

HESTIA H100

Wireless Monitoring System

User Manual

"Care for your loved one"



Warning to all users

Please read carefully this user manual before using the Hestia H100 wireless monitoring system. Failure to follow these warnings and the assembly instructions could result in serious injury or death.

- Keep the AC adapter cords out of the reach of children.
- Protect the AC adapter cords. Make sure that they are not walked on or pinched by furniture or other items.
- Use ONLY the AC adapters provided in this kit. Using other 3rd parties AC adapters may cause fatal damage to the monitoring system.
- Make sure the provided AC adapters are at the same electrical voltage of your country.
- Do not place the monitoring system or its cord within the child reach.
- Provide proper ventilation for the monitoring system when it is operating. Do not cover the Monitor unit and Camera unit with any material, such as a blanket. Do not place the Monitor and Camera units in a poor ventilation area, such as a drawer.
- Do not immerse the monitoring system in water. Clean it only with a dry cloth.
- Do not use the monitoring system near any possible wet areas, such as a bathtub, shower, basin, sink, laundry tub.
- Do not use the monitoring system outdoors.
- Keep the monitoring system away from heat sources, such as fireplaces, radiators, stove.
- Do not attempt to open the Monitor unit, Camera unit and the AC adapters. No user-serviceable parts inside. Risk of electrical shock, fire or death.

FCC Statement :

WARNING : Modifications not authorized by the manufacturer may void users authority to operate this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 following measures:

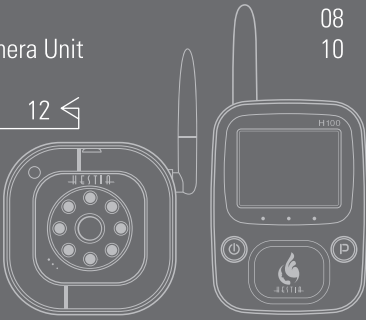
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

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& your body.

Content		
1	Specification	02-03 <
2	Part List	02-03 <
	a. Monitor Unit	
	b. Camera Unit	
3	Installation	04 <
	a. Monitor Unit Installation	
	b. Camera Unit Installation	
4	Operation	05 <
	a. Power On / Off	05
	b. Volume Adjustment	06
	c. Brightness Adjustment	06
	d. VOX / Voice Activation Function	06
	e. Night Vision Function	06
	f. LED Indicators	07
	g. Battery Charging	07
	h. Mounting	08
	i. Pairing / Adding Camera Unit	10
5	Troubleshooting	12 <



1 Specification

● Features :

- Digital 2.4GHz wireless transmission for both video and audio signal.
- Encrypted data transfer to ensure 100% privacy.
- Adopting Frequency Hopping (FHSS) technology to switch between different channels automatically.
- Extended transmission distance for greater than 250m at open area.

- Supports up to 4 camera units simultaneously.
- Automatic night vision function when operating in dim area.
- Remote sound activation (VOX) from camera unit.
- Portable monitor unit with Lithium battery and built-in battery charger.

