



**DCS-1820LM**

**User's Manual**

**Version 0.1**

**Jun 21<sup>th</sup>, 2018**

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## 1. PRODUCT DESCRIPTION

### Smart Home, Made Brilliant

DCS-1820LM 4G LTE Camera is a compact wireless network battery camera suitable for day-time and night-time outdoor environments. It features cellular data connectivity, night vision, human motion detection<sup>1</sup>, and a free mobile app — feel at ease when you're away from home.

### Compact Design, Simple Setup

The DCS-1820LM is designed to be compact and unobtrusive, it can fit in with any decor, no matter where you put it. You can mount it anywhere, indoors or out. It's weather resistant so it can withstand outdoor weather. Setting up the camera is also a breeze with the free mydlink app. To get started, simply install the app on your mobile device and with a few taps the app will guide you through the entire setup process.

### Versatile Feature Set

Despite its small size, the DCS-1820LM has all the features you need for monitoring your home. Onboard 4G/LTE and Wi-Fi provides extended range and higher bandwidth for smooth 1080p Full HD video streams on any device without interruption. The DCS-1820LM together with the mydlink™ app supports simultaneous live viewing, recording<sup>3</sup>, and playback for up to four channels with the addition of optional cameras.

Built-in IVA human detection will automatically trigger notifications to your mobile device, as well as automatically record snapshots to cloud storage. Night-time monitoring is possible with the built-in infrared LED which allows for night-time viewing of up to 5 meters (16 feet), so you can relax knowing you have 24/7 monitoring of your home or small office. The camera is powered by a powerful lithium-ion battery allowing its use for a long period without the need to charge it.

### Access Anywhere Using the Mobile App

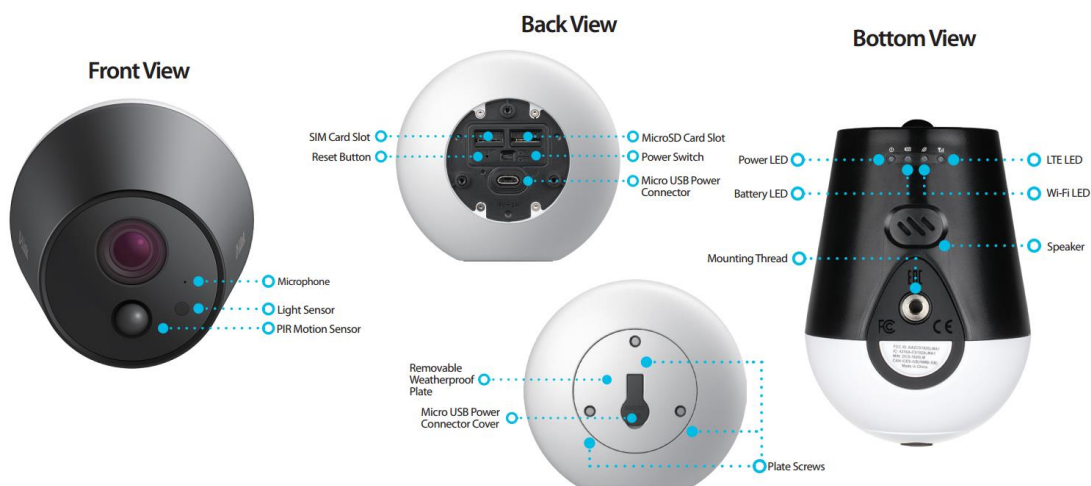
With the mydlink™ app, you have an easy and convenient way for you to look after your family or to monitor your home or office. Stay up-to-date with notifications and check in on those you love at any time. Using the mydlink™ mobile app you can view and manage your camera using your mobile device. Interact with what you're watching with two-way audio. Enjoy instant control over your home surveillance with the ability to manually trigger video recording, no matter where you are.

### Automated Video Clip Storage Through mydlink™ Cloud Recording

With a mydlink™ cloud recording subscription, you can have peace of mind with automated storage of your video recordings on a cloud server. Play back recordings in the cloud or download video clips on your mobile device anywhere, anytime through the Internet. Access real-time views of your cameras and set automated schedules using the mydlink™ mobile app. With mydlink™ Pro, your phone or tablet becomes your surveillance command center.

