## DXR-6

## Wireless Digital Video Monitoring System

**User Manual** 





INFANT OPTICS



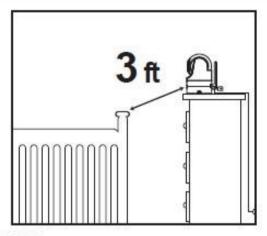
# Table of contents

1. Safety Instructions	2
2. Overview	3
2.1 What's Included	
2.2 Product Overview	
2.3 Menu Options	
3. Getting Started	
3.1 Powering Camera Unit	
3.2 Wall Mounting Camera Unit	
3.3 Monitor Unit Battery Installation	
3.4 Charging and Powering the Monitor Unit	7-8
3.5 Registration (Pairing)	8-9
4. Using the Infant Optics DXR-6 Monitor	10
4.1 Set Up	
4.2 Night Vision Mode	
4.3 Talk Mode	10
4.4 Sleep Mode (Video OFF with Audio ON)	
4.5 Digital Zoom Mode	10
5. DXR-6 Monitor Unit Menu Options	11
5.1 Volume	11
5.2 Brightness	11
5.3 Sleep Mode Delay (Video OFF, Audio ON)	12
5.4 Toggle °C/°F	
5.5 Alarm	12
5.6 Camera Control	
5.6.1 Delete a Camera	
5.6.2 Add (pair) a Camera	
5.6.3 View a Camera	
5.6.4 Scan Camera	
5.7 Warning Volume Setting	
6. Troubleshooting	15-17
7. Specifications	18
8. FCC Regulations	19
9. Warranty Information	20





## 1. Safety Instructions





#### WARNING:

- STRANGULATION HAZARD Keep the cord out of baby's reach. To prevent entanglement, DO NOT place the camera or its adapter cord within reach of your baby.
- NEVER PLACE THE CAMERA OR CORD IN OR NEAR CRIB OR PLAYPEN.
   Secure the cord at least three feet away from crib or playpen.
- SHOCK WARNING To prevent electric shock, NEVER use the transmitter or receiver near water, including near a bathtub, sink, laundry tub, wet basement, etc.
- CAUTION Only insert a battery pack of the same type. Risk of explosion if battery is replaced with an incorrect type.
- · Use only the AC adapters provided.
- Adult assembly is required. Keep small parts away from children when assembling.
- This product is not a toy. Do not allow children to play with it.
- This product is NOT intended to replace proper adult supervision of children.
- You MUST check your child's activity regularly, as this product will not alert parents to silent activities of a child.
- Before using this product, read and follow all instructions and warnings contained in this booklet.
- This product is intended for indoor use only.
- This product is not intended for use as a medical monitor and its use should not replace adult supervision.
- Test monitor before use and after changing camera location. Check reception regularly.
   Obstacles, such as concrete walls, may shorten the wireless signal transfer range.
- Always unplug AC adapters from wall outlets and power sources during periods of non-use.
- Do not touch the plug contacts with sharp or metal objects.

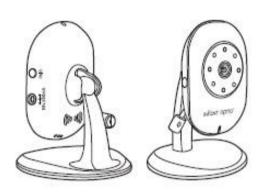


## 2. Overview

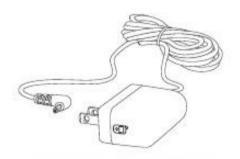
#### 2.1 What's Included



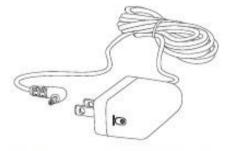
Monitor Unit



Camera Unit



1 x Monitor Power Adapter (5.0V, 550mA)



1 x Camera Power Adapter (5.9V, 550mA)



