Use this option to manually select registered cameras or enable Auto Scan mode.



Menu/OK → Main Menu → Multi Camera
→ Camera Selection → Manual Selection

Select any of the registered cameras (Thumbs up sign next to the camera) to watch.



Menu/OK → Main Menu → Multi Camera
→ Camera Selection → Auto Scan

Use this option to select cycle time for camera display. Each registered camera gets displayed on the monitor for the duration selected under Auto Scan.

IMPORTANT NOTE: To disable auto scan or if only one camera is registered, set Auto scan to "Never".

4.7 ALARM(MORNING CALL)

This option is used to set individual FEEDING ALARMS and the MORNING CALL.



Menu/OK → Main Menu → Alarm → Morning Call

In order to set the respective alarm, select ALARM TIME. Using the UP and DOWN buttons to change the hours and minutes. Pressing MENU/OK button to move from hours to minutes. Press MENU/OK once more in order to confirm the setting.

NOTE: ALARM STATUS must be turned on to use Alarm function. Off is default setting.

The FEEDING ALARM is set the same way as MORNING CALL.

4.8 SETTINGS(DATE AND TIME)

Use this option to set the date, time and the time format (12hour/24hour).



Menu/OK → Main Menu → Settings → Date and Time

4.9 SETTINGS(CLOSE VIDEO TIME)

Use this option to set the standby time to turn off screen to save power or setup Audio Only mode.

If the camera does not detect sound in the set time, the screen turns off automatically and switches to audio only mode.



Menu/OK → Main Menu → Settings → Close video time
→ Never, 15, 30, 60, 90, 120

If you want the audio and video to be on all the time, set close video time to "Never".

4.10 SETTINGS(SENSITIVITY)

The screen turns on automatically when the camera detects sound, and the sound level is louder than the set sensitivity. There are 3 levels of sensitivity to choose from Low, Medium, High. Or you choose "Never" under close video Time to disable Audio Only mode.



Menu/OK → Main Menu → Settings → Voice Activation
→ Sensitivity → Low, Medium, High

IMPORTANT: Voice Activation feature (switching from audio only mode to audio/video mode) can be disabled by setting activation sensitivity to "Never" (Sound is always on when activation sensitivity is set to "Never").

When Activation sensitivity is set to "Never" and monitor is in Audio Only Mode, the monitor will not switch to audio/video mode when sound is detected, it will only switch to audio/video mode if a key is pressed on the monitor.

Note: In Audio/Video mode, when there is no sound detected above set sensitivity level for 5 minutes, the speaker sound is muted. The sound is activated when sound above set sensitivity level is detected. Sound does not mute when sensitivity is set to "Never". See Table on next page for details.

4.11 SETTINGS(UP&DOWN BUTTONS FUNCTION)

Use this option to assign function to the UP and DOWN buttons on the monitor. By default, up and down buttons are assigned Volume control function, but if multiple cameras are being used and you want to manually switch between cameras, then use this menu option to assign Camera Selection function to up and down buttons.

NOTE: Once camera selection is assigned to the Up and Down button the Volume menu option must be used from the Main Menu to adjust volume (see section 4.2).



Menu/OK → Main Menu → Settings
→ Up&Down Buttons Function

4.12 SETTINGS(BACKGROUND)

Use this option to select blue background or no background (black). Blue or black background is displayed when an error message is displayed on the monitor or when monitor is switching between cameras (multi-camera in use).



Menu/OK → Main Menu → Settings → Background Display

Close Video Time	Voice Activation Sensitivity	Monitor Mode	Notes
Never	Never	Audio & Video always on	Speaker never mutes , and Audio & Video are always on.
Never	Low, Medium, High	Audio & Video always on	Speaker volume mutes after no sound is detected above the sensitivity level set for 5 minutes (video stays on). Volume is activated when sound above sensitivity level setting is detected
15, 30, 60, 90	Never	Switches to Audio Only mode (Black Screen) after time setting in Close Video Time has passed without sound detection	Speaker never mutes. Once monitor switches to Audio Only mode, it stays in that mode even when sound is detected. The only way monitor switches back to audio & video mode (displays video from the camera) is if a key is pressed on the monitor.
15, 30, 60, 90	Low, Medium, High	Switches to Audio Only mode (Black Screen) after time setting in Close Video Time has passed without sound detection	Speaker volume mutes after no sound is detected above the sensitivity level set for 5 minutes. Once monitor is in power save mode (Black Screen), it switches back to Audio & Video mode when sound above sensitivity level setting is detected

4.13 LANGUAGE

Use this option to set the Screen Menu Display Language, choose from 5 different languages: English, French, German, Italian or Spanish.



Menu/OK → Main Menu → Languages

4.14 SETTINGS(SYSTEM INFORMATION)

Use this option to display System ID, firmware version and firmware release date.






Menu/OK → Main Menu → Settings → System Information



5.ADDITIONAL REMARKS

5.1 BATTERY STATUS

The battery status indicator displays  4 different charging states. When the solid battery symbol  is displayed, the rechargeable battery is fully charged.

The battery symbol  flashes when the rechargeable battery needs to be charged.

5.2 ALARM

If an alarm is set, the alarm symbol  will appear on the display.

