Baby Monitor User Manual

BM501HD

Thank you very much for choosing our product. You are our most valued customer, and we are committed to providing you with the best service possible. We hope you enjoy our product and the high-quality service we offer.

This user manual is designed to provide you with a comprehensive understanding of this product and help you address any issues you might encounter while using it. Please read the user guide carefully before using the device.

Safety Instructions:

- **Keep power cords out of the reach of infants to prevent the risk of entanglement and choking hazards.**

- **Do not place the camera or power source inside a child's crib or bed.**

- **This baby monitor complies with all relevant standards related to electromagnetic fields, and it can be used safely when operated according to the instructions in the user guide. Therefore, please read the instructions in the user guide carefully before using the device.**

- **Assembly should be performed by adults.**

- **This baby monitor cannot replace the responsibility of adult supervision.**

- **Keep this user guide stored safely for future reference.**

- **Do not use towels or blankets to cover the baby monitor.**

- **Avoid using the baby monitor near water.**

- **Do not install the baby monitor near heat sources.**

- **Use only the provided power cord and the appropriate adapter, as using incompatible accessories may damage the equipment.**

Installation Instructions:

(1) Attach the mounting bracket to the wall near the baby's crib, ensuring that the bracket's height from the power outlet is less than 1.5 meters. Then, use the included bolts to securely mount the camera onto the bracket. (We recommend testing the camera's connection with the display screen before mounting the camera onto the bracket.)

(2) Use cable clips to secure the power cord to the wall. First, attach double-sided adhesive to the back of the clip, and then stick the clip to the wall.

(3) Adjust the camera's lens angle by rotating the bracket using the bolts until you achieve a satisfactory image range on the display screen.

(Illustration of Installation)

● Assembly should be performed by adults. Keep small parts away from children during assembly.

● This product cannot replace adult supervision. Regularly check the baby's health to ensure their well-being.

● This device is for indoor use only.

● This product and its packaging are not intended for use as toys. Keep them out of reach of children.

● Warning: To prevent the product from falling and causing injury, ensure that the monitor is installed in a stable location with securely tightened screws.

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1. Product Overview

This system consists of two components: a receiving display screen and a camera.