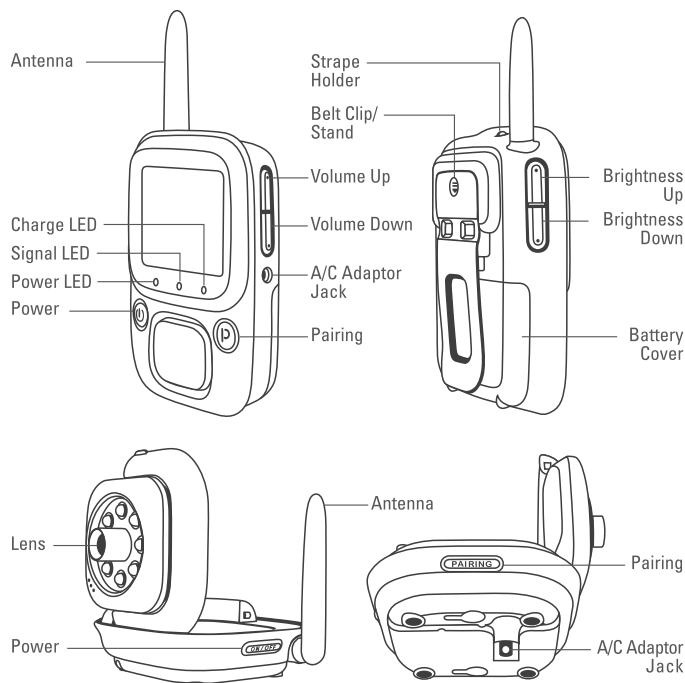
2 Part List

● Monitor unit

Display	2.4" TFT color display at 320x240 resolution
Audio	1W
Frequency	2400-2483.5MHz(auto sselect by Frequency Hopping FHSS)
Pairing	Supports 4 camera units simultaneously
Switches	Power
	Pairing
	Volume +/- (10 steps control)
	Brightness +/- (6 steps control)
LEDs	Power (green), Low Battery (blinking green), Signal Coverage (blue), poor reception (blinking blue), Battery Charging (red)
Activation	Both manual or voice triggered (VOX) from camera unit
OSD	Brightness, Volume, Pairing selection
Battery	Rechargeable Lithium battery
A/C power	6V 1A DC adaptor
Mounting mechanism	Multi-purpose stand + belt clip or wall mounted

● Camera unit

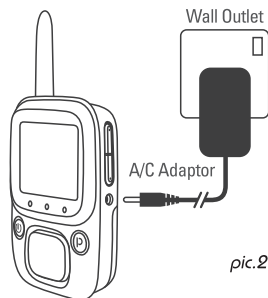
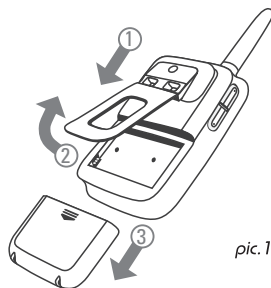
CMOS Sensor	1/6" VGA, 640x480
Lens	F/No 1.8, EFL 2.95mm, BFL 2.488mm
Night vision	8x IR LED
LED	Power
Flipping angle	0 - 90°
Swinging angle	+/- 15°
Microphone	built in
A/C power	6V 1A DC adaptor
Mounting mechanism	Flatbed or wall mounted



3 Installation

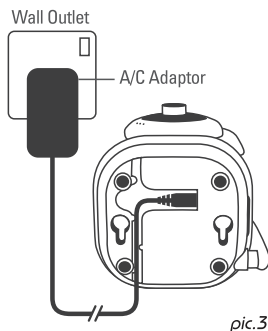
● Monitor Unit Installation

1. As shown in *pic.1*, lift the Belt Clip at the back of Monitor Unit, and remove the battery door.
2. Insert the Lithium battery in correct direction. Make sure the metal contact of battery is in touch with the metal contact in battery bay.
3. Close the battery door.
4. Charge the battery by using the provided A/C adapter. Attach the A/C adapter to the Monitor Unit as shown in *pic.2*. Then plug the AC adapter into the wall outlet.
5. The battery charging process will start automatically (Charge LED on). For first time usage, please keep charging the battery for at least 3 hours until the charge LED goes off.
6. Press **⏻** to power on the Monitor Unit.



● Camera Unit Installation

1. Attached the provided A/C adapter to the Camera Unit as shown in *pic.3*. The power jack is located at the bottom of the Camera Unit. Plug the A/C adapter into the wall outlet.
2. Press **'ON/OFF'** button to power on the Camera Unit.



4 Operation

● Power On / Off


1. To power on the Monitor Unit, press the **⏻** button once. The Power LED will show green colour indicating the Monitor Unit is on.
2. To power on the Camera Unit, press the **'ON/OFF'** button once. The green LED will light up indicating the Camera Unit is on.

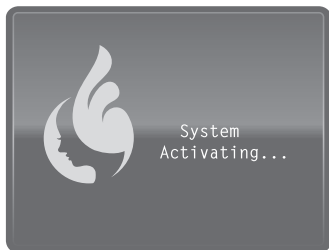
pic.4 shows the opening screen with HESTIA Logo.



3. For power saving purpose, the Monitor Unit will automatically enter Standby mode after inactivity of 180 seconds (3 mins.), and the screen will show as *pic.5*.



4. To resume from stand-by mode, press any button except  button, will awake the system. At the time the system awake, you will see the screen as shown in *pic.6*.




pic.6

5. To power off the Monitor Unit, press and hold the  button for 2 sec.

● Volume Adjustment

By pressing the + /- of 'VOL' button at the right side of the Monitor Unit will adjust the sound volume of the speaker. Press '+' to increase the volume. Press '-' to reduce the volume. The screen shows 0 for mute mode, and 9 for loudest.

● Brightness Adjustment

By pressing the + /- of  button at the left side of the Monitor Unit will adjust the brightness of the display. Press '+' to increase the brightness. Press '-' to reduce the brightness. The screen shows 0 for dimmest and 5 for brightest.

● VOX / Voice Activation

VOX is a build in function of HESTIA H100 system. When the system entered the standby mode, the screen of Monitoring Unit will turn off for energy saving purpose. At the same time, VOX will be activated automatically, and detects the sound level nearby the Camera Unit. Once it reaches the certain level, VOX will awake the Monitoring system from standby mode.

