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# Instruction Manual

## FLIR FX

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# Safety Precautions

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- Camera is not weatherproof. Use the appropriate outdoor accessory if using the camera outdoors or where it will be exposed to moisture.
- Make sure that outdoor power outlets and cable connections are properly sheltered from the elements.
- Do not use the camera below 32°F / 0°C or above 104°F / 40°C.
- Only use the camera with approved FLIR accessories.
- Do not use or install the camera near a radiator or heat source.
- Do not cover the camera with a towel or blanket.
- Do not point the camera directly towards the sun or a source of intense light.
- Aiming the camera through a window will cause the nighttime LEDs to reflect off of the glass, causing a bright spot in the image.
- Keep the cables at least 3ft / 1m away from baby cribs and out of reach of children and infants.
- Use the included cable clips to help keep cables away from children.
- Do not disassemble the product. No user serviceable parts inside.
- Do not disassemble or do a modification to the battery. The battery contains safety and protection devices which, if damage occurs, may cause the battery to become hot, or cause an explosion or an ignition.
- If you are not using the product for a prolonged time, charge the battery every 6 months to keep the battery in working condition.
- Dispose or recycle the product and batteries in accordance with local laws, which may vary by location.
- If using an accessory with replaceable batteries, only use replacement batteries specified by FLIR. Use of other types of batteries may damage the product.
- The camera makes a clicking noise when changing between day and night modes. This clicking is normal and indicates that the camera filter is working.
- Do not connect more than one USB cable to the product at once.

## What is included with my FLIR FX camera?

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The standard model FXV101-H comes with the following components:

- Camera with indoor stand.
- microUSB cable.
- 8GB microSD card pre-installed in the camera.
- Power adapter.
- Power points for European and UK use.
- Mounting screws and drywall anchors.
- Extra mounting / camera ID plate for convenience.
- Quick start guide and safety information.

**Note**

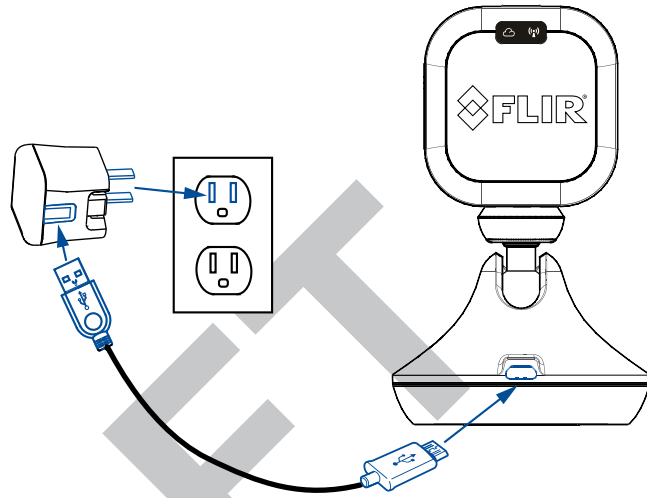
Other models or configurations may come with slightly different components or accessories.

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# How do I set up my FLIR FX camera?

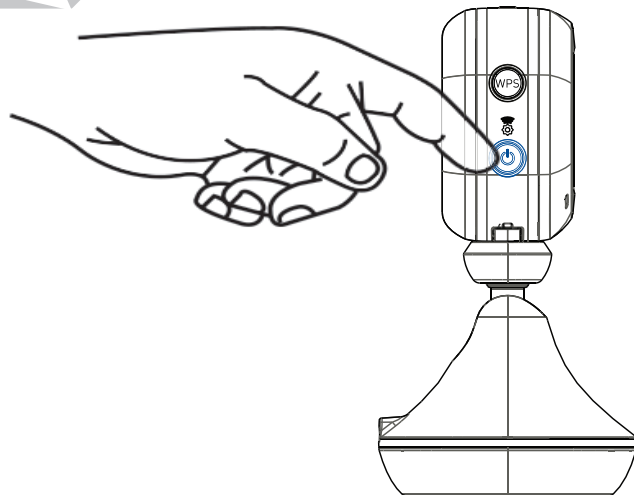
1. Connect the included USB cable to the power adapter. Connect the other end of the USB cable to the camera and connect the power adapter to a power outlet.



#### Note

- The REC LED will glow orange to indicate the camera is charging. It will glow green when the camera is finished charging. The battery will take 6 hours to fully charge.
- You can connect the power adapter to either the USB cable on the camera or camera stand. Do not connect a USB cable to both the camera and stand at the same time.