1.1 Baby Monitor Camera Appearance
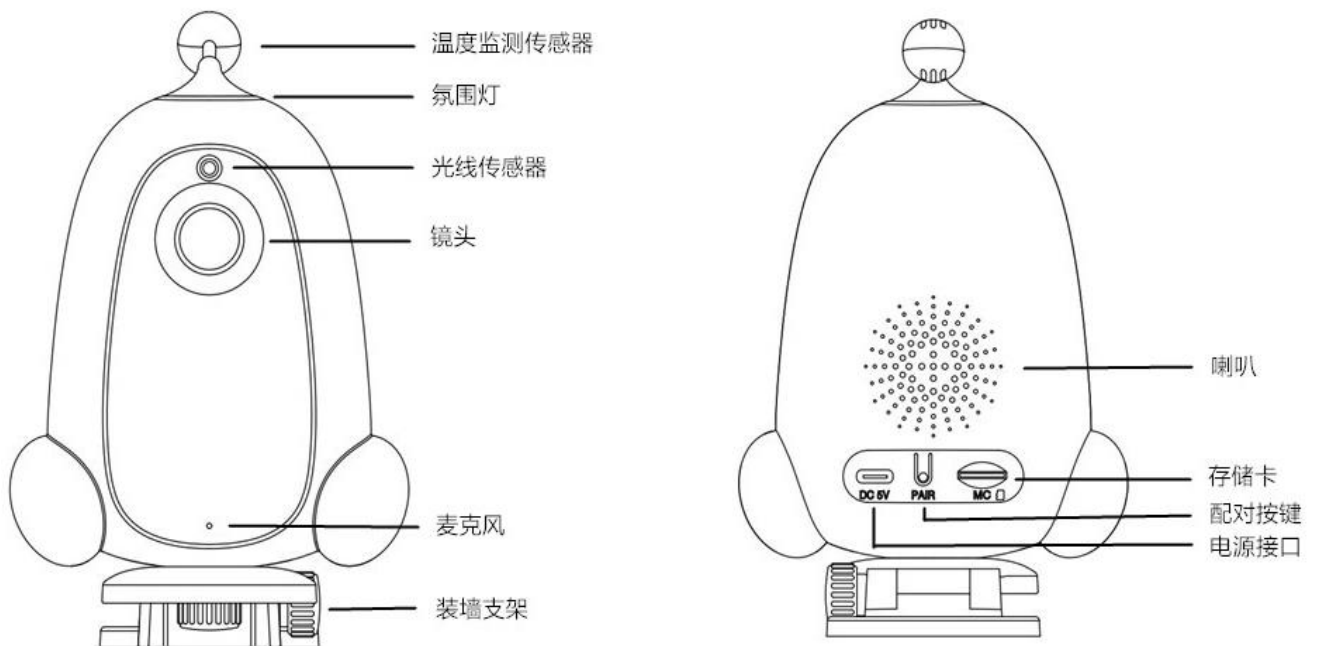
1.2 Monitor Display Appearance
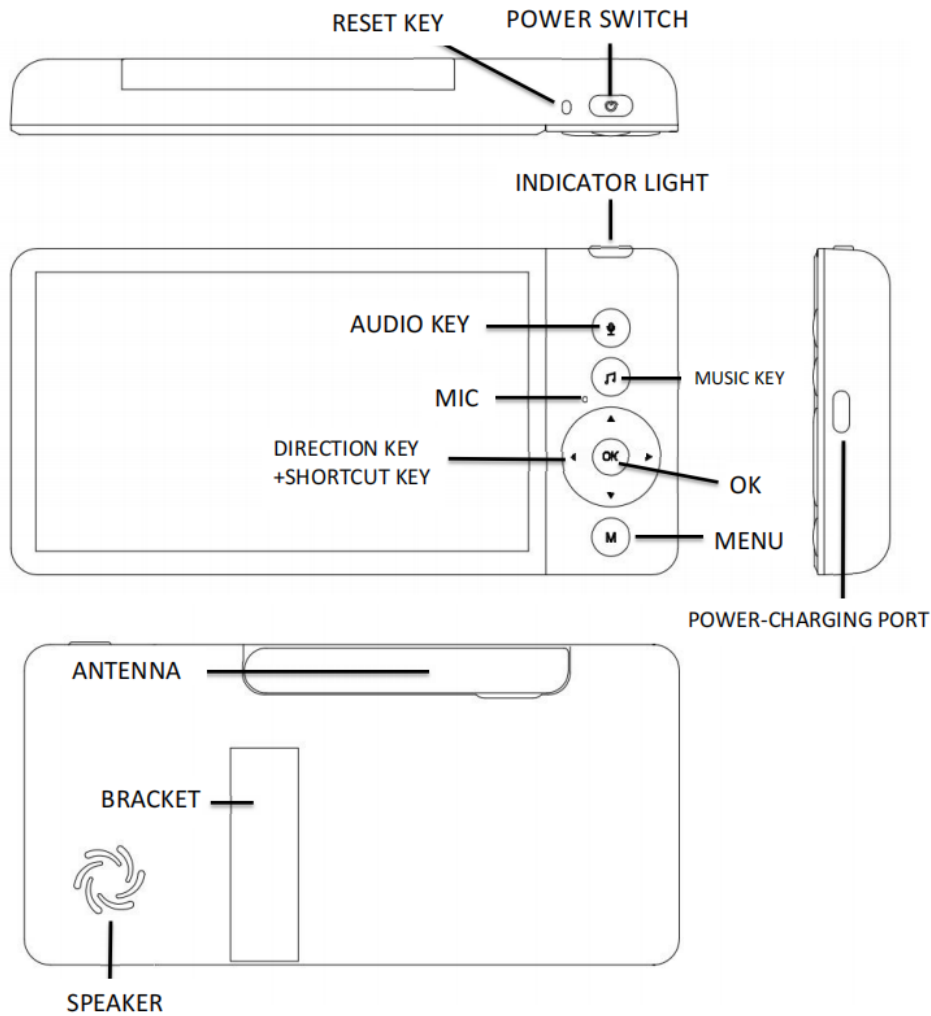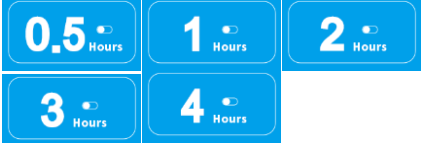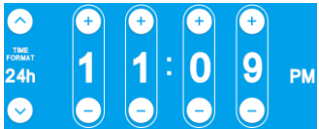
1.3 Explanation of Display Screen Status Bar Icons