User Manual

User Manual



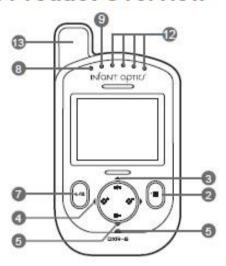
Quick Start Guide

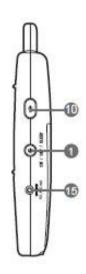


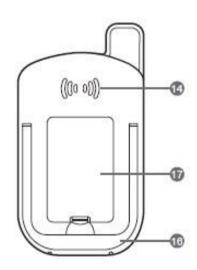
Screw and Anchor



#### 2.2 Product Overview

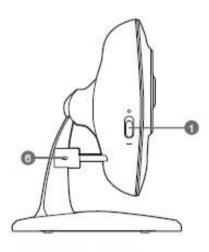


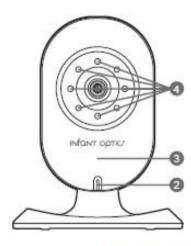


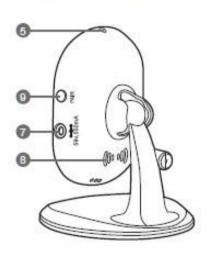


- 1. Power ON/OFF/SLEEP Button
- 2. MENU Button
- 3. + Volume Button (UP Button in Menu)
- 4. + Brightness Button (LEFT Button in Menu)
- 5. Volume Button (DOWN Button in Menu)
- 6. Brightness Button (RIGHT Button in Menu)
- 7. ZOOM/OK Button
- 8. Charging LED Indicator
- 9. Power LED Indicator

- 10. TALK Button
- 11. Microphone
- 12. Volume Level LED
- 13. Antenna
- 14. Speaker
- 15. Power Adaper Connector
- 16. Stand
- 17. Battery Compartment
- 18. Battery Compartment







- 1. ON/OFF Switch
- 2. Microphone
- 3. Power LED
- 4. Infrared LEDs
- Photo Sensor (Night Vision Mode)
- Temperature Sensor
- 7. Power Adaper Connector
- 8. Speaker
- 9. PAIR Key





## 2.3 Menu Options

### Status Indication Overview (Upper Screen Bar)

Icon	Description	Options
T.all	Signal Strength Indicator	5 levels
cam 1/ cam 2/ cam 3/ cam 4	Camera Selected	cam1 / cam2 / cam3 / cam4 / scan(x)
)	Night Vision	(on / off)
Ť	Alarm Setting	(on / off)
<b>.</b>	Talk-back	(on / off)
°C/°F	Current Camera Unit Temperature	1-36 °C/ 34-97 °F
	Battery Power	4 levels, or flashing red (low battery)
<b>Q</b>	Digital Zoom	( on / off )

### Menu Options Overview (Lower Screen Bar)

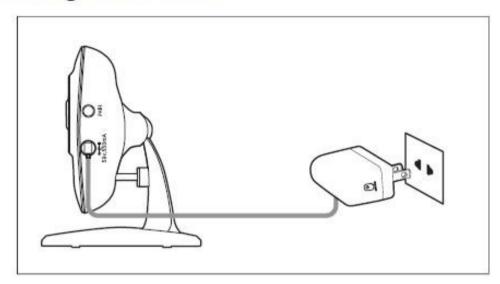
Icon	Description	Options
<b>4</b> 0)	Volume	8 levels
· <b>O</b> ·	Screen Brightness	8 levels
<b>▶</b>	Sleep Mode Delay	3min, 5min, off
₽.	Toggle C ° / F °	C°,F°
Ť	Alarm Setting	off, 2h, 4h, 6h
<u> </u>	Camera Options	del, add, view, scan
<b>€</b> (1)	Warning Volume	high / low / off





## 3. Getting Started

#### 3.1 Powering Camera Unit



- Connect the Camera Power Adapter to the Camera Unit.
- Slide the ON/OFF Switch to the On position. The Power LED light on the Camera Unit will illuminate green.
- Position your Camera Unit no less than 3 feet away from your baby's crib. Ensure the power cord is not within reach of your baby.

#### NOTE

Only use the enclosed Camera Power Adapter (5.9V, 550mA).

#### 3.2 Wall Mounting Camera Unit

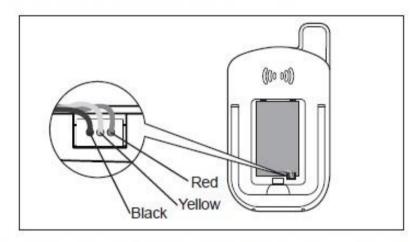
Before installation, check the reception and camera positioning of the location you intend to mount the camera by holding it to the wall. Ensure the desired location is no less than 3 feet away from your baby's crib.

- Pre-drill a hole in the wall using a 1/5 inch (6mm) drill bit.
- Insert wall anchor into the wall and tap gently with a hammer until the anchor is flush with the wall
- Insert screw into the wall anchor and tighten until the screw only sticks out by about 1/3 inch
- 4. Connect the Camera Power Adapter to the Camera Unit.



