OWNER'S MANUAL

# LG Smart Cam Pro

Please read this manual carefully before operating your set and retain it for future reference.

Network Webcam
AN-VC22PR

www.lg.com

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Printed in Malaysia

*MFL67903501*
(2211-REV00)

# IMPORTANT SAFETY INSTRUCTION

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

# SAFETY PRECAUTIONS



For safe use, read the following precautions and use the product as instructed.

**⚠ WARNING**

Indicates a case where serious injury or death may occur if the warnings are violated.

**⚠ CAUTION**

Indicates a case where minor injury or product damage may occur if the precautions are violated.

**⚠ CAUTION**

- This product is for indoor use only.

## Precautions for Moving the Product

**⚠ WARNING**

- Make sure the product is turned off, unplugged, and all cables have been removed before the product is moved.
  - You may be electrocuted or the product can be damaged.
- Do not drop or cause an impact on the product.
  - Product can be damaged.

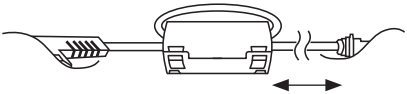
## Precautions for Use

**⚠ CAUTION**

- Disconnecting the Device from the Main Power
  - The power plug is the disconnecting device. In case of an emergency,the power plug must remain readily accessible.
- If you install the product in a place that does not meet the recommended conditions, this may cause serious damage to the life cycle, and appearance. Please do not install the product in places such as where there is an abundance of fine dust or oil mist, chemical substances are used, exposed to direct sunlight, the temperature is very high or low, the humidity is very high.

- Do not take the product apart arbitrarily. If you suspect a product failure, contact your dealer to have the product repaired. If the product is taken apart arbitrarily, it will not be covered by the warranty.
- Do not apply excessive force to the button, or use a pointed tool to press it. Doing so may damage the button.
- If the product plays an unknown sound or emits a strange smell or smoke, disconnect the power cord immediately and contact the service center.
- Do not moving when the product is in use.
- Do not allow an impact shock, any objects to fall into the product.
- Do not expose to dripping or splashing and do not place objects filledwith liquids, such as vases, cups, etc. on or over the apparatus (e.g., onshelves above the unit)
- Do not use high voltage electrical equipment near the device (e.g., a bug zapper). This may result in product malfunction
- Do not press strongly upon the button or lens with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it. It may cause damage to product.
- If a camera noise occurs, It can be improved by adjusting the picture mode of the connected display.
- When using the product as a security device, please connect it to the UPS.
- Recommended HDMI cable types (3 m (9.84 ft) or less)
  - Ultra High Speed HDMI®/™ cablel
- How to use ferrite core
  - Use the ferrite core to reduce the electromagnetic interference in the adaptor. Wind the DC part of adaptor on the ferrite core once.

[Adaptor side] [Device side]



10 cm (+/-2 cm)
3.9 inches (+/-0.7 inches)

## Precautions for Cleaning the Product

### ⚠ CAUTION

- When cleaning the product, unplug the power cord and wipe it gently with a soft cloth. Do not spray water or other liquids directly on the product. Especially, do not clean your product with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol, etc., which can damage the product or its panel.
  - This may result in fire, electric shock or product damage (deformation, corrosion or breakage).

## Precautions for Storage

### ⚠ CAUTION

- When not in use, turn off the power of the device before storing.
- If not in use for a prolonged period of time, completely disconnect the adapter and store it.
- Avoid direct light (sunlight, electric light, etc.), and store it in a dry location at room temperature.
- Store away from places vulnerable to fire, such as areas where chemicals and gas are generated.

## Disposal Method

### ⚠ CAUTION

- Do not dispose of the product arbitrarily, but follow your local disposal procedures.

# BROWSING OUR PRODUCTS

Due to the version changes of the product after this user manual was published, the illustrations and screenshots in the manual may differ from the screens of the actual product and software.

The information provided in this user manual is subject to change without notice.