2. Press the power button on the camera. The camera will start up and the Direct Mode LED will glow orange.

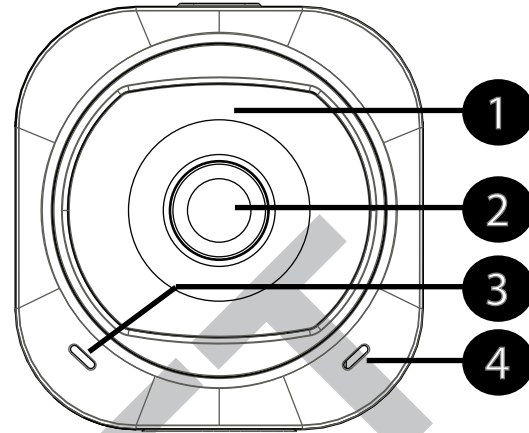


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3. Download the FLIR FX app from the App Store or Google Play Store. Start up the app and follow the start up wizard in the app to connect to the camera.



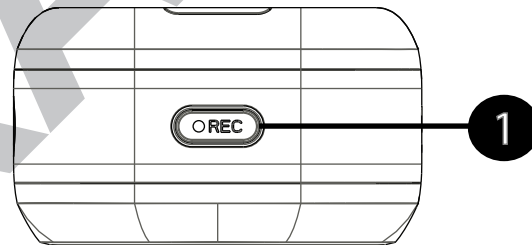
# What are the parts of my FLIR FX camera?

## 4.1 Front



1. **Infrared night vision LEDs:** Allows the camera to see up to Xft / Xm in total darkness.
2. **Lens:** Provides a wide-angle 160 degree field of view.
3. **Microphone:** Allows you to hear the area around the camera.
4. **Speaker:** Allows you to talk through your camera from your mobile device using 2-way-talk.

## 4.2 Top



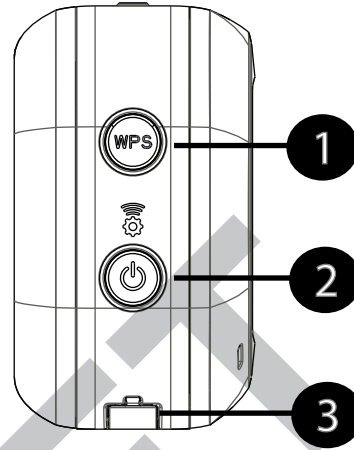
1. **REC button / status LED:** Press to start / stop manual recording.

### LED colors:

- **Flashing red:** Camera is recording.
- **Solid orange:** Camera is charging.
- **Solid green:** Camera is fully charged.

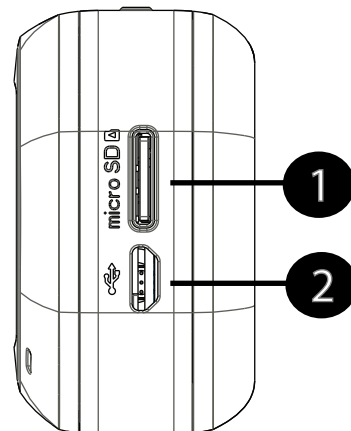
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### 4.3 Left



1. **WPS button:** Used to connect the camera to a WPS-compatible router (not included). Press the WPS button on the router and then press the WPS button on the camera to make the connection.
2. **Power/WiFi button:** Press to turn the camera on. Press to switch the camera between hotspot mode and WiFi mode. Press and hold to turn off the camera.
3. **Accessory connector:** Allows the camera to slide into compatible accessories.

### 4.4 Right

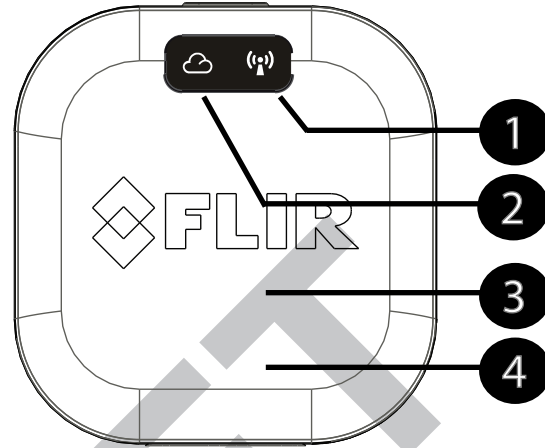


1. **microSD slot:** Insert a microSDHC, or microSDXC card between 8GB and 64GB for recording on the camera. It is recommended to use microSD class 10 or higher cards.
2. **microUSB port:** Connect a microUSB cable to the camera for charging or to save video file from the camera to a PC or Mac.