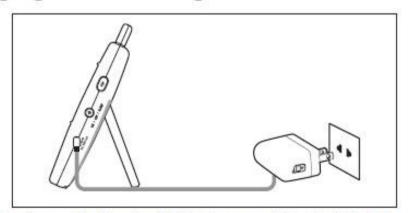
- Locate the hole on the bottom of the Camera Unit and slide the hole over the screw sticking out of the wall.
- Check to see that the Camera Unit is secure. If it is loose, you may need to tighten the screw more
- 7. Use wall clips (not included) to secure the power cord away from the crib or baby's reach.

#### 3.3 Monitor Unit Battery Installation



- Insert the Rechargeable Li-ion Battery into the Battery Compartment as shown above.
- 2. Insert the wire tab of the Rechargeable Li-ion Battery into the contact slots as shown above.
- Replace the battery cover over the compartment.

#### 3.4 Charging and Powering the Monitor Unit



For best results, charge the Monitor Unit before use. After the initial charge, recharge normally as required. The Monitor Unit can be operated normally with power adapter plugged into the unit with the battery installed.





- Connect the Monitor Power Adapter to the Monitor Unit.
- Press and hold the DOWER ON/OFF/SLEEP button for 2 seconds to turn ON the Monitor Unit. The POWER LED indicator will illuminate green to indicate the unit is ON.
- Once both the Camera and Monitor Units are switched on, the display on the Monitor Unit will show the video captured by the Camera Unit.
- 4. If there is no connection or you are out of range, the video display will go off and the screen WARNING! Out of signal coverage will be shown on the LCD display. The unit will also beep every 10 seconds. Move the Monitor Unit closer to the Camera Unit until the link is re-established.
- 5. Press and hold the ONOFF/SLEEP button, until the progress bar finishes scrolling, to turn OFF the Monitor Unit.

#### NOTE

The **pattery** icon turns red on the LCD screen to indicate that the battery is low, and it gives a beep periodically. The battery needs to be recharged. Fully charging the battery takes about 7 hours.

#### When Charging

- During power OFF, when adapter is plugged in, an adapter logo will display on screen and the Charging LED Indicator will illuminate red to indicate charging, then turn blue to indicate that the battery is fully charged.
- During power ON, when adapter is plugged in, the battery icon on screen's top right corner will show that the battery is charging. The Charging LED Indicator will also illuminate red to indicate charging, then turn blue to indicate that the battery is fully charged.

#### NOTE

You can use the Monitor Unit while it is being charged.

#### 3.5 Registration (Pairing)

The Camera Unit is pre-registered to your Monitor Unit. You do not need to register it again unless the Camera Unit loses its link with the Monitor Unit. To re-register your Camera Unit, or register a new Camera Unit, follow the procedure below:

- Press the \* MENU button of the Monitor Unit and the menu bar will pop up.
- 3. Press the 
  UP button or 
  DOWN button until ADD icon is highlighted and press the OK button.



- Press the UP button or DOWN button to select the desired CAM and press the OK button to start searching for a Camera Unit.
- 5. Press and hold the PAIR key on the right side of the Camera Unit for at least 3 seconds. The Power LED light (green LED light, located directly below the camera lens aperture) should flash green to indicate the Camera Unit is in pairing mode. If it does not flash, press and hold the PAIR key until the LED light flashes.
- If unsuccessful, delete the camera channel as per 5.6.1 on page 12 & 13, and attempt to pair again.

#### **NOTE**

If a particular Camera Unit was previously registered with another Monitor Unit, registering with the current Monitor Unit will overwrite the old registration on the Camera Unit.



## 4. Using the Infant Optics DXR-6 Monitor

#### 4.1 Set Up

Place the Camera Unit in a convenient location (e.g. on a table or a shelf) and point the camera lens toward the area you want to monitor.

#### NOTE

Do not place the Monitor Unit within baby's reach. If there is interference with the picture or sound, try moving the units to different locations, and ensure they are not close to other electrical equipment.

#### 4.2 Night Vision Mode

The Camera Unit has 8 high-intensity infrared LEDs for picking up clear images in the dark. When the built-in photo sensor detects a low level of ambient light, the IR infrared LEDs will automatically activate and the screen on the Monitor Unit will display in black and white. The icon will be displayed on the screen.