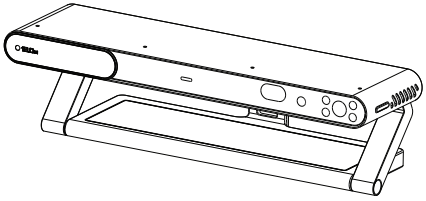
## LG Take-back & Recycling Policy

(For USA)

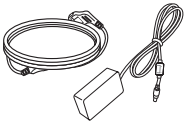
LG Electronics offers a customized e-waste take-back & recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product take-back & recycling service voluntarily in some regions. LG Electronics evaluates product's recyclability at the design step selectively, with the goal of improving recyclability where practicable. Through these activities, LG Electronics seeks to contribute to conserving natural resource and protecting the environment. For more information, please visit our global site at *https://www.lg.com/recycling*

# Product Composition



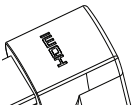


LG Smart Cam Pro

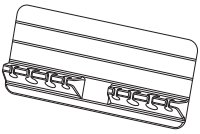


Power Cord / Adapter

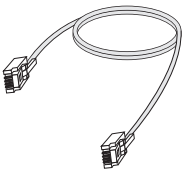
Owner's Manual /
Remote Control



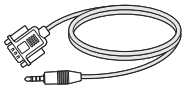
HDMI Angle Gender



Cable Management



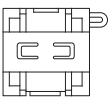
MPI cable



RS-232C cable

LAN cable

HDMI cable

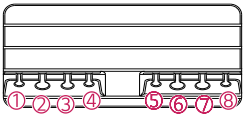


Ferrite core

## Removing protective Sheet before use

Before using the product, Remove the protective sheet.

## Recommendations when using Cable Management



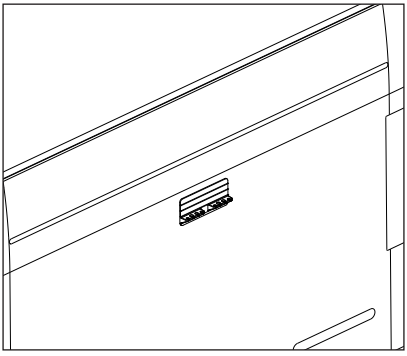

| | |
|---|---|
| ① | Adapter |
| ②, ⑦ | HDMI |
| ③ | LAN |
| ④, ⑤ | RS-232C |
| ⑥ | MPI |
| ⑧ | USB C-type |

# Attaching the Cable Management



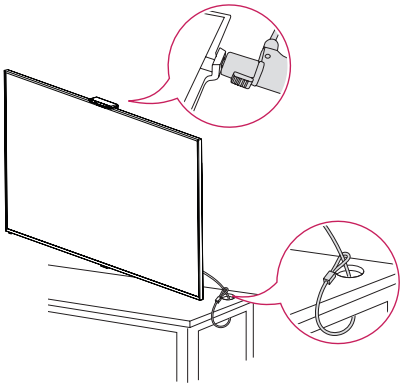
1 Remove the protection paper from the adhesive side of the tpae and attach to the back of the Cable Management as shown

2 After removing the other side protection paper from the tape. stick Cable Management to the TV.



# Kensington Lock

Connect the Kensington security system cable between the monitor and product.



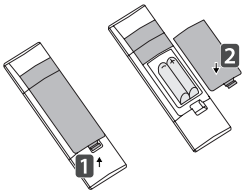
**NOTE**

- The Kensington lock device is an optional specification.
- This is a general illustration of installation and may look different from the product held by the customer.

# REMOTE CONTROL

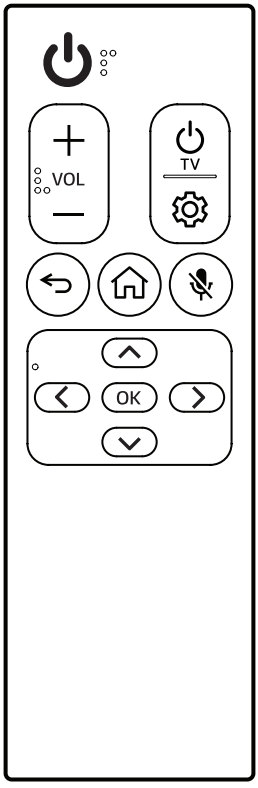


The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully to use the monitor correctly. To install batteries, open the battery cover, place batteries (1.5 V AAA) matching ⊕ and ⊖ terminals to the labels inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse. The illustrations may differ from the actual accessories.




## ⚠ CAUTION

- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- Be sure to point the remote control toward the remote control sensor on the product.
- Some features of the remote control may not be supported in certain models.
- Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution.
- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- The product's internal and external batteries should not be exposed to excessive heat such as direct sunlight, fire, or the like.
- Risk of fire or explosion if the battery is replaced by an incorrect type.