**Note**

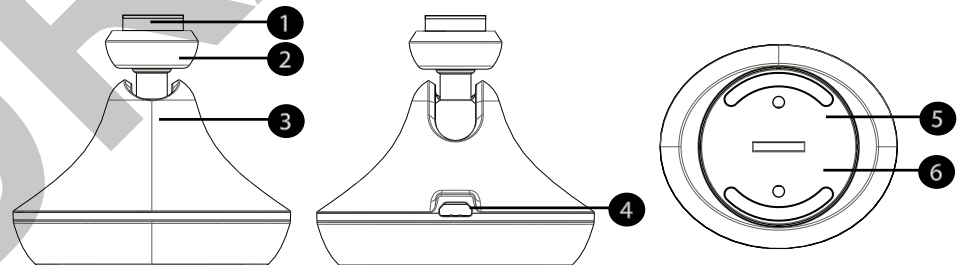
While the camera is connected to a computer, you will not be able to connect to it on a mobile device. Do not connect a USB cable to both the camera and stand at the same time.

#### 4.5 Back



1. **Direct mode LED:** Indicates the camera is in Direct (AP) mode. When the camera is in Direct mode, you can connect to the WiFi hotspot created by the camera to connect to it in areas without access to wireless.
2. **Cloud mode LED:** Glows solid green to indicate the camera is connected to a WiFi network, allows you to connect to the camera from anywhere. Flashing indicates the camera is connecting to a WiFi network.
3. **Temperature/humidity sensor (built-in):** Senses the temperature and humidity in the room.
4. **Accelerometer:** Senses the motion of the camera.

#### 4.6 Indoor Stand



1. **Connect:** Allows the stand to connect to the camera.
2. **Ball joint:** Provides the camera with a flexible range of motion.
3. **Expanded battery:** Provides extra battery life for the camera.
4. **microUSB port:** Connect a microUSB cable to the stand for charging the battery in the camera and stand.

##### Note

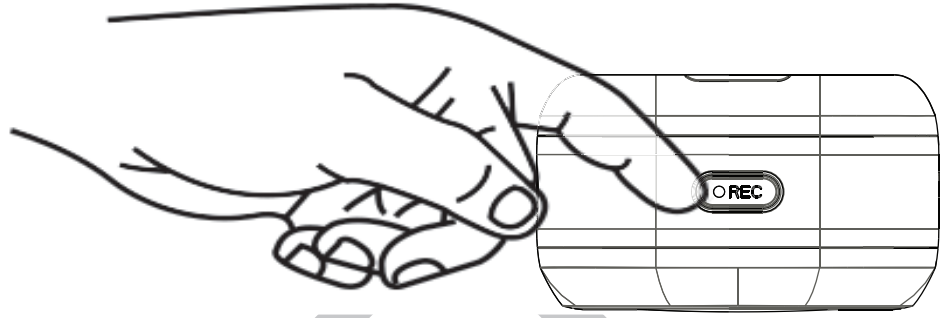
While the camera is connected to a computer, you will not be able to connect to it on a mobile device. Do not connect a USB cable to both the camera and stand at the same time.

5. **Mounting plate:** Enables the camera to be mounted to a wall. The mounting plate can be removed from the camera. The camera comes with an additional mounting plate, so you can keep a permanent mounting position while still having the ability to move the camera around.
6. **Device ID label:** Contains the Device ID and QR code used for initial setup using the mobile app.

## How do I activate manual recording?

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While the camera is on, press the **REC** button on the top of the camera. The button will begin flashing red to indicate recording is in progress. Press the **REC** button again to stop recording.



# How do I view recordings on my computer?

The easiest way to view video recordings from your FLIR FX camera on a computer is to connect the camera directly to the computer using the included microUSB cable. If your computer has an SD or microSD card reader, you can use it to view the recordings.

**Note**

This section covers local recordings saved to the camera's microSD card only. If you have a subscription plan and have recordings saved in the cloud, you will need to use the FLIR FX app to view those recordings.

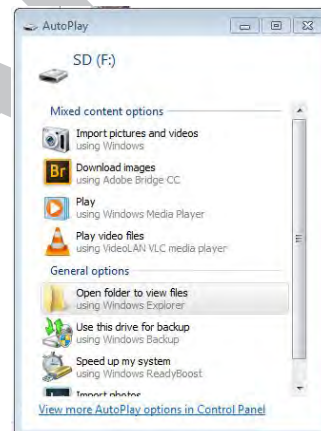
**To view video recordings from the camera microSD card on a computer running Windows:**

1. Connect a microUSB cable to the camera and connect the large end to a USB port on your computer. This puts the camera into USB storage mode.

