

USER MANUAL

HOME MONITORING STARTER KIT

DHM-901T

VERSION 1.0

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.0	November 15, 2010	DHM-901T Revision A1 with firmware version 1.00

Trademarks

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Package Contents

- DHM-401T Gateway
- DHM-301T Keypad
- DHM-303T Contact Sensor
- DHM-304T Motion Sensor
- Stand for DHM-401T
- Power adapter for DHM-401T
- Bracket for DHM-304T
- Batteries for DHM-301T/303T/304T
- Mounting kits for DHM-301T/303T/304T
- Ethernet cable
- Quick Installation Guide

If any of the above items are missing, please contact your reseller.

System Requirements

- A computer with Windows XP SP2/Vista/7 or higher for configuration

Features

Contact Sensor

The DHM-303T Contact Sensor can be used to detect whether a door or window is open or closed. You can use this to provide security for windows, or to monitor entry and exit through a doorway, and can be used in tandem with other sensors and keypads to monitor and control access to an area.

Motion Sensor

The DHM-304T Motion Sensor can be used to detect motion in an area. You can change the sensor's motion detection sensitivity to help you find the right balance to detect movement without false alarms.

Heartbeat Service and Low Battery Notification

Each sensor and keypad periodically sends a "heartbeat" signal to the gateway, which notifies you when the batteries in a sensor need to be changed, or if a sensor is out of range.

Expandable System

The two USB ports allow you to expand your home monitoring system by adding adapters such as a DWM-156 3G dongle for a 3G fallback Internet connection, or a DHM-101 Z-Wave USB Dongle to allow for connection to Z-Wave devices.

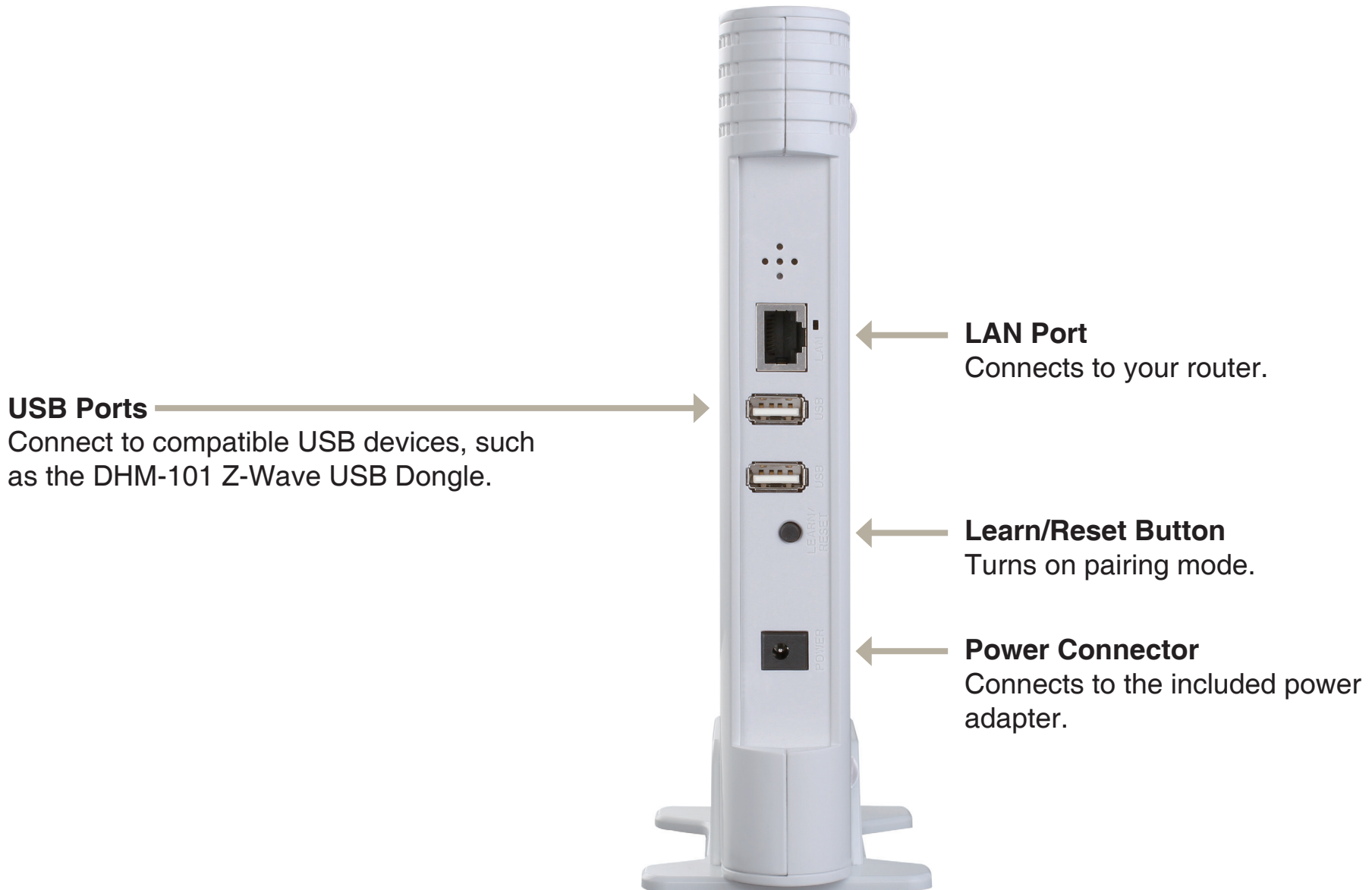
Hardware Overview: Gateway (Front)