VOL
TV
OK

**(POWER)** Turns the Camera On/Off.

TV **(POWER)** Turns the TV device On/Off.

**(HOME)** Return to Home screen.

**(BACK)** Return to Previous stage.

**(SETTINGS)** Setting the Menu for Camera/ Audio/Network/Time/etc.

Navigation keys.

OK Select and adjust functions.

VOL **(Volume Up/Down)** Adjusts the volume level.

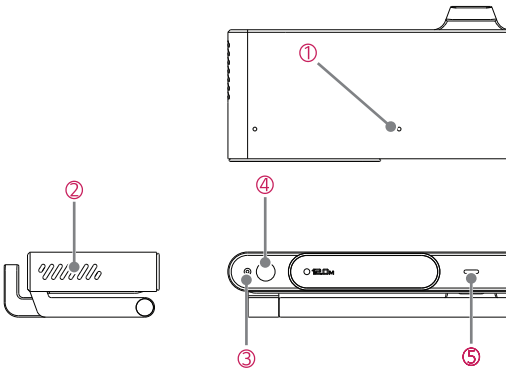
**(MIC Mute)** Mutes the MIC.

## Power Standby mode

You can enter standby mode in the following cases:

1. Power button located on the side of the product.
2. Power button of remote control.
3. Sleep icon in the home app provided by the product
4. Installation/General/Power Saving/Keyless off Hours settings
5. When there is no key input in the time out home app for 60 seconds.

# Name of Individual Parts




① Microphone (x4)

② Speaker (1.3W)
* For playing call or alram tones.

③ LED

④ 12MP wide RGB camera

⑤ Status LED (3 color LED)

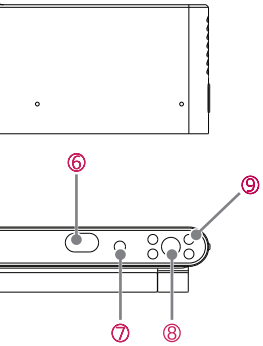
⑥ IR Remote

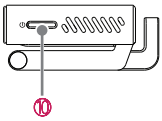
⑦ ALS Sensor

⑧ 12MP NV Camera

⑨ IR LED (x4)

⑩ Button
* Power on / off mode changes by pressing button.