	WiFi Signal Strength Levels
	No WiFi Signal
	Camera 1
	Camera 2
	Switch Cameras
	Turn off Lullaby Playback
	Volume Level
	Intercom Mode
	Night Vision Mode
	SD Card Detected
VOX	Environmental Sound and Crying Detection

		Environment Temperature Display
24℃		Environment Temperature Display
05:51		System Time
(battery icon)		Battery Level

1.4 Explanation of Display Screen Menu

Cam	Camera Settings (Add/Delete/Switch)	
Feeder	Feeding Reminder Time Settings	0.5 Hours 1 Hours 2 Hours 3 Hours 4 Hours
Lullaby	Lullaby Selection (8 Lullabies Pre-install)	LULLABY 1 2 3 4 5 6 7 8
Time	Display Screen System Time Settings	TIME FORMAT 24h 1 1 : 0 9 PM
Temp	Temperature Format Settings (Celsius / Fahrenheit, Temperature Alarm On/Off)	°F ℃
Volume	Volume Settings (8 Levels)	(volume slider)
Decibel	Crying and Environmental Sound Detection On/Off, and High/Medium/Low Sensitivity Settings	HIGH MED LOW OFF
Brightness	Ambient Light On/Off, Display Screen Brightness Settings	Ambient light ON OFF Display brightness (slider)

2. Getting Started

2.1 Power On and Off

(1) Connect the USB-C plug of the power adapter to both the monitor (using the 1.5-meter power cable) and the screen (using the 1-meter power cable). Then plug the power adapter into a 110-240V AC outlet. (2 power adapters and 2 charging cables are included in the package.)

(2) After connecting the power, the baby monitor will automatically power on, and the ambient light will illuminate.

(3) To power on the screen, press and hold the power button ⏻ for 3 seconds. To turn it off, press and hold the power button ⏻ for 3 seconds again.
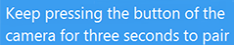
2.2 Pairing

Under normal circumstances, the camera and the display screen are pre-paired when they leave the factory. Therefore, after powering on, you can immediately view the real-time camera feed on the display screen. If the camera monitor and the screen do not pair automatically or if you need to add another 2nd camera to the display, follow these steps:

(1) Screen Pairing: To initiate pairing, press the Menu button M to access the main menu.

Use the ◄ or ► buttons to select and press OK. In the subsequent pop-up window,

continue using the ◄ or ► buttons to select either "Add" and then "Pair"

or and press OK. The screen's blue LED indicator will start blinking, accompanied by

on-screen pairing instructions Keep pressing the button of the camera for three seconds to pair . Once the screen and monitor have successfully paired, the blue LED indicator will stop blinking. If no device pairs within 30 seconds, the pairing mode will exit automatically. You can also exit the pairing mode by holding the button for 1.5 seconds within the first 30 seconds. (Note that one display monitor can pair with up to 2 cameras simultaneously.)

(2) Camera Pairing: Power on the camera device by connecting the USB-C power cable.

Long-press the Pair button ⚲ for 3 seconds on the camera to enter pairing mode. The ambient light will begin blinking, indicating pairing mode. When the monitor and camera have successfully paired, the blinking will stop. The pairing mode will exit automatically if there is no device paired within 1 minute. (Note: Each camera can only connect to a single monitor.)

2.3 Viewing Monitor Images

When the monitor and the display screen are both powered on, the display screen will show the images transmitted by the monitor. (If the display screen doesn't show images correctly, please check the pairing status).

(1) If pairing is unsuccessful, refer to the pairing instructions and reattempt the pairing process.

(2) Use the menu button ⓂM to navigate back to the main menu, and from the "Add Monitor" menu, select the monitor you wish to view.