LEDs

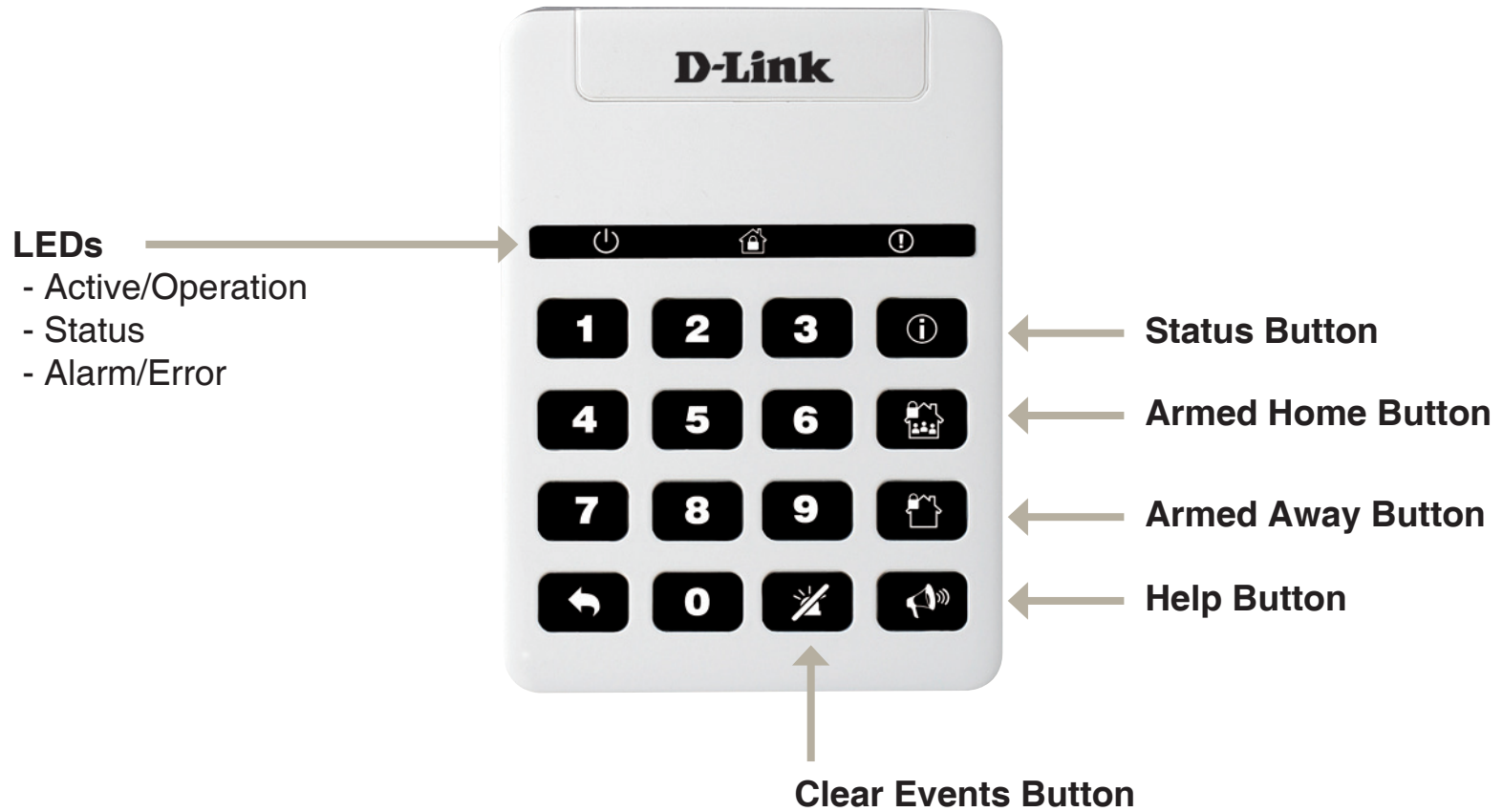
- Status
- Alarm
- Online
- Event