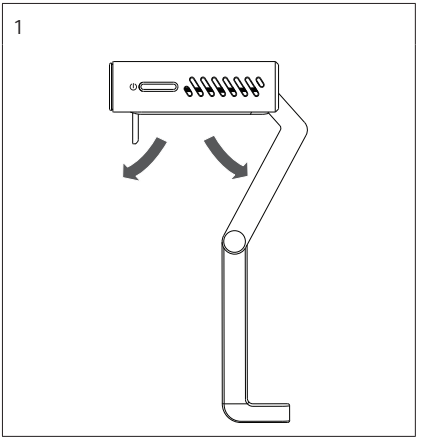

⑥
⑨
⑦
⑧


⑩

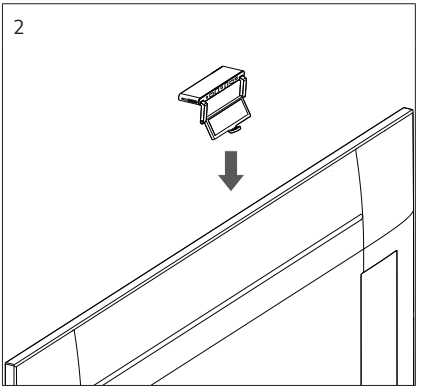
# INSTALLING THE PRODUCT

## Set Holding

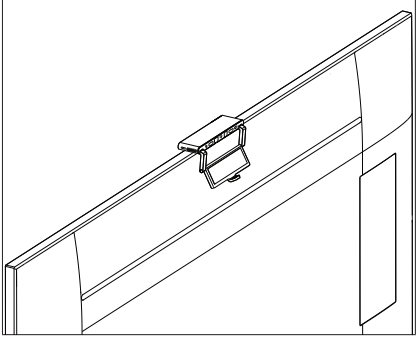
1



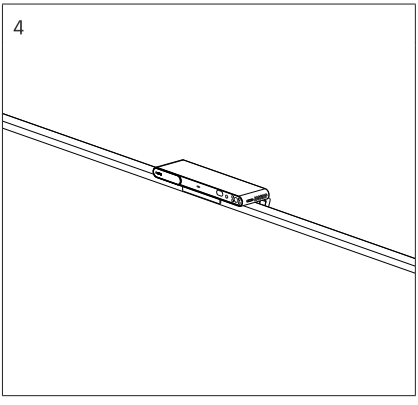
2



3



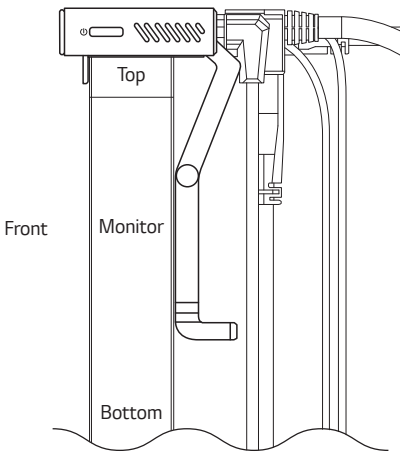
4



## On The Monitor

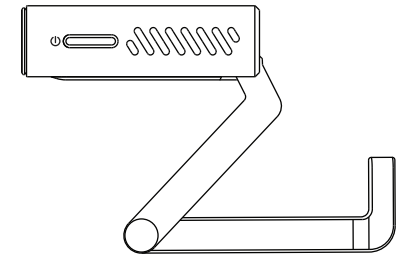
- Right angle gender applied structure
- Make sure the product does not interfere to the other cable when installing it.

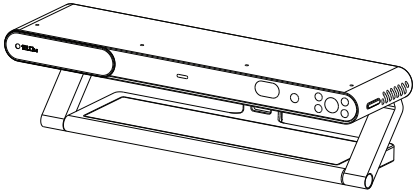
1 Unfold the hinge and mount and secure it to the top of the set.



## Stand

- Floor mounting with hinged structure stand

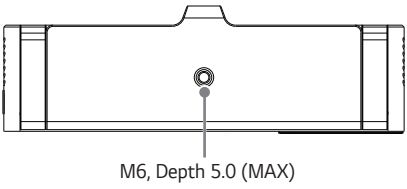




## Accessory Connection

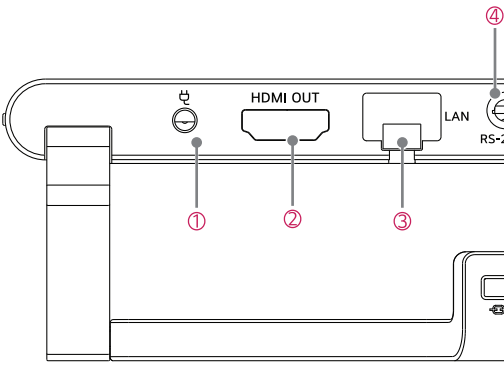
- When fixing with accessories, use the Bottom Tap Hole.
- Tap Hole: M6, Depth 5.0 (Max)

Bottom Side

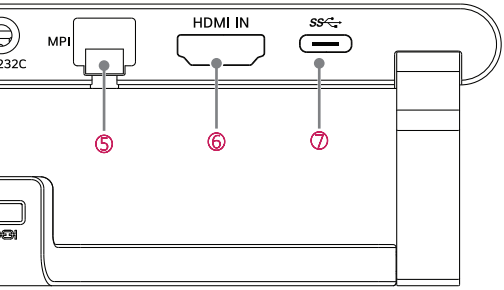


# CONNECTING






| Name | Conne |
|---|---|
| ① DC IN | Power supply by connecting adap |
| ② HDMI OUT | Connect to TV. |
| ③ LAN | The Ethernet communication ind |
| ④ RS-232C | * These ports are not for end us |
| ⑤ MPI | |
| ⑥ HDMI IN | Connect a HDMI source device, e |
| ⑦ (USB Type-C 3.1) | For connecting USB devices for u<br>* Compatiable model |

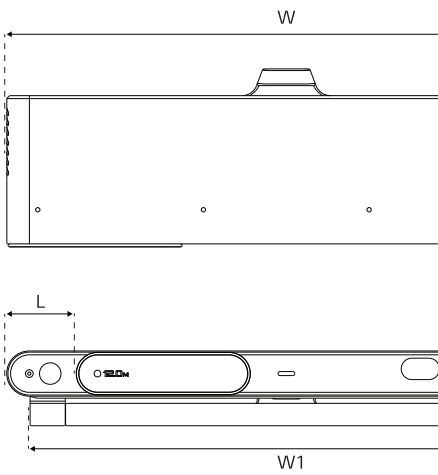



| ection and Communication Method |
| --- |
| oter DC PLUG. |
| |
| licator LED using TCP/IP does not light up. |
| er. |
| e.g., STB, PC, DVD player. |
| use in Pro:Centric Application. |