#### 4.3 Talk Mode

Press and hold the TALK button on the Monitor Unit to talk to your baby through the Camera Unit's loudspeaker. A ucon will be displayed at the top of the LCD screen.

#### 4.4 Sleep Mode (Video OFF with Audio ON)

Short press the OPOWER ON/OFF/SLEEP button to turn the LCD screen OFF while keeping the audio ON. This mode conserves power. Short press the any button to turn screen back on.

#### 4.5 Digital Zoom Mode

Press and hold the  $\bigoplus$  /OK button for 3 seconds to toggle Digital Zoom Mode. A  $\bigoplus$  icon will be displayed at the right bottom of the LCD screen. Pan the picture left/right/up/down according with the left/right/up/down buttons.



## 5. DXR-6 Monitor Unit Menu Options

#### 5.1 Volume

- 1. Press the + button or the button to adjust volume.
- 2. Volume can also be adjusted in the menu bar under the (1) option.
  - 2.1 press the \* MENU button and the menu bar will pop up.
  - 2.2 Press the LEFT button or RIGHT button until (1) Volume icon is highlighted.
  - 2.3 Press the ▲ UP button or ▼ DOWN button to select the desired volume level from level 1 ~ 8 (the default volume level setting is level 4). Level 0 is mute.

#### 5.2 Brightness

- 1. Press the button or the button to adjust brightness.
- 2. Brightness can also be adjusted in the menu bar under the O option.
  - 2.1 Press the \* MENU button and the menu bar will pop up.
  - 2.2 Press the LEFT button or RIGHT button until Brightness icon is highlighted.
  - 2.3 Press the ▲ UP button or ▼ DOWN button to select the desired brightness level from level 1 ~ 8 (the default brightness level setting is level 4).



#### 5.3 Sleep Mode Delay (Video OFF, Audio ON)

This sets the delay time for the screen to turn off automatically (entering SLEEP MODE).

- Press the \* MENU button and the menu bar will pop up.
- Press the ■ LEFT button or ■ RIGHT button until ■ Standby icon is highlighted.
- Press the ▲ UP button or ▼ DOWN button to select the desired time from 3min,
   5min and OFF. (The default AUTO sleep setting is 5min)

#### 5.4 Toggle °C / °F

- Press the \* MENU button and the menu bar will pop up.
- Press the LEFT button or RIGHT button until Temperature icon is highlighted.
- 3. Press 

  UP button or 

  DOWN button to select °C or °F. ( Default Setting is °F )

#### 5.5 Alarm

- 1. Press the \* MENU button and the menu bar will pop up.
- 2. Press the LEFT button or RIGHT button until A Alarm Icon is highlighted.
- Press the UP button or DOWN button to select the desired time from 2h, 4h, 6h and OFF. (The default setting is OFF)

#### 5.6 Camera Control

#### 5.6.1 Delete a camera

- 1. Press the \* MENU button and the menu bar will pop up.
- 2. Press the LEFT button or RIGHT button until Cam icon is highlighted, and the del/add/view/scan menu will pop up.



- Press the UP button or DOWN button to select the DEL icon, and press the OK button to confirm.
- 4. cam 1 / cam 2 / cam 3 / cam 4 will pop up, press the UP button or DOWN button to select the desired CAM, and press the OK button to delete that registration on your Monitor Unit.

#### NOTE

A CAM channel needs to be deleted before pairing to a new Camera Unit.

#### 5.6.2 Add (pair) a camera

- 1. Press the \* MENU button and the menu bar will pop up.
- 2. Press the LEFT button or RIGHT button until Cam icon is highlighted, and the del/add/view/scan menu will pop up.
- Press the UP button or DOWN button to select ADD icon, and press the OK button to confirm.
- cam 1 / cam 2 / cam 3 / cam 4 will pop up, press the ▲ UP button or ▼ DOWN button to select the desired CAM, and press the OK button to start searching for a Camera Unit.
- 5. Press and hold the PAIR key at the right side of the Camera Unit for at least 3 seconds. The power LED light (green LED light, located directly below the camera lens aperture) should flash green to indicate the Camera Units is in pairing mode. If it does not flash, press and hold the PAIR key until the LED light flashes.
- If unsuccessful, delete the camera channel as per 5.6.1 on page 12 and 13, and attempt to pair again.

#### NOTE

A Camera Unit can only be registered to one Monitor Unit at any one time.