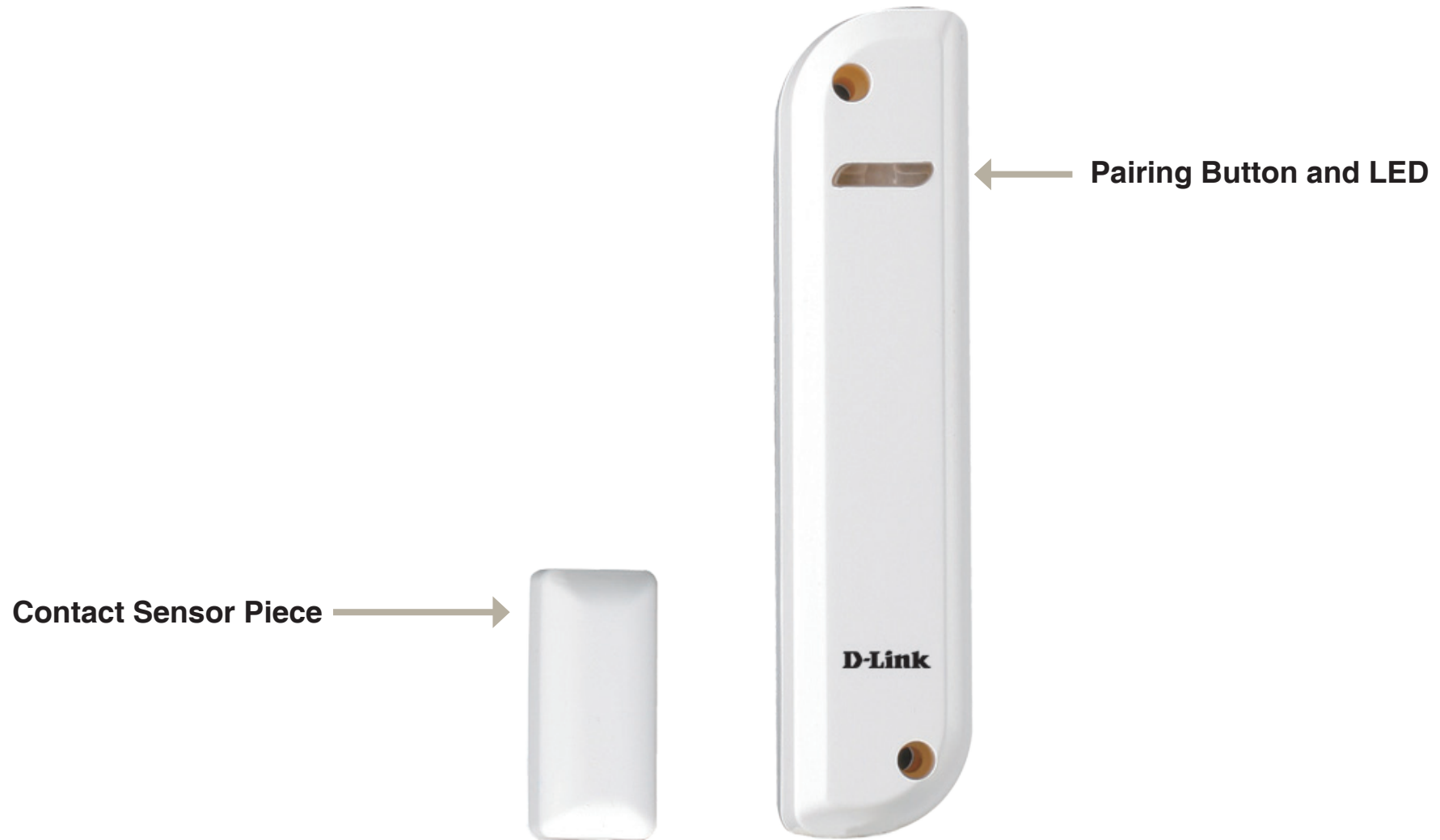
Hardware Overview: Gateway (Back)