# PRODUCT SPECIFICATIONS



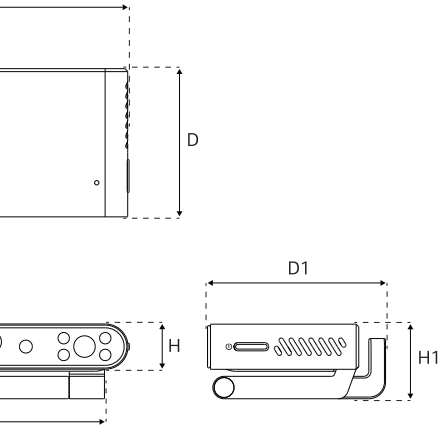
The product specifications below are subject to change without




| Model | W | W1 | D |
|---|---|---|---|
| LG Smart Cam Pro (AN-VC22PR) | 167 (6.5) | 153.1 (6.0) | 44.3 (1.7) |

| Operating temperature and Humidity |
|---|
| -5 °C to 45 °C (23 °F to 113 °F), below 90 % RH (without dew, frost) * Recommendation 25 °C (77 °F) |
| Storage temperature And Humidity |
| -20 °C to +60 °C (-4 °F to 140 °F), below 90 % RH (without dew, frost) |
| Product installation height |
| 2 m (78.7 inches) or less |

t notice in order to improve product functions.




* Unit: mm (inches)

| D1 | H | H1 | L | Weight |
|---|---|---|---|---|
| 52.3<br>(2.0) | 13.5<br>(0.5) | 22.3<br>(0.8) | 20<br>(0.7) | 330 g<br>(0.7 lbs) |

| HW | |
|---|---|
| Processor | Qualcomm QCS7230 |
| RAM | 6 GB |
| SSD | 64 GB |
| Camera | Built-in 12MP<br>(F2.2 / 120˚ / 1.4um)<br>(4K Camera, 4x Digital Zoom),<br>Night Vision |
| Speaker | O |
| WiFi | O |
| Ethernet | O |
| USB | Type-C 3.1 |
| Power<br>(Rated Voltage) | 12 V ⎓ 2.5 A |
| SW | |
| OS | WebOS OSE |

| Wireless Specifications |
|---|
| **Wireless LAN (IEEE 802.11b/g/n)** |
| Frequency Range (MHz) |
| 2400 ~ 2483.5 |
| **Wireless LAN (IEEE 802.11a/n/ac)** |
| Frequency Range (MHz) |
| 5180 ~ 5825 |

* FCC ID : BEJAN-AC22PR
* IC : 2703H-ANVC22PR

# OPEN SOURCE SOFTWARE NOTICE INFORMATION

To obtain the source code that is contained in this product, under GPL, LGPL, MPL, and other open source licenses that have the obligation to disclose source code, and to access all referred license terms, copyright notices and other relevant documents, please visit *https://opensource.lge.com*.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to *opensource@lge.com*.

This offer is valid to anyone in receipt of this information for a period of three years after our last shipment of this product.

# LICENSE

Supported licenses may differ by model. For more information on the license, please visit *www.lg.com*.



HIGH-DEFINITION MULTIMEDIA INTERFACE

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

# REGULATORY

**WARNING:** Cancer and Reproductive Harm - *www.p65warnings.ca.gov*.

# FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

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 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## *Radiation Exposure Statement:*

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the radiator & your body.

## *Industry Canada Statement*

(For Canada)

[For having wireless function (WLAN, Bluetooth,...)]

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

## *IC Radiation Exposure Statement*

(For Canada)

[For having wireless function (WLAN, Bluetooth,...)]

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna & your body.

**NOTE** : 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.

## *RSS-247 Requirement*

(For Canada)

[For product having the wireless function using 5 GHz frequency bands]

(1) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(2) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

(3) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and

(4) [For devices operating in the band 5250-5350 MHz having an e.i.r.p. greater than 200 mW] Antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 of RSS-247 shall be clearly indicated.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

## *Canada, avis d'Industrie Canada (IC)*

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

MODEL

SERIAL NO.