**Note**

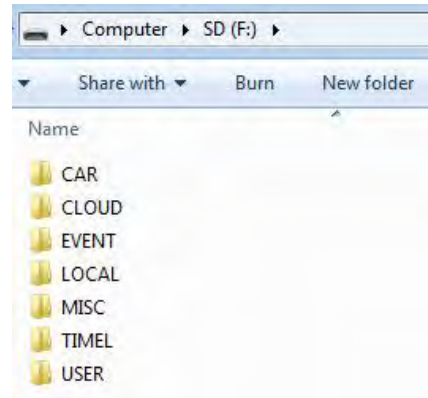
When the camera is in USB storage mode, you cannot connect to the camera using the apps on a smartphone or tablet. You must disconnect the camera from the computer in order to allow connectivity.

2. An AutoPlay window appears. Click **Open folder to view files**.

**Note**

If AutoPlay does not appear, click on My Computer and browse to the SD card. If the SD card does not appear, disconnect and reconnect the USB cable to the computer.

- The camera saves videos and images onto the microSD card in folders based on the type of recording. For example, the USER folder contains manual video recordings. Double-click on the folders to access the video files.

**Note**

The camera saves video files to the microSD card in .mp4 format and saves images in .jpg format. You can view .mp4 videos using Windows Media Player or VLC Player.

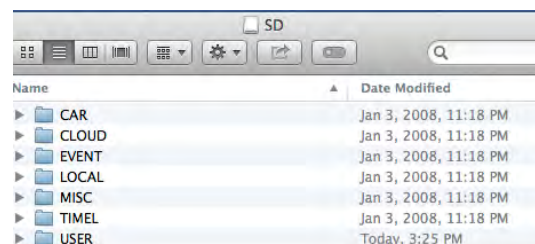
### To view video recordings from the camera microSD card on a computer running Mac OSX:

- Connect a microUSB cable to the camera and connect the large end to a USB port on your computer. This puts the camera into USB storage mode.

**Note**

When the camera is in USB storage mode, you cannot connect to the camera using the apps on a smartphone or tablet. You must disconnect the camera from the computer in order to allow connectivity.

- The camera's microSD card will show up on the desktop (📁). Double-click **SD** to open.
- The camera saves videos and images onto the microSD card in folders based on the type of recording. For example, the USER folder contains manual video recordings. Double-click on the folders to access the video files.

**Note**

The camera saves video files to the microSD card in .mp4 format and saves images in .jpg format. You can view .mp4 videos using Quick Time Player or VLC Player.



# How do I wall mount my FLIR FX camera?

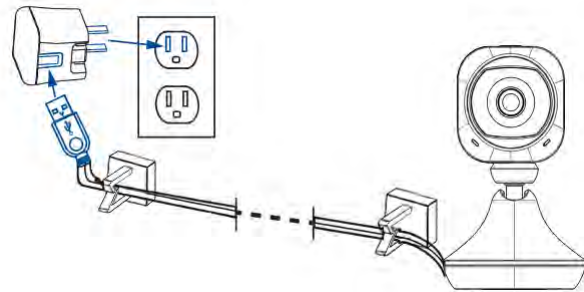
The indoor stand allows you to simply mount the camera to a wall. An extra mounting plate is provided so you can have a permanent mounting place for the camera while still being able to move the camera around when needed.

**Note**

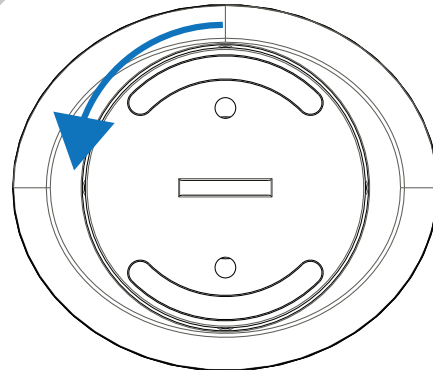
Before mounting the camera, determine the best mounting position to get a view of the area you want. Ensure the power cable is long enough to power the camera.

**CAUTION**

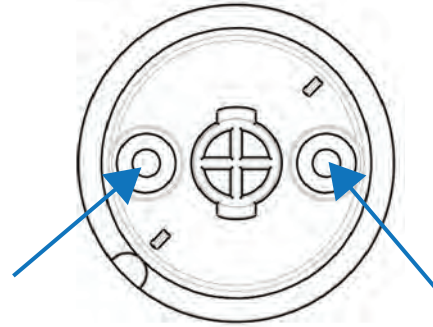
Keep the cables at least 3ft / 1m away from baby cribs and out of reach of children and infants. Use the included cable clips to help manage the cables.