● Night Vision

The Camera Unit have build-in 8 pieces of Infra-red LEDs for picking up clear images in dim area, but not affecting the environmental brightness. When the photo light sensor detects low ambient light level, the night vision function will turn on automatically.

● LED Indicators

Monitor Unit

- | | |
|----------|--|
| • Power | ▶ Green light (Power On)
▶ Blinking green light (Low battery)
▶ Off (Power Off) |
| • Signal | ▶ Blue light (Good Signal Coverage)
▶ Blinking blue light (Marginal Signal Coverage)
▶ Off (No Signal) |
| • Charge | ▶ Red light (Lithium Battery Charging)
▶ Off (Battery Not Charging) |

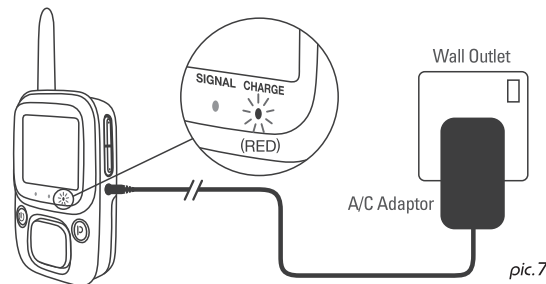
Camera Unit

- | | |
|---------|---|
| • Power | ▶ Green light (Power On)
▶ Off (Power off) |
|---------|---|

● Battery Charging

The Monitor Unit is equipped a rechargeable Lithium battery for portable use. When the Power LED (green) is blinking, it indicates the Lithium battery is at low battery level. You are required to charge your Lithium battery by the provided AC adapter.

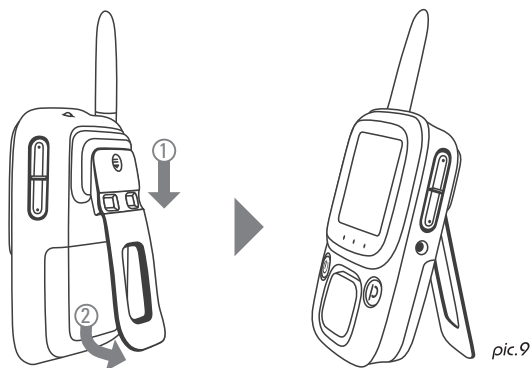
Attach the A/C adapter to the monitor unit, and plug the A/C adapter into the wall outlet. (*pic.7*) The charging process will start automatically and the Charge LED (red) will light up. When the Charge LED goes off, it indicates the battery is full, and you can unplug the A/C adapter from the Monitor Unit.



pic.7

● Mounting

Monitor Unit

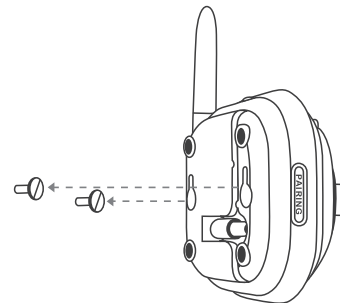


Camera Unit

NOTE : To achieve the best performance of signal transmission, please place the antenna at a vertical position.

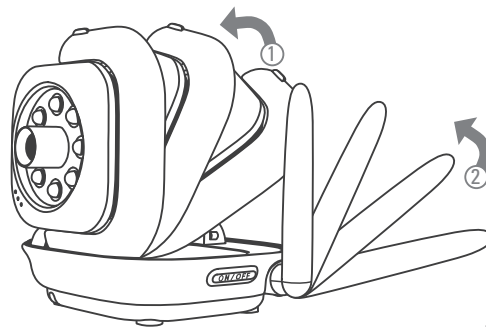
• Wall Mount

Place 2 screws on the wall at 5.5cm pitch. Hook the camera unit on the screws as shown in *pic.10*. Lift the cover plate to adjust the flipping angle (0-90°) or swinging angle (+/-15°).



• Flat Bed





Place the Camera Unit on a solid horizontal plate. Lift the cover plate to adjust the flipping angle (0-90°) or swinging angle (+/-15°).

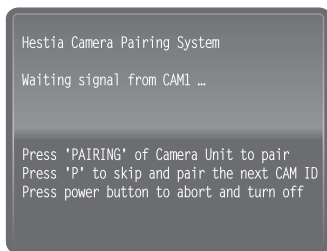


● Pairing / Adding Camera Unit

NOTE : The Monitor Unit and Camera Unit were already paired in manufacturing process. In general, users are not advised to perform any pairing by their own.

