

AirStation WMR-433 User Manual

www.buffalotech.com

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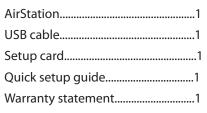
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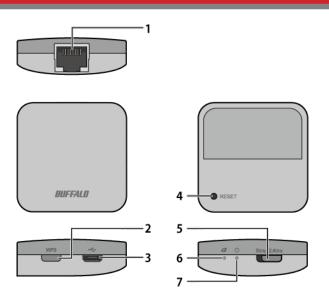
Chapter 1 - Product Overview

Package Contents

The following items are included in your AirStation package. If any of the items are missing, please contact your vender.



Diagrams and Layout



1 Internet Port

10 Mbps and 100 Mbps connections are supported. Do not connect Ethernet cable from here to your PC.

2 WPS Button

To initiate WPS, hold down this button until The power LED flashes red (about 3 seconds). Then, push or click the WPS button on your wireless client device to complete the connection. Both devices must be powered on for this to work.

3 USB Port

Connect the attached USB cable to AC adapter or PC's USB port to supply power.

4 Reset Button

To restart the AirStation, hold down this button until the power LED glows red (2-5 seconds). To initialize all AirStation settings to factory defaults, hold down this button until the LED blinks red (about 6 seconds). The power must be on for this to work.

5 GHz/2.4 GHz Selector Switch 5 GHz: Enables 5 GHz bandwidth (802.11ac/n/a). 2.4 GHz: Enables 2.4 GHz bandwidth (802.11n/g/b).



6 Link/Active LED (Green) On: Internet side is linked. **Blinking:** Transmitting data on the Internet side. Off: Internet side is not linked.



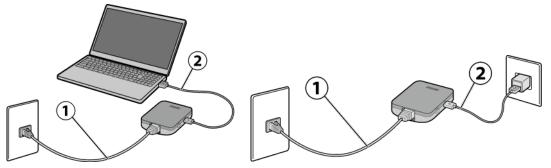
7 Power LED (Green or Red) On (Green): Power is on. Blinking (Green): Transmitting data on the LAN side. Blinking (Red): AirStation is waiting for a WPS security key or initializing. Note: Do not disconnect the USB cable while the power LED is blinking red or the AirStation is updating firmware.

Chapter 2 - Installation

Initial Setup

To configure your AirStation, follow the procedure below.

- **1** Connect the AirStation to a LAN port with an Ethernet cable.
- 2 Turn on the power. Power for the AirStation can come from a USB port on your PC or from an outlet with a USB power adapter.



- **3** Connect your PC or mobile device to the AirStation wirelessly to use the Internet.
- **4** Open a web browser.

Note: You may need to register information to connect to the Internet depending on the hotel. For more information, please contact hotel staff.

Chapter 3 - Configuration

Configuration of the AirStation is done from Settings, the web-based configuration GUI.

Accessing Settings

To configure the AirStation's settings manually, log in to Settings as shown below.

- 1 Open a browser.
- 2 Enter the AirStation's LAN-side IP address in the address field and press the enter key.



Notes:

- The AirStation's default LAN-side IP address is 192.168.13.1.
- If you changed the IP address of the AirStation, use the new IP address.
- **3** Enter "admin" for the username and the encryption key for the password, then click *OK*.



Note: Refer to the product's label or setup card for the password.

4 This is Settings, where most AirStation settings can be configured.

Setup Wizard
The setup wizard will guide you through configuring the AirStation for the first time. Follow the steps below.
The wizard will guide you through the following steps. Start by clicking on Next.
1. Select an operating mode 2. Set an SSID
2. Set an SSID 3. Select an encryption method

Note: If you cannot access Settings using the procedure above, enter "buffalo.setup" in the address field and press the enter key. If you still cannot access Settings, refer to the "Cannot Access Settings" section in chapter 4.

Setup Wizard

Setup wizard is the guide to configure the AirStation for the first time. You can configure the operating mode, SSID, and encryption method here.