Please make sure to check the pairing status if you encounter any issues with the image display on the screen.

3. Camera Buttons

3.1 Functions of Monitor Buttons

Pairing Mode: Press and hold ⛄ for 3 seconds to enter pairing mode; it will automatically exit pairing mode after 1 minute.

SD Card Format：After pressing and holding ⛄ for 3 seconds to enter pairing mode, the ambient light enters a slow flashing mode. Press and hold ⛄ for an additional 3 seconds to enter SD card formatting mode; the ambient light will begin fast flashing. Once formatting is complete, the indicator light will return to a steady, constant light, indicating successful formatting and a return to monitoring mode.

3.2 Night Vision Mode

The monitor features 8 infrared LEDs (940nm). When night vision mode is activated, there is no visible red light, ensuring it won't disturb your baby's sleep. It can capture clear black and white images in low-light conditions. The top status bar on the screen will display the night vision icon 🌙 when the infrared LEDs are active.
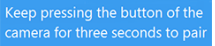
4. Display Screen Menu

4.1 Monitor Settings

(1) Press the Menu button Ⓜ to enter the main menu.

(2) Use the ◀ left button or ▶ right button to select [Cam], and press OK ⓄⓀ to enter [three option icons] the three options interface.

(3) Select the "Binding" option, press OK to pair with any of the available cameras

(CAM1 or CAM2). It will display camera operation instructions ,
and after a successful pairing, it will automatically switch to the bound camera's feed.

(4) Select the "Delete" option, press OK to delete the currently paired CAM1

 or CAM2 camera.

(5) Select the "Cruise" option, press OK to view CAM1 and CAM2

 feeds, or select the "Cruise" option and press OK . It will automatically
cycle between CAM1 and CAM2 feeds every 15 seconds.

4.2 Intercom Mode

(1) To enter intercom mode on the display screen, press and hold the button on the

display screen. You can start speaking while holding the button and release it when

you're done. After releasing the button, the system will automatically enter the camera's
monitor mode.

4.3 Volume Adjustment

(1) Press the Menu button to enter the main menu.

(2) Use the ◀ left button or ▶ right button to select the volume icon , and then press

OK to enter the volume adjustment interface. Use the ◀ or ▶ buttons to increase or

decrease the volume .

(3) Shortcut Keys: While viewing the monitoring screen, you can quickly adjust the volume
by pressing the left or right buttons.

4.4 Feeding Reminder

(1) Press the Menu button ⓜ to enter the main menu.

(2) Use the ◄ left button or ► right button to select the Feeder icon and press OK ⓞⓚ .

(3) Use the ◄ left button or ► right button to choose the feeding reminder alarm time (0.5h, 1h, 2h, 3h, 4h).

(4) If a reminder time is selected, the display screen will sound an alarm every 0.5h, 1h, 2h, 3h, or 4h and display a blinking feeding reminder icon. You can press any key to stop the alarm.

(5) Use the ◄ left button or ► right button to select **OFF** and press ⓞⓚ key to cancel the reminder.

4.5 Lullabies

(1) Press the Menu button ⓜ to enter the main menu.

(2) Use the ◄ left button or ► right button to select the Lullaby icon and press OK ⓞⓚ .

(3) In the pop-up window, use the ▲ up button or ▼ down button, or the ◄ left button or ►
right button to choose your desired lullaby from the available 8 lullabies. Click OK ⓞⓚ to
confirm. To play all lullabies in a loop, select the icon and press OK ⓞⓚ . To cancel
lullaby playback, press key. Press menu button ⓜ to exit to main menu.

(4) Shortcut Keys: Press the ♫ button on the display screen for quick access to lullaby playback.

4.6 System Time Setting

(1) Press the Menu button ⓜ to enter the main menu.

(2) Use the ◄ left button or ► right button to select the icon Time and press OK ⓞⓚ .

(3) In the pop-up menu, use the ◄ left button or ► right button to choose between 12/24-
hour time format and sequentially adjust the hours, minutes, and seconds. When using the 12-
hour format, you'll also need to select AM or PM. After adjusting the time, press OK ⓞⓚ to
confirm.