#### 5.6.3 View a camera

- 1. Press the ' MENU button and the menu bar will pop up.
- Press the ■ LEFT button or ► RIGHT button until O Cam icon is highlighted, and the del/add/view/scan menu will pop up.
- Press the UP button or DOWN button to select VIEW icon, and press the OK button to confirm.
- 4. cam 1 / cam 2 / cam 3 / cam 4 will pop up, press the ▲ UP button or ▼ DOWN button to select the desired Camera Unit to view.
- Press the OK button to confirm.





#### TIP: Quick method to cycle through CAM channels

Quick method to view desired camera instead of entering into the menu bar: directly press OK button to cycle through paired cameras: cam 1 / cam 2 / cam 3 / cam 4 / scan(x).

#### 5.6.4 Scan camera

This function automatically cycles through your paired camera channels to display each camera for 10 seconds. This function is only useful if you have more than 1 Camera Unit paired.

- 1. Press the \* MENU button and the menu bar will pop up.
- Press the ■ LEFT button or ■ RIGHT button until ■ Cam icon is highlighted, and the del/add/view/scan menu will pop up.
- Press the UP button or DOWN button to select SCAN icon, and press the OK button to confirm.
- The screen will then display the video from different paired cameras in a loop of cam 1 / cam 2 / cam 3 / cam 4 , changing every 12 seconds.

#### NOTE

When in Scan mode, the Monitor Unit will stop scanning and alert you if one of the Camera Unit is out of range or is not switched ON.

#### 5.7 Warning Volume Setting

This controls the volume of an audio 'beep' sound from the Monitor Unit to alert you when the unit is low on battery or out of range.

- 1. Press the \* Menu button and the menu bar will pop up.
- 2. Press the LEFT button or RIGHT button until Warning Volume icon is highlighted.



# 6. Troubleshooting

Product does not switch on	* Confirm that the Camera and Monitor Unit are ON (check Power LED indicator).  * The battery may be depleted; recharge or replace battery.  * Confirm that power adapters are properly connected.
Reception interference (static)	* The Camera and Monitor Unit may be too far apart.  * The battery power may be too low.  * Other electronic devices may be interfering with the signal.  * The Camera or Monitor Unit may be in close proximity to large metallic objects causing interference.  * Use of other 2.4GHz products, such as wireless networks (WiFi routers), Bluetooth systems, or microwave ovens, may cause interference with this product. Keep Camera and Monitor Unit at least 5ft (1.5m) away from these items, or turn them off if they appear to cause interference.
Camera Unit loses link with the Monitor Unit	* If the Camera Unit is too far away with low reception, move the Camera Unit closer to the Monitor Unit.  * Reset both units by disconnecting them from battery and electrical power. Wait about 15 seconds, then reconnect.  * Large metallic objects, including doors, refrigerators, mirrors, filing cabinets, and also reinforced concrete, may block the radio signal if between the Camera and Monitor Unit.  * The signal strength may be reduced when in close proximity to radio or electrical equipment, such as TVs, computers, cordless or mobile phones, fluorescent lights or dimmer switches.  * Use of other 2.4GHz products, such as wireless networks (WiFi routers), Bluetooth systems, or microwave ovens, may cause interference with this product. Keep Camera and Monitor Unit at least 5ft (1.5m) away from these items, or turn them off if they appear to cause interference.  * Pair the Camera Unit under a different channel. (refer to page 13, chapter 5.6.2)
No picture from a Camera Unit	* Check all connections to the camera. Confirm that the adapter is plugged in.  * Try recharging or replacing the battery pack.  * Confirm that all cameras and monitors are both ON.