BUFFALO		
Setup Wizard	Setup Wizard The setup wizard will guide you through configuring the AirStation for the first time. Follow the steps below.	
Update Firmware	The wizard will guide you through the following steps. Start by clicking on Next. 1. Select an operating mode 2. Set an SSID 3. Select an encryption method	
MV Status	Gancel Back Next	
4irStation WMR-433	C2014 Buffais Inc.	

To use the setup wizard, refer to the "Change AirStation's Settings" section.

Update Firmware

Update AirStation's firmware here. Before updating, make sure you have downloaded the latest firmware file onto your computer.

100°	Update Firmware			
Setup Wizard	This page allows you to up version. Don't turn off por			
	Firmware Version: Select File:	1.2	Browse	
date Firmware	Update Reset		biowse	
-Ar-				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				

Click Browse... and select the firmware file. Click Update to start updating.

**Note:** If the firmware file is invalid, the screen may crash during the update. If this occurs, reboot the AirStation and try updating again with a valid firmware file.

#### Status

Check AirStation's status here. You can confirm the AirStation's system information, wireless settings, TCP/IP settings, and WAN configuration.

×	Status		Î
etup Wizard			
	System		
	Uptime	0day:0h:2m:58s	
	Firmware Version	1.2	
	Built Date	Fri, 31 Jan 2014 10:14:46 +0900	
	WirelessSettings		
ate Firmware	Mode	Router Mode	
	Band	2.4 GHz (b/g/n)	
	SSID	Buffalo-G-65C8	
٨	Channel	11	
~~~	Encryption Method	WPA2 Mixed	
	BSSID	f8:35:dd:4d:65:c8	
Status	Connected Device(s)	1	
	TCP/IP Settings		
	Attain IP Protocol	Static IP Address	-

Change AirStation's Settings

You can change the AirStation's settings with the setup wizard. Refer to the following to use the wizard.

BUFFALO	
Setup Wizard	Setup Wizard The setup wizard will guide you through configuring the AirStation for the first time. Follow the steps below.
Update Firmware	The wizard will guide you through the following steps. Start by clicking on Next. 1. Select an operating mode 2. Set an SSID 3. Select an encryption method
Status	Cancel Back Next

2 Select an operating mode and click *Next*.

BUFFALO				
Setup Wizard	Operating Mode Select an operating mod	e.		
0	Router Mode:	Router functionality will be enabled. Select this for normal use, or if the AirStation is connected to a hotel's LAN port or a modem.		
Update Firmware	Access Point Mode:	Router functionality will be disabled. Select this if the AirStation is connected to a router or if you cannot connect to the Internet in router mode.		
Status		Cancel Back	Next	
AirStation WMR-433			©2014 Buffalo Inc.	

3

1

Enter an SSID and click Next.

1	Set an SSID	
Setup Wizard	Enter the SSID (wire)	ess network name) for the AirStation.
	SSID:	Buffalo-G-65C8
6		
pdate Firmware		
$\sim \sim \sim$		
V Status		
		Cancel Back Next

Notes:

- If SSID field is left blank, the SSID will not change.
- Use only alphanumeric characters for the SSID.
- 4 Configure the encryption method and click *Finish*.

BUFFALO				
Setup Wizard	Wireless 2.4 GHz Sec Select an encryption meth for protecting your data f	nod. WPA or V	VPA2 is reco	
0	Encryption Method: WP	A2 (AES)	•	
()	Pre-shared Key Format:	Password	•	
-	Pre-shared Key:	12345678		
Update Firmware				
~~~				
,				
Status				
		Car	ncel	Back Finish
AirStation WMR-433				©2014 Buttalo Inc.

#### Notes:

- You can use "No encryption", "WEP", "WPA (AES)", "WPA2 (AES)", or "WPA2 mixed mode" for the encryption method.
- When using WEP, WPA (AES), or WPA2 (AES), select the key format before entering the key. Refer to the chart below on entry rules. Use only alphanumeric characters.