**To wall mount the FLIR FX:**

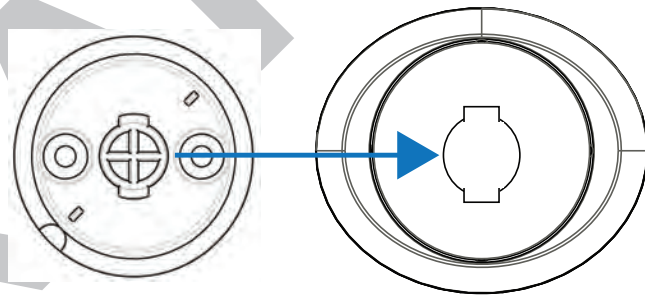
1. Using a coin, turn the mounting plate on the bottom of the indoor stand counter-clockwise to remove it from the base.



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2. Use a pencil to mark holes for the mounting screws.



3. Drill holes where marked using a drill.
4. Tap the included drywall anchors into the holes with a hammer.
5. Attach the mounting plate to the wall using the included mounting screws.
6. Attach the camera stand to the mounting plate. Make sure the locking mechanism on the plate lines up with the indent in the camera stand. Twist the camera stand clockwise to secure it to the mounting plate.



## FLIR FX Specifications

Image Sensor	1/3" 4Megapixel CMOS
Resolution	Up to 1920 x 1080 (1080p)
Frame Rate	Up to 30fps
Compression	H.264
Lens	2.45mm F2.5
Field of View	160° diagonal
Night Vision LEDs	6 IR LED in camera
Night Vision Range	TBD ft / TBD m
IR Cut-Filter	Yes
WiFi	2.4GHz 802.11 b/g
Apps	iPhone®, iPad®, Android™
Buttons	Power, WPS, Manual Record
LED Indicators	Cloud Mode, Direct Mode, Recording
Microphone	Yes
Speaker	Yes
MicroSD	8GB to 64GB microSDHC or microSDXC supported, class 10 or higher
File Format	Video: MP4 Photo: JPG
Power	microUSB
Power Adapter	5V 2.0A
Battery	1130mAh in camera 1130mAh extended battery in indoor stand
Battery Life	Up to TBD hours camera only Up to TBD hours with indoor stand
Operating Temperature	0 ~ 104°F / 0 ~ 40°C
Dimensions – Camera Only	2.0" / 1.2" / 2.3" 51mm / 31mm / 59mm
Dimensions – With Indoor Stand	2.7" / 2.3" / 4.7" 70mm / 60mm / 121mm
Weight – Camera Only	0.2lb / 0.08kg
Weight – With Indoor Stand	0.45lb / 0.20kg

**FCC Notice:** This device complies with Part 15, subpart C, 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. However, it is imperative that the user follows the guidelines in this manual to avoid improper usage which may result in damage to the unit, electrical shock and fire hazard injury.

Changes or modifications made to this equipment not expressly approved by FLIR Systems, Inc. may void the FCC authorization to operate this equipment.

**Radio Frequency Exposure:** The radiated output power of the device is below the FCC/IC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

**IC:** This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**Exposition aux radiofréquences :** La puissance de sortie rayonnée de l'appareil est inférieure aux limites d'exposition de radiofréquences de la FCC/IC. Néanmoins, le dispositif doit être utilisé de telle manière que le niveau de contact avec un être humain soit réduit au minimum pendant une utilisation normale.

**IC:** *Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

**CE:** This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive:

- EMI/EMC Directive 2004/108/EC - Electromagnetic Compatibility
- WEEE Directive 2012/19/EU - Waste Electrical and Electronic Equipment
- LVD Directive 2006/95/EC - Low Voltage Directive
- Battery Directive 2006/66/EC - Batteries and accumulators and waste batteries and accumulators
- ErP Directive 2009/125/EC - on the Eco-Design requirements of Energy-related Products
- RoHS2 Directive 2011/65/EC - Restriction on the use of certain Hazardous Substances

**Disposal:** As with most electronic products, this equipment must be disposed of in an environmentally friendly way, and in accordance with existing regulations for electronic waste. Please contact your FLIR Systems, Inc. representative for more details.



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**Audio Recording:** Audio recording without consent is illegal in certain jurisdictions. FLIR Systems, Inc. assumes no liability for use of its products that does not confirm with local laws.

**Need Help**

Visit [www.flir.com/fx](http://www.flir.com/fx) to access the FLIR FX knowledgebase or contact technical support or customer service.

## Federal Communication Commission Interference Statement

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.

### Federal Communication Commission (FCC) Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

### IC Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528.

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