## 2. APPEARANCE

### DCS-1820LM Camera



## Technical Specifications

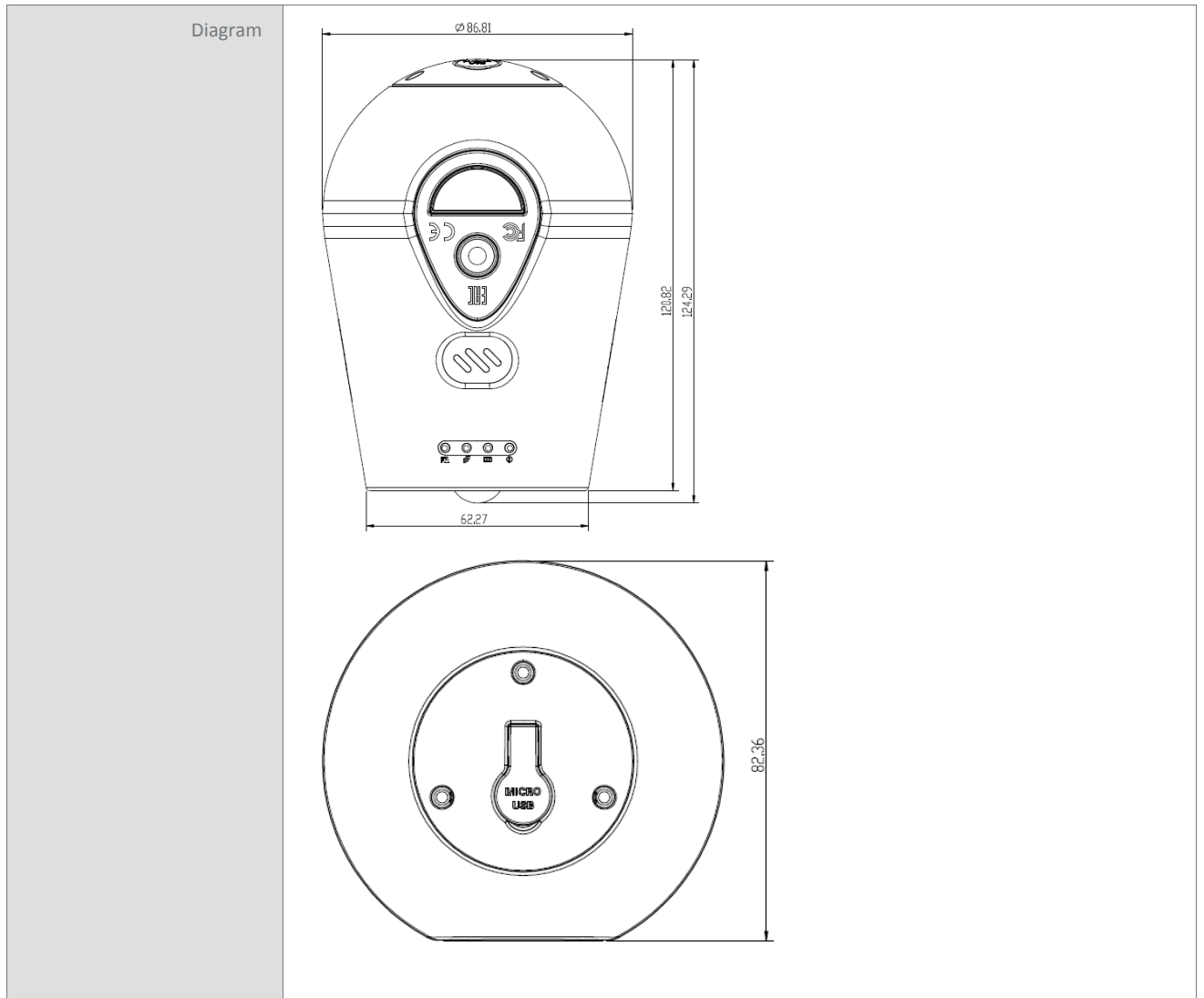
### Camera

Hardware Profile	<ul style="list-style-type: none"><li>• 1/2.9"2 megapixel progressive CMOS sensor</li><li>• Minimum illumination:<ul style="list-style-type: none"><li>• Low lux with IR LEDs on: 20 lux</li></ul></li><li>• Lens focal length: 2.8 mm</li><li>• Aperture: F1.85</li><li>• Digital zoom</li><li>• 5 m (16 ft) IR illumination distance</li><li>• Built-in light sensor</li></ul>	<ul style="list-style-type: none"><li>• Angle of view (16:9):<ul style="list-style-type: none"><li>• Horizontal: 113°</li><li>• Vertical: 62.2°</li><li>• Diagonal: 131.9°</li></ul></li><li>• Built-in microphone</li><li>• Built-in speaker</li><li>• Nano-SIM (4FF)</li><li>• 1/4x20 UNF mounting thread</li></ul>
Video Compression	<ul style="list-style-type: none"><li>• H.264 compression</li></ul>	<ul style="list-style-type: none"><li>• JPEG for still images</li></ul>
Video Resolution	<ul style="list-style-type: none"><li>• 1080p (1920 x 1080)</li></ul>	<ul style="list-style-type: none"><li>• 720p (1280 x 720)</li></ul>
Video Frame Rate	<ul style="list-style-type: none"><li>• Up to 30 fps</li></ul>	
Audio Support	<ul style="list-style-type: none"><li>• Opus 1.2.1</li></ul>	<ul style="list-style-type: none"><li>• Sample Rate: 16kHz</li></ul>