	ASCII	Hex
No encryption	-	-
WEP (64-bit)	5 characters (case-sensitive)	10 digits
	5 characters (case-sensitive)	0-9, a-f (not case-sensitive)
WED (120 bit)	12 share store (see sonsitive)	26 digits
WEP (128-bit)	13 characters (case-sensitive)	0-9, a-f (not case-sensitive)
WPA (AES)		
WPA2 (AES)	8-63 characters (case-sensitive)	64 digits
WPA2 mixed mode		0-9, a-f (not case-sensitive)

#### **5** Click *Reboot Now*.

BUFFALD		
Setup Wizard	<b>Configuration finished.</b> Reboot the AirStation to apply the changes. Click 'Reboot Now' to restart the AirStation now, or click 'Reboot Later' if you want to make additional changes.	
Update Firmware	Reboot Now Reboot Later	
∽√\/∽ Status		
AirStation WMR-488	© 2014 Burthio Inc.	

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The AirStation will reboot, which will take about 1 minute.

#### Configuration finished.

The AirStation is now rebooting. Do not turn off or reboot the AirStation.

Please wait 19 seconds...

7 When "Rebooted." is displayed, the AirStation is ready to use.

#### Configuration finished.

The AirStation is now rebooting. Do not turn off or reboot the AirStation.

Rebooted. Close all web browsers.

If you changed the SSID and/or encryption method, reconnect to the AirStation with the new SSID and encryption method.

### Notice for 2.4 GHz Bandwidth

By default, the 2.4 GHz maximum baud rate is 72.2 Mbps (20 MHz bandwidth). After configuration with the setup wizard, its maximum baud rate changes to 150 Mbps (40 MHz bandwidth). For 5 GHz, the maximum baud rate is 433.3 Mbps (80 MHz bandwidth) by default.

# **Chapter 4 - Troubleshooting**

#### **Cannot Access Settings**

- See chapter 3 for instructions to open Settings.
- Enter the correct username and password to log in to Settings. If you are using AirStation with factory default settings, refer to the setup card.
- Verify that your web browser is not set to use proxies.
- Make sure that your PC is configured to "obtain an IP address automatically from DHCP".
- Restart your AirStation.
- If the AirStation is in bridge mode, follow the procedure below to access Settings.
- (1) Disconnect the Ethernet cable from the AirStation.
- (2) Disconnect the USB cable from the AirStation and connect it to the AirStation again.
- (3) Refer to "How to Configure TCP/IP" section to configure your PC's IP address as "192.168.13.xxx".
- (4) Open a web browser and enter "192.168.13.1" in the address field.
- (5) Enter "admin" for the username and the encryption key for the password, then click OK.
- (6) Settings is displayed.

### **Cannot Connect to the Network Wirelessly**

• Configure your wireless client with the same SSID, encryption type, and encryption key as set on the AirStation. The factory defaults are:

SSID (11n/g/b) - Buffalo-G-XXXX (where "XXXX" is the last 4 digits of the AirStation's MAC address)

SSID (11ac/a/n) - Buffalo-A-XXXX (where "XXXX" is the last 4 digits of the AirStation's MAC address) Encryption Type - WPA2 (AES)

Encryption Key - Printed on the setup card

- Place your AirStation and wireless devices 2 10 feet apart.
- Restart your AirStation.

#### Cannot Connect to the Network with 5 GHz

- Move the 5 GHz/2.4 GHz selector switch to 5 GHz.
- Confirm that your PC is compatible with 5 GHz bandwidth.

#### Forgot AirStation's SSID, Encryption Key, or Password

Hold down the reset button on the base of your AirStation for about 7 seconds to initialize its settings. All settings, including your password, SSID, and encryption key will be initialized to their defaults.

Hold down this button for 2-5 seconds to reboot the AirStation without initializing.

### How to Configure TCP/IP

### Windows 8.1/Windows 8

To configure TCP/IP in Windows 8.1 or Windows 8, follow the procedure below.