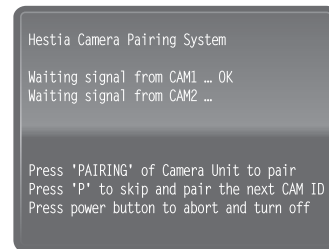
If user have brought another set of HESTIA H100 wireless monitoring system or HESTIA H100 Camera unit, you can pair the new Camera Unit by the following procedures. As a result, the Monitor Unit will support multiple Camera Units simultaneously.



1. Power Off all Monitor Unit and Camera Units.
2. Press and Hold the  Pairing button of the Monitor Unit.
3. Press the  Power button of the Monitor Unit.
4. Release both the  Pairing and  Power button.
5. You will then enter the pairing mode screen as shown below.

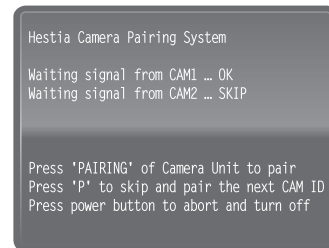



6. Press '**ON/OFF**' button of your Camera Unit to power on your Camera Unit(s).

7. If you have only 1 Camera Unit to pair, press the '**PAIRING**' button on your Camera Unit. If pairing is success, the screen of your Monitor Unit will show below message.



8. If you have only 1 Camera Unit to pair, you can now turn off the Monitor Unit by press and hold  button for 2 seconds. New setting will be saved. Turn on the Monitor Unit again will activate the new setting.
9. If you have more than 1 Camera Unit to pair, you can repeat the above steps with the next Camera Unit(s) until all of them are correctly paired. If you would like to skip pairing of particular Camera ID, press  button of Monitor Unit once.




10. Maximum 4 Camera Units can be paired to the Monitor Unit. The screen will show the correspondent Camera ID number while pairing.
11. Press and hold  button for 2 seconds at any time you have finished the pairing process. You will then shut down the Monitor Unit and new setting will be saved. Turn on the Monitor Unit again will activate the new setting.

5 Trouble Shooting

• If you don't get a screen (Including HESTIA Logo) at all


1. Make sure both the Camera unit and Monitor unit are turned on. The green Power LED will light up and indicated the system is on.
2. If the Power LED (green) is not light up, please check if the A/C adapter is correctly installed and the wall outlet is on. (For trouble shooting purpose, please connect the Monitor Unit to the A/C adapter, besides of using the internal Lithium battery.)
3. If the Power LED (green) is light up, but there is no screen. Please remove the battery and unplug the A/C adapter. Wait for 10 minutes. Plug the A/C adapter back to the Monitor Unit and retry to power on the Monitor Unit.

• If you have seen the opening screen, but nothing afterwards


1. Please check if your Camera unit is turned on. The green Power LED will light up and indicated the system is on.
2. Make sure the Camera unit and Monitor Unit are within range of each other. For trouble shooting purpose, you should remove all the obstacles between two units, and keep shortest distance. (within 5 meters)
3. Press the  button and scan through 4 pre-set camera ID to make sure your Camera Unit was not paired to other pre-set ID.
4. Please remove the battery and unplug the A/C adapter. Wait for 10 minutes. Plug the A/C adapter back to the Monitor Unit and retry to power on the Monitor Unit.
5. If all above steps fail, you are advised to pair the Monitor Unit and Camera Unit. Please following the steps mentioned in *Pairing/Adding Camera Unit*.

• If the screen displays the below picture



1. The Monitor Unit may be out of the signal coverage from the Camera Unit. Remove the obstruction or get closer to the Camera Unit, until the blue LED is on, will re-gain the signal automatically.
2. Try to place both antennas vertically. It gives better effectiveness of signal transmission.
3. Other 2.4GHz or high frequency devices (like WIFI, microwave oven) may interfere the monitoring system. Turn off these devices will give better performance.
4. Press the  button and scan through 4 pre-set camera ID to make sure your Camera Unit was not paired to other pre-set ID.

• Video problem

1. Try to adjust the brightness level by pressing the  (+/-) button until it gives a desirable image.
2. If the colour goes off, it indicates that the Camera Unit is working in a dim area, and the night vision (Infra-red) function is on.

• Sound problem

1. Try to adjust the volume level by pressing the **'VOL'** (+/-) button until it gives a desirable sound level.
2. If you have heard the shrill sound (feedback), you placed the Monitor Unit and Camera Unit too close. Place them apart or lower the volume level will solve the problem.

Do not attempt to open the casing of the system or the battery. Improper use of the system will cause fatal damage. Moreover, the warranty will be void.

"Care for your loved one"