4.7 Temperature Display

(1) Press the Menu button to enter the main menu.

(2) Use the ◀ left button or ▶ right button to select the icon and press OK .

(3) In the pop-up window, use the ◀ left button or ▶ right button to choose the temperature unit (Celsius or Fahrenheit) and press OK .

(4) Select Short Press , and use the ◀ left button or ▶ right button to choose the temperature alarm range, Press OK to confirm. Or press key to turn off the temperature alarm sound. Select to turn on the alarm again.

(5) The screen's status bar will display the temperature reading from the temperature sensor on the monitor. If the ambient temperature is higher than the set maximum temperature, the display screen will show a red icon . If the temperature is lower than the set minimum temperature, the display screen will display an blue icon and emit a "BB..." beeping sound. You can press any key to stop the "BB..." beeping sound under either temperature anomaly. If the temperature does not return to the set temperature range, it will automatically resume the "BB..." beeping sound after 30 seconds.

4.8 Sound Monitoring and Alarm Settings

Sound Monitoring: Enable the sound monitoring alarm mode, and the screen will turn off after 30 seconds. When the ambient volume in the camera's vicinity or your baby's crying reaches the preset level, the display screen will illuminate.

(1) Press the button to access the main menu.

(2) Use the ◀ left button or ▶ right button to select and press to enter.

(3) Choose from three options: low, medium, or high. Press OK to activate the sound monitoring and alarm mode, or choose to deactivate it.

(4) In the sound monitoring and alarm off mode, a quick button press will swiftly activate the sound monitoring and alarm mode. (Quickly entering sound monitoring and alarm mode will only turn off the display while maintaining audio transmission from the camera).

Note: When sound monitoring alarm is deactivated while powered on, a single press of the power button will turn off the screen, allowing you to listen to sounds from the camera side at any time. This mode is suitable for times when you need to step away while your baby is playing. When the sound monitoring alarm mode is enabled, both the screen and audio will turn

off after 30 seconds. The screen will illuminate, and the speaker will produce sound when the ambient sound from the camera exceeds the set threshold. This mode is ideal for nighttime use.

4.9 Display Brightness Adjustment and Ambient Light Control

(1) Press the button M to access the main interface.

(2) Use the ◄ left button or ► right button to select **Brightness** and press OK to enter.

a. Display Brightness Adjustment: Press the up and down keys to select **Display brightness**, and use the ◄ or ► button to quickly increase or decrease the display brightness. There are 8 levels of brightness . (Shortcut: While monitoring the screen interface, use the up and down keys to swiftly adjust brightness).

b. Ambient Light Control: Use the up and down keys to select **Ambient light**. Press the ◄ or ► button for on or off ON OFF, and then press the OK button to confirm your choice.

5. Video Recording

The Micro SD card slot (128G Max Supported) is intended for storing video recording files on the camera unit. Since this device operates as a locally connected device and does not support internet access, there is no need to be concerned about your information being compromised.

(1) Upon inserting the SD card into the camera's card slot, the main display screen will display a successful detection prompt.

(2) On the screen monitoring interface, press and hold the button OK for 2 seconds to initiate video recording. A flashing indicator will appear on the screen. To stop recording, press and hold the button OK for 2 seconds once more to exit recording mode.

(3) When the memory card reaches full capacity, it will automatically overwrite and loop the recording. To view the recorded videos, you'll need to remove the memory card and view it on a computer.

(4) Formatting the Memory Card: To format the memory card, double-click the pairing button.

(5) For video playback, the recorded videos are stored on the Micro SD card in AVI format files. Please note that the camera monitor device does not support on-device video playback. To view the recorded videos, you will need to eject the SD card and play the files on a PC or MAC computer.

6. Battery Power

The icons on top of screen to showing the current battery status. indicates a low battery level, and the low battery reminder "Low Battery, BB..." will activate. After 5 consecutive beeps, the beeping will cease, leaving only the "Low Battery" notification active.

7. Signal Strength

(1) Signal Status : If there is a large base station or high-power signal interference equipment in the current environment causing interference to the product , the device's signal will disconnect after 5 seconds . It will provide a reminder by flashing and emitting a single chirp, and after 5 chirps, the reminder sound will only flash .