- 1 Open Control Panel.
- **2** Click Network and Internet.
- **3** Click Network and Sharing Center.
- 4 Click *Change Adapter Settings* on the left side menu.
- **5** Right-click the network adapter, then click *Properties*.
- **6** If the "User Account Control" screen opens, click Yes or Continue.
- **7** Select Internet Protocol Version 4 (TCP/IPv4) then click Properties.
- 8 To have DHCP set your IP address settings automatically, check *Obtain an IP address automatically* and *Obtain DNS server address automatically*. Alternately, you can configure the settings manually. Example: If the router's IP address is 192.168.13.1, IP address: 192.168.13.80 Subnet mask: 255.255.255.0 Default gateway: 192.168.13.1 Preferred DNS server: 192.168.13.1 Alternate DNS server: blank
- 9 Click OK.

### Windows 7

To configure TCP/IP in Windows 7, follow the procedure below.

- **1** Open Control Panel.
- **2** Click Network and Sharing Center.
- **3** Click Change Adapter Settings on the left side menu.
- **4** Right-click the network adapter, then click *Properties*.
- 5 If the "User Account Control" screen opens, click Yes or Continue.
- **6** Select Internet Protocol Version 4 (TCP/IPv4) then click Properties.

To have DHCP set your IP address settings automatically, check Obtain an IP address automatically and Obtain DNS server address automatically.
 Alternately, you can configure the settings manually. Example:
 If the router's IP address is 192.168.13.1,
 IP address: 192.168.13.80
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.13.1
 Preferred DNS server: 192.168.13.1
 Alternate DNS server: 192.168.13.1

8 Click OK.

### Windows Vista

To configure TCP/IP in Windows Vista, follow the procedure below.

#### **1** Open Control Panel.

- **2** Click Network and Sharing Center.
- **3** Click *Manage network connections* on the left side menu.
- **4** Right-click the network adapter, then click *Properties*.
- 5 If the "User Account Control" screen opens, click Yes or Continue.
- **6** Select Internet Protocol Version 4 (TCP/IPv4) then click Properties.

To have DHCP set your IP address settings automatically, check Obtain an IP address automatically and Obtain DNS server address automatically.
 Alternately, you can configure the settings manually. Example:
 If the router's IP address is 192.168.13.1,
 IP address: 192.168.13.80
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.13.1
 Preferred DNS server: 192.168.13.1
 Alternate DNS server: blank

8 Click OK.

### Windows XP

To configure TCP/IP in Windows XP, follow the procedure below.

- **1** Open Control Panel.
- **2** Double-click *Network*.
- **3** Right-click the network adapter, then click *Properties*.
- **4** Select Internet Protocol (TCP/IP) then click Properties.
- To have DHCP set your IP address settings automatically, check Obtain an IP address automatically and Obtain DNS server address automatically.
  Alternately, you can configure the settings manually. Example:
  If the router's IP address is 192.168.13.1,
  IP address: 192.168.13.80
  Subnet mask: 255.255.255.0
  Default gateway: 192.168.13.1
  Preferred DNS server: 192.168.13.1
  Alternate DNS server: blank
- 6 Click OK.

### Mac OS

To configure TCP/IP in Mac OS, follow the procedure below.

- 1 Click Apple menu > System Preferences....
- **2** Click Network.
- **3** Click the network adapter.
- 4 To have DHCP set your IP address settings automatically, select Using DHCP in the "Configure IPv4" field. Alternately, you can configure the settings manually. Example: If the router's IP address is 192.168.13.1, IP address: 192.168.13.80 Subnet mask: 255.255.255.0 Default gateway: 192.168.13.1 Preferred DNS server: 192.168.13.1 Alternate DNS server: blank
- **5** Click Apply.

### **Other Tips**

#### Issue:

I reset my AirStation to factory default settings and forgot how to log in to Settings.

#### Answer:

Open your browser, enter 192.168.13.1 as the browser address, and hit the enter key. You will be prompted to log in. Enter "admin" for the username and "password" for the password. Click *OK* to log in.

#### Issue:

How do I enable or modify security encryption settings on the AirStation?