### Network

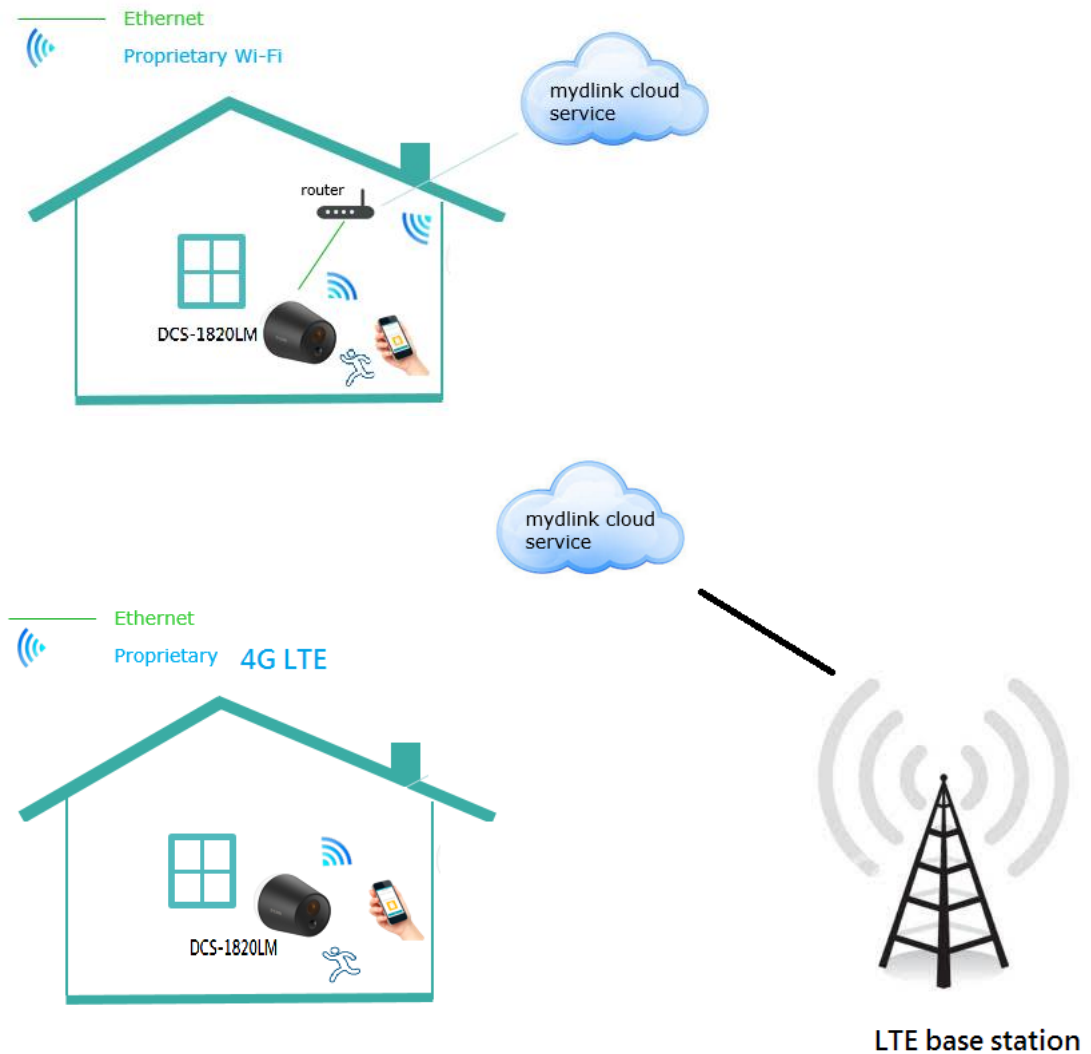
Wireless Connectivity	<ul style="list-style-type: none"><li>• 2.4 GHz: 802.11n/g/b Wi-Fi</li><li>• WPA2 and WPA-PSK encryption</li></ul>	<ul style="list-style-type: none"><li>• Bluetooth 4.2 (BLE)</li></ul>
Wi-Fi Throughput	<ul style="list-style-type: none"><li>• 2.4 GHz<ul style="list-style-type: none"><li>• Up to 72 Mbps<sup>6</sup></li></ul></li></ul>	
Mobile Network Support	<ul style="list-style-type: none"><li>• North America<ul style="list-style-type: none"><li>• LTE B2/4/13</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Europe<ul style="list-style-type: none"><li>• LTE B1/3/7/8/20</li><li>• UMTS/ HSPA/ HSPA+/DC-HSPA B1/8, 900/2100 Mhz</li></ul></li></ul>
Cellular Data Throughput	<ul style="list-style-type: none"><li>• LTE Throughput<ul style="list-style-type: none"><li>• NA/EU: Up to 75 Mbps down/50 Mbps up</li></ul></li></ul>	<ul style="list-style-type: none"><li>• DC-HSPA Throughput<ul style="list-style-type: none"><li>• EU: Up to 42 Mbps down/5.76 Mbps up (HSUPA)</li></ul></li></ul>
Network Protocols	<ul style="list-style-type: none"><li>• RTP/RTSP/RTCP</li></ul>	