8. Cleaning and Maintenance

- Use a slightly damp cloth or an anti-static cloth to clean the device. Avoid using detergents or abrasive solvents, thinners, or other chemicals as they may cause damage not covered by the warranty.

- Do not immerse the display screen and monitor in water or clean them under running water.

- Avoid placing the product in areas with high temperature, humidity, or direct sunlight.

- Handle the product with care to prevent dropping or rough handling.

- Ensure that the monitor and display are completely dry before reconnecting the power supply.

9. Frequently Asked Questions and Troubleshooting

(1) Question: Why doesn't the signal cover a large enough distance in the room?

   Answer: A: Check if the receiving antenna on the display terminal is turned on.

         B: Different houses have varying wall materials, which can affect 2.4G signal propagation. If the signal is weak, try adjusting the placement position.

(2) Question: Why is there always background noise?

   Answer: Continuous background noise may be present due to external environmental factors, causing the sound monitoring to remain active.

(3) Question: How can I eliminate the whistling sound?

A: If you experience howling, ensure that the display screen is positioned at least 1.5 meters or more away from the monitor.

Tip: Avoid placing the microphones of the display screen and the monitor directly facing each other. Some users may experience confusion when operating the device due to background noise. This is considered an uncontrollable factor.

(4) Question: Why is the temperature reading inaccurate?

Answer: A: Indoor temperature variations can result in differences in readings due to air circulation.

B: When a temperature sensor is introduced to a new environment, it may exhibit significant errors within the first two hours of operation.

10. Technical Specifications

Model: PHRB01

Display Size: 5 inches

Input Power: DC 5V/2A (Monitor Screen Display Device); DC 5V/1A (Camera device)

Camera Resolution: 1280 x 720P HD

Camera Sensor: CMOS 1/4

Transmission Method: 2.4GHz FHSS

Viewing Angle: 120 degrees

Night Vision Level: No Light Night Vision (Displaying Black and White Images)

Transmission Distance: 300 meters (Open Space) / 30 meters (In House)

Display Device Battery Capacity: 1500 mAh

Display Device Power Consumption: 1.6W

Major Features:

- Wide view angle
- Clear big display
- Super Night Vision
- Real time intercom
- Audible alarm
- Ambient temperature alarm
- Feeding reminder
- Video Recording
- Ambient Light

What Included:

a. 1 x Baby Monitor Camera

b. 1 x 5-Inch Display Screen

c. 1 x User Manual

d. 2 x Power Adapters

e. 2 x Power Cords: 1-Meter Display Charging Cable,

                         1.5-Meter Baby Monitor Power Supply Cable

f. 1 x Set of Wall Mount Brackets

g. 2 x Bracket Bolts and 2 Hex Nuts

h. 2 x Wall Mounting Screws

i. 10 x Wire Buckles and Double-Sided Tape

Installation Tips:

To establish radio communication between your monitor and display, ensure there is an adequate line of sight. Environmental conditions may affect the communication distance.

Obstacles such as large metal objects (e.g., refrigerators, metal doors, or reinforced concrete) can block the radio signal.

Signal strength may be weakened by solid structures (e.g., walls) and interference from radios or electrical equipment (e.g., televisions and computers).

If you experience weak signals, try repositioning the devices indoors.

Keep the display screen and baby monitor at least 1.5 meters apart to prevent feedback howling.

After-Sales Policy:

Thank you for choosing our high-quality product; we hope it brings joy and assistance to your life.

We provide a one-year warranty from the purchase date, excluding any damage.

The warranty becomes void if the product is damaged due to improper use, self-modification, unauthorized self-repair, or improper circuit connection.

Damage to the LCD screen during use is not covered by the warranty.

The warranty is only valid for the original purchaser and is non-transferable.

For after-sales customer service support, please contact us at service@ ???.com.

Environmental Responsibility:

This product should not be disposed of as household waste. Please take it to an appropriate collection facility for recycling. Proper disposal and recycling help protect natural resources, human health, and the environment. For information on disposing and recycling this product, contact your local municipality or disposal service.

FCC Warnning:

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 againstharmful interference in a residential installation. This equipment generates, uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC 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.