Hardware Overview: Keypad



Hardware Overview: Contact Sensor



Hardware Overview: Motion Sensor



Hardware Installation: Gateway

Inserting batteries into your DHM-401T Gateway (optional)

- Remove the battery cover and insert 6 AAA batteries (not included) as indicated.
- Replace the battery cover.

Connect the DHM-401T Gateway

- Connect one end of the included Ethernet cable to an available LAN port on your router, and connect the other end to the WAN port on the DHM-401T.
- Connect the power adapter to the DHM-401T.

Hardware Installation: Keypad

Inserting batteries into your DHM-301T Keypad

- Slide and remove the battery cover on the back of the keypad, then insert 2 AAA batteries as indicated.
- Replace the battery cover.

Pairing the DHM-301T Keypad

- Press and hold the pairing button on the DHM-401T Gateway until you hear a beep and the Online Status LED flashes green. You now have 60 seconds to pair sensors to the gateway.
- Press and hold the 1 and 2 buttons on the DHM-301T Keypad at the same time.
- When the 2 devices have successfully paired, the DHM-401T gateway will beep 2 times, and the DHM-301T Keypad will beep 4 times.

Mounting the DHM-301T Keypad (optional)

- You can hang the keypad 2 different ways.
- You can push in and slide the D-Link logo up to uncover 2 screw holes you can use to mount the keypad to a wall using the included screws.
- Alternatively, you can insert the included screws into a wall, then use the mounting holes on the back of the keypad to hang it on the screws.

Hardware Installation: Contact Sensor

Inserting batteries into your DHM-303T Contact Sensor

- Use a coin to open the case, then lift the top cover off of the contact sensor.
- Insert the CR123A 3V battery as indicated.
- Replace the top cover of the contact sensor and make sure the two halves snap together.