General		
Buttons	<ul style="list-style-type: none"> <li>Power Switch</li> </ul>	<ul style="list-style-type: none"> <li>Reset Button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>Power</li> <li>Battery</li> </ul>	<ul style="list-style-type: none"> <li>Wi-Fi</li> <li>LTE</li> </ul>
System Integration		
Event Management	<ul style="list-style-type: none"> <li>IVA human detection</li> <li>Cloud recording</li> <li>Push notifications</li> </ul>	<ul style="list-style-type: none"> <li>Manually taken snapshots &amp; video clips are saved to mobile device, microSD card<sup>5</sup>, or the cloud</li> <li>Motion detection</li> <li>Sound detection</li> </ul>
Mobile Support	<ul style="list-style-type: none"> <li>mydlink™ apps for iPhone, iPad, iPod touch, and Android devices</li> </ul>	
Physical		
Environment	<ul style="list-style-type: none"> <li>For Indoor/Outdoor Use</li> </ul>	
IP Rating	<ul style="list-style-type: none"> <li>IP65</li> </ul>	<ul style="list-style-type: none"> <li>Weather resistant exterior</li> </ul>
Weight	<ul style="list-style-type: none"> <li>456 g (16.08 oz) ± 5%</li> </ul>	
Battery	<ul style="list-style-type: none"> <li>23.5 W, 3.6 V, 6500 mAh Lithium ion battery</li> </ul>	
Power Adapter	<ul style="list-style-type: none"> <li>Input: 100 to 240 V AC, 50/60 Hz</li> <li>Output: 5 V DC 2 A</li> </ul>	<ul style="list-style-type: none"> <li>3 mMicro-USB cable</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>Standby state: <ul style="list-style-type: none"> <li>&lt; 19 mW</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Active state: <ul style="list-style-type: none"> <li>&lt; 1,600 mW (Day mode)</li> <li>&lt; 1,800 mW (Night mode)</li> </ul> </li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Operating: -20 to 45 °C (-4 to 113 °F)</li> </ul>	<ul style="list-style-type: none"> <li>Storage: -20 to 70 °C (-4 to 158 °F)</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>Operating: 10% to 90% non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>Storage: 5% to 95% non-condensing</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>FCC</li> <li>UL</li> </ul>	<ul style="list-style-type: none"> <li>CE</li> <li>IC</li> </ul>
Dimensions ( H x W x D)	<ul style="list-style-type: none"> <li>62 x 121 x 82 mm (2.44 x 4.76 x 3.23 in)</li> </ul>	