5.4 SIGNAL STRENGTH INDICATOR

The signal strength indicator  works similar to mobile phone signal strength indicator, the signal bars change indicating camera signal strength.

5.5 RANGE

Transmission of wireless signal depends on the physical conditions, you can determine the range of your baby monitor by testing it in your surroundings. In open area under ideal conditions achieve a range of up to 200 m(600 feet). The actual range depends mainly on conditions like the location of the transmitter, the type of building construction material and presence of other wireless devices.

FREQUENTLY ASKED QUESTIONS (FAQ) and TROUBLESHOOTING TIPS

Why is the monitor not getting any audio and video from the additional camera I purchased for the baby monitor?

The additional camera must be first registered/paired with the monitor. See section on Register Camera for pairing instructions.

Why am I getting “Camera 1 unregistered...” error message?

Camera was mistakenly unregistered or the camera battery completely lost its charge causing the pairing information to be deleted from the memory. The camera and monitor must be paired/registered to receive audio and video signal from the camera. See section on Register Camera for pairing instructions.

What is the indoor signal range?

100 -175 feet of effective range is a good estimate.

Indoor signal range depends on a number of factors like the number of walls and ceilings the signal has to go through as well as the construction material (sheetrock vs. brick/concrete) and also very much on the presence of other wireless devices (wireless network, cordless phones, etc.).

Why does monitor intermittently displays “Connecting camera 1...” error message and/or a black screen (no video).

This problem is normally caused by presence of other wireless devices, especially a wireless network router/adaptor or another wireless Audio/Video device using 2.4GHz wireless frequency.

We recommend to:

- Press RESET button on the camera to change communication channel between camera and monitor.
- Change the wireless channel setting on the router from AUTO to either lower channels 2 or 3 (if that does not help then upper channels 10 or 11) to reduce interference from wireless network.
- If possible, do not keep other wireless devices within 10-15 feet from camera and monitor.

Why does monitor display "Camera 1 unavailable..." error message? "Camera 1 unavailable" message normally appears if you are using single camera (or only one camera is registered) but you have set Auto Scan to a setting other than "Never".

Please make sure that if you have one camera or only one camera is registered then Auto Scan is set to "Never" under Multi-Camera → Camera Selection.

Also make sure that only the camera number that has thumbs up sign next to it (or one of the cameras with thumbs up sign next to it) under Multi-Camera → Camera Selection → Manual Selection is selected (highlighted in RED)

Why doesn't my monitor work on rechargeable battery even when the battery charging level indicator shows battery is fully charged?

If the battery charging level indicator shows battery is fully charged as soon as you plug the AC adapter to the monitor, then it's possible that the battery is not installed properly.

When battery is not installed properly or is not in the battery compartment, the monitor will display battery fully charged sign as soon as it's plugged in to AC power.

Please make sure that when you insert the battery in the battery compartment you first insert the front part aligning the metal contacts on the battery with the metal contacts inside the battery compartment, and then while pushing the battery up (towards the battery compartment), push the back end into the battery compartment.

If the battery is still not recognized by the monitor, then there is a good chance that the pin(s) inside the battery compartment are bent, which can happen if the battery is forced into the battery compartment. To fix this problem, make sure the AC adapter is not connected to the monitor, remove rechargeable battery, use tip of a pen - stick it under neath one of the metal pins and push it up (apply slight force). Repeat the same with the other pin(s). Then reinsert the battery following instructions above and try using the monitor.

Why doesn't battery last too long (less than two hours after fully charged)?

To maximize battery usage, please follow these steps:

1. Reset the monitor while getting charged (press small black button below ON/OFF button using tip of a pen)
2. Charge the battery for at least 8 hours
3. Unplug AC adapter and use monitor on battery power until it shuts down by itself
4. Repeat steps 2 and 3 for 2 more times.

With each charge you will find the battery lasts longer than the previous time. If you do not use monitor on battery power on a regular basis, then we recommend that at least one a week use the monitor on battery power until it shuts down on its own, to optimize battery usage and life.

What if my question was not answered here?

Please email your question(s) to help@hittusa.com

Limited 1 Year Warranty

Coverage: Hi-Tech Trading (USA), Inc. (“HiTT”) warrants this product (“Product”) against defects in materials and workmanship under normal consumer use for 1 year from the date of purchase. HiTT, at its option, will at no charge repair, replace or refund the purchase price of this Product should it not conform to this warranty. This limited warranty is a consumer's exclusive remedy, extends only to the first consumer purchaser, is not transferable and is valid only on Products purchased by consumers in the United States or Canada.

Exclusions:

Normal Wear and Tear: Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.

Batteries: Only batteries whose fully charged capacity falls below 60% of their rated capacity and batteries that leak are covered by this limited warranty. Battery usage estimates are only based upon our engineering testing. Actual performance will vary based on product settings, environmental conditions, and usage. Battery capacity decreases over time and use

Miscellaneous: This warranty does NOT cover defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the Product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Product for commercial purposes or subjecting the Product to abnormal usage or conditions; (d) service, installation, alteration, or modification in any way by someone other than HiTT and, (e) other acts which are not the fault of HiTT.

Obtaining Service: To obtain service or information, please send email to help @hittusa.com. You will receive instructions on how to ship the Product, at your expense, to a HiTT Service Center. To obtain service, you must include a copy of your receipt.

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