Pairing the DHM-303T Contact Sensor

- Press and hold the pairing button on the DHM-401T Gateway until you hear a beep and the Online Status LED flashes green. You now have 60 seconds to pair sensors to the gateway.
- Press the pairing button on the front of the DHM-303T Contact Sensor. The LED will turn on.
- When the 2 devices have successfully paired, the DHM-401T gateway will beep 2 times, and the LED on the DHM-303T Contact Sensor will flash for 2 seconds.

Mounting the DHM-303T Contact Sensor

- Make sure your door or window is closed, then use one of the included adhesive strips from the included DHM-303T mounting kit to attach the contact sensor piece to the edge of your door or window.
- Put the screws from the included DHM-303T mounting kit through the two holes at the top and bottom of the main contact sensor and mount it to your door frame or window frame next to the contact sensor piece.
- Make sure that the main contact sensor and the contact sensor piece are aligned to that the small ridge on both parts are next to each other when your door or window is closed. The main contact sensor's LED will flash when the contact sensor piece is moved next to or away from it.

Hardware Installation: Motion Sensor

Inserting batteries into your DHM-304T Motion Sensor

- Slide and remove the battery cover on the top of the Motion Sensor, then insert 2 AAA batteries as indicated.
- Replace the battery cover.

Pairing the DHM-304T Motion Sensor

- Press and hold the pairing button on the DHM-401T Gateway until you hear a beep and the Online Status LED flashes green. You now have 60 seconds to pair sensors to the gateway.
- Press the pairing button on front of the DHM-304T Motion Sensor. The LED will turn on.
- When the 2 devices have successfully paired, the DHM-401T gateway will beep 2 times, and the LED on the DHM-304T Motion Sensor will flash for 2 seconds.

Mounting the DHM-304T Motion Sensor

- Put the screw from the included DHM-304T mounting kit through the hole in the DHM-304T bracket and mount it to a wall. Alternatively, you can use the adhesive strip from the included DHM-303T mounting kit to mount it to a wall.
- Push the ball on the DHM-304T bracket into the socket on the back of the DHM-304T Motion Sensor until it snaps into place. You can then adjust the angle and position of the Motion Sensor as you wish.

Technical Specifications

Frequency

- 315 MHz

Operating Temperature

- -10 to 50 °C (14 to 122 °F), Indoor use

Humidity

- 5% - 95% RH non-condensing

DHM-401T Gateway

- Transmission Range: Minimum 70 meters in open air
- Audio: 1 x Buzzer, 1 x Siren
- Siren Volume: 85 db
- USB: 2 x USB 2.0 compliant ports for compatible 3G dongles, Zigbee dongles, or Z-Wave dongles
- Power: External power adapter, 100-120 V 50 / 60 Hz input, 12 V / 2 A output, 6 x AAA battery for backup power
- Backup Battery Life: 50 minutes with alkaline batteries
- LEDs: Status, Alarm, Online, Event
- Dimensions: 206 x 133 x 31.5 mm

DHM-301T Keypad

- Transmission Range: Minimum 70 meters in free space
- Power: 2 x AAA batteries
- Battery Life: 1 year with alkaline batteries
- LEDs: Active/Operation, Status, Alarm/Error
- Dimensions: 90 x 66 x 21.6 mm

DHM-303T Contact Sensor

- Break Distance: >28mm
- Make Distance: <18mm
- Transmission Range: Minimum 70 metres in free space
- Power: 1 x CR-123A 3V lithium battery
- Battery Life: 3 years with alkaline battery
- LED: Pairing/Status
- Dimensions: 90 x 22 x 21.3 mm

DHM-304T Motion Sensor

- Detection Coverage: 7 meters (at 20°C)
- Detection Angle: 90 degrees
- Transmission Range: Minimum 70 metres in free space
- Power: 2 x AAA batteries
- Battery Life: 1 year with alkaline batteries
- LED: Pairing/Status
- Dimensions: 83 x 58 x 40.5 mm

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 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 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.

IMPORTANT NOTE:

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada 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.