### 3. APPLICATIONS

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### 4. INSTALLATIONS

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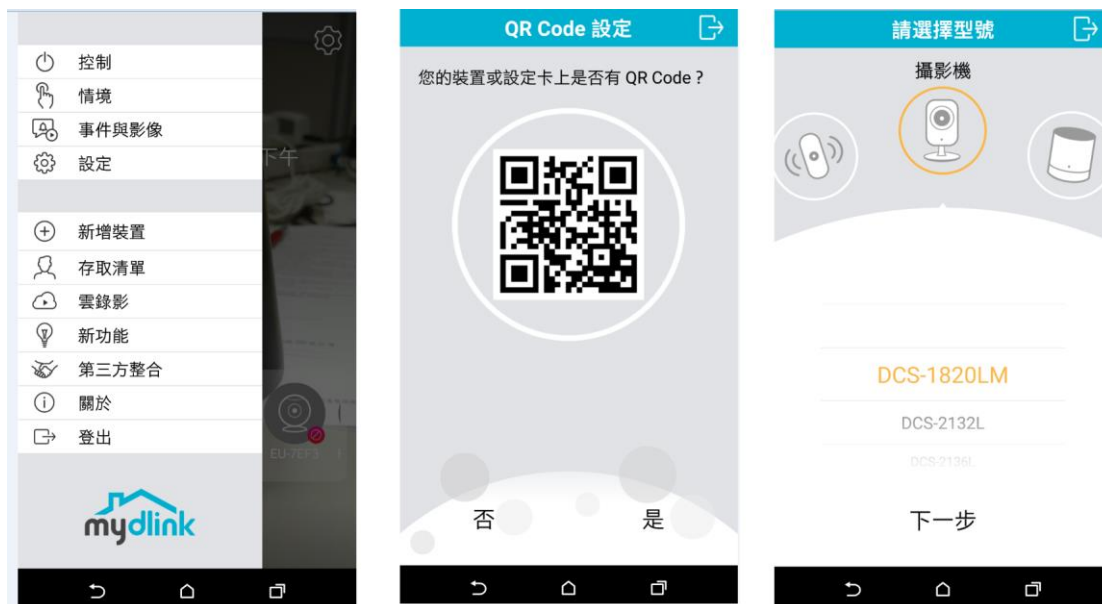
Step 1 Download mydlink App to your smart phone and register an account to login.

Step 2 Install DCS-1820LM: scan the QR code on device label of DCS-1820LM or directly select model DCS-1820LM on the menu of App.

or

Step 3 Follow the instructions shown on the App to set up DCS-1820LM.

Step 4 Add Camera: follow app instruction.



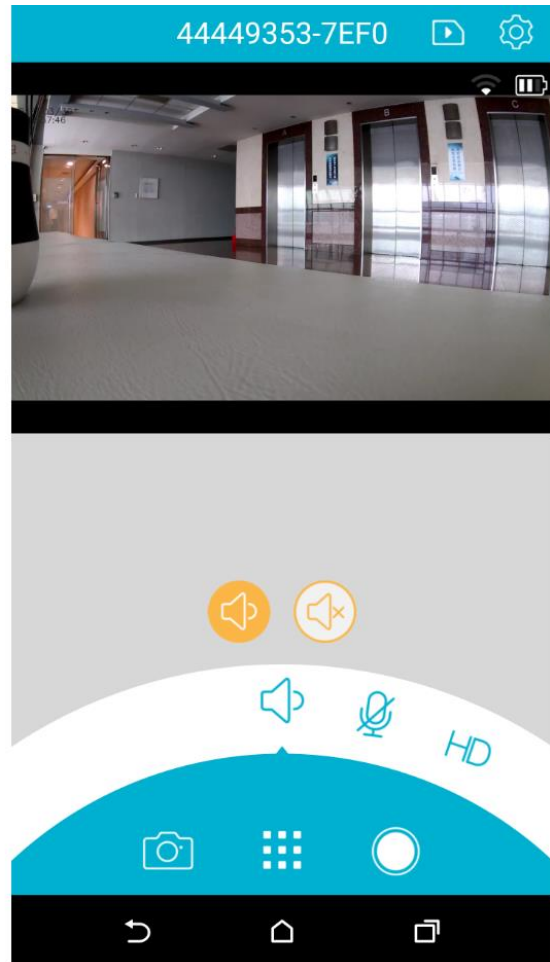
Step 5 Follow the instructions shown on the App to set up DCS-1820LM cameras (up to 4 cams can be added per hub.)







Step 6 Functionalities of Camera



## 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 20cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

## Industry Canada statement

- ❶ This device complies with Industry Canada license-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.
- ❶ 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.
- ❷ This Class B digital apparatus complies with Canadian ICES-003.
- ❷ Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- ❸ This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.
- ❸ Cet appareil est conforme à la norme RSS-310 d'Industrie Canada. L'opération est soumise à la condition que cet appareil ne provoque aucune interférence nuisible.
- ❹ This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios.
- ❹ Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.
- ❺ The County Code Selection feature is disabled for products marketed in the US/Canada.
- ❺ La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

### **Radiation Exposure Statement:**

This equipment complies with IC 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.

### **Déclaration d'exposition aux radiations:**

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

**CAUTION**  
**RISK OF EXPLOSION IF BATTERY IS REPLACED**  
**BY AN INCORRECT TYPE.**  
**DISPOSE OF USED BATTERIES ACCORDING**  
**TO THE INSTRUCTIONS**