	* Make sure that the Camera Unit is within range of the monitor.  * Confirm that the Camera and Monitor Unit are paired.  * Adjust the monitor antenna to vertical position.
No sound from Monitor Unit	* Volume setting may be too low. Adjust to a higher setting.
Picture is black and white	Night vision LED may be ON. Night vision mode operates in black and white.      Turn on room lights to force monitor out of night vision mode.
The picture playback is not smooth (choppy video with low frame rate)	* Try moving the Camera Unit closer to the Monitor Unit.  * Remove obstructions between the Camera and Monitor Unit.  * Adjust the monitor antenna to vertical position.  * Use of other 2.4GHz products, such as wireless networks (WiFi routers), Bluetooth systems, or microwave ovens, may cause interference with this product. Keep Camera and Monitor Unit at least 5ft (1.5m) away from these items, or turn them off if they appear to cause interference.
Camera Unit power LED changes brightness	* This is normal. The Power LED indicator is set to dim when in the dark, and brighten when ambient light is detected.
Noise (static, beeping)	* Battery power may be too low; recharge or replace battery.  * Possible alarm ring alert.  * Possible out of signal alert.
Noise interference on your Monitor Unit	* Volume may be set too high on the Monitor Unit. Lower volume.  * The Camera and Monitor Units may be too close. Move them further apart.  * The Camera Unit may be too far away and out of range. Move the Camera Unit closer to the Monitor Unit.  * Make sure the Camera and Monitor Units are placed away from other electrical equipment, such as a television, computer or cordless/mobile telephone.



The rechargeable battery will not charge or no charge light	* The monitor power adapter may not be properly connected.  * Battery pack may not be properly connected inside the battery compartment
Pairing failed	* Make sure that the Power Adapter is connected to the Camera Unit.  * Confirm that the Camera Unit is turned ON (Power LED indicator shows green light).  * Try pairing to another CAM channel.

If the above troubleshooting guide did not help you solve your problem, contact customer service. Our toll-free number and customer service email address is located in the back of this User Manual.



## 8. Specifications

#### Systems General

RF Frequency: 2400 Mhz ~ 2483.5 Mhz

Type of Modulation: GFSK
Type of Spread Spectrum: FHSS
Selectable Camera Channels: 4

Data Rate: 3 Mbps Channel Bandwidth: 3.375 MHz

Transmission Range: up to 700 feet (line of sight, no obstruction)

Camera Unit

Input Voltage: 100-240VAC @ 50/60Hz

Operating Voltage: 5.9V, 550mA

IR/Night Vision: 8 IR LEDs, 1 Low light sensor Picture sensor: 6C0308 1/6.5' Color CMOS

Built-Lens: f 2.5mm, F 2.8

Operating Temperature: 0° C (+32° F) to +50° C (122° F)

Power Adapter: Input: 100-240VAC, 50/60Hz 150mA; Output: 5.9V, 550mA

Exposure Control: Auto
White Balance Control: Auto

Monitor Unit

Input Voltage: 100-240VAC @ 50/60Hz

Operating Voltage: 5.0V, 550mA Resolution (Pixel): 320 x 240

Battery: 1200mAH Li-ion 3.7V rechargeable battery
LCD Display: 2.4" TFT color display at 320 x 240 RGB colors

Power Adapter: Input: 100-240VAC, 50/60Hz 150mA; Output: 5.0V, 550mA

Duration (Standby Mode): 10 Hours
Duration (Screen ON): 6 Hours
Time to charge full: 7 Hours



#### 9. FCC Regulations

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.

Changes or modifications not expressly approved by the party responsible could void the user's authority to operate this device.

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 parent unit is designed to meet the requirements for exposure to radio waves by FCC.

These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.075W/kg.

The transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment of Camera complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

For body operation, this device of Monitor unit has been tested and meets FCC/IC RF exposure guidelines when used with any accessory that contains no metal and that positions a minimum of 15mm from the body.

Use of other accessories may not ensure compliance with FCC/IC RF exposure guidelines.



## 10. Warranty Information

We warrant to the original user that this product shall be free from all defects in material or workmanship for one year from the date of purchase. This warranty does not apply to any product that has been subject to abuse, misuse, negligence or accident, nor does it apply to any batteries that may be supplied with the product. Defects caused by tampering, unauthorized alterations or repairs are not covered by this warranty. We may elect to replace the entire unit, at no extra cost to you, with the same model or a similar model rather than repair it. If a defect covered by this warranty should occur, email us with a scanned copy of your original receipt and a brief explanation of the problem, failing which Infant Optics will not perform any of its obligations under this warranty. Our service representative will provide you with an address of our closest office/warehouse to where you live, together with a return authorization number. To return the item, you must use the original packaging or the equivalent, and you must pay postage.

#### TOLL FREE CUSTOMER SUPPORT 1-800-291-0195

## DEDICATED CUSTOMER SUPPORT EMAIL info@infantoptics.com

We will respond all inquiries within 24 hours.

This warranty gives you specific legal rights, and you may have other legal rights that vary from state to state.

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