#### Answer:

Log in to Settings and navigate to *Setup Wizard - Wireless 2.4 GHz Security Settings* or *Setup Wizard - Wireless 5 GHz Security Settings*. Buffalo recommends using WPA2-PSK AES for wireless encryption. The passphrase or key should be at least 8 characters in length.

#### Issue:

How do I change my AirStation's SSID?

#### Answer:

Log in to Settings and navigate to *Setup Wizard* - *Set an SSID*. Enter a new name for your network and click *Next*. Once the AirStation has rebooted, you will need to reconnect any wireless clients to the AirStation using the new network name. The encryption key will still be the same.

#### Issue:

Though I am able to successfully make a connection with my AirStation, I am unable to access the Internet with my web browser.

#### Answer:

First, confirm that the Ethernet cable is correctly connected to the Internet port. If there is no problem with the Ethernet cable, reboot the AirStation. If you still cannot access the Internet, check the settings of the router that the AirStation is connected to. If you are using the AirStation in a hotel, call hotel staff to check the connection.

#### Issue:

Where can I download the latest drivers, firmware, and instructions for my Buffalo wireless products?

#### Answer:

The latest drivers and firmware are available online at www.buffalotech.com.

# **Appendix A - Supplemental Information**

### **Default Configuration Settings**

Feature	Parameter	Default Setting
	IP Address	192.168.13.1 (fixed)
LAN Settings	DHCP Server	Enabled
	DHCP IP Address Pool	192.168.13.2 to 192.168.13.65 (fixed)
Wireless Settings	SSID	2.4 GHz: Buffalo-G-XXXX
		5 GHz: Buffalo-A-XXXX
		(where "XXXX" is the last 4 digits of the AirStation's MAC address)
	Encryption Method	WPA2 (AES)
	Pre-shared Key Format	Password
	Pre-shared Key	The 8-digit random number printed on the setup card.
	Wireless Channel	Auto (fixed)
	Bandwidth	2.4 GHz: 20 MHz (40 MHz after setup wizard is finished)
		5 GHz: 80 MHz (fixed)
Administration	Username	admin (fixed)
	Password	The 8-digit random number printed on the setup card.

**Note:** The LAN-side IP address will automatically change to avoid duplicating the Internet-side IP address. For example, If the Internet-side IP address is "192.168.13.xxx", the LAN-side IP address will change to "192.168.12.1".

### **Technical Specifications**

Wireless LAN Interface		
Standard Compliance	IEEE 802.11ac / IEEE 802.11n / IEEE 802.11a / IEEE 802.11g / IEEE 802.11b	
Transmission Method	Direct sequence spread spectrum (DSSS), OFDM, SISO	
Frequency Range	Available frequencies depend on the country of purchase.	

	IEEE 802.11ac 20 MHz BW <long gi="">:</long>
	78/65/58.5/52/39/26/19.5/13/6.5 Mbps (1 stream)
	IEEE 802.11ac 20 MHz BW <short gi="">:</short>
	86.7/72.2/65/57.8/43.3/28.9/21.7/14.4/7.2 Mbps (1 stream)
	IEEE 802.11ac 40 MHz BW <long gi="">:</long>
Transmission Rate	180/162/135/121.5/108/81/54/40.5/27/13.5 Mbps (1 stream)
802.11ac	IEEE 802.11ac 40 MHz BW <short gi="">:</short>
	200/180/150/135/120/90/60/45/30/15 Mbps (1 stream)
	IEEE 802.11ac 80 MHz BW <long gi="">:</long>
	390/351/292.5/263.3/234/175.5/117/87.8/58.5/29.3 Mbps (1 stream)
	IEEE 802.11ac 80 MHz BW <short gi="">:</short>
	433.3/390/325/292.5/260/195/130/97.5/65/32.5 Mbps (1 stream)
	IEEE 802.11n 20 MHz BW <long gi="">:</long>
	65/58.5/52/39/26/19.5/13/6.5 Mbps (1 stream)
	IEEE 802.11n 20 MHz BW <short gi="">:</short>
	72.2/65/57.8/43.3/28.9/21.7/14.4/7.2 Mbps (1 stream)
	IEEE 802.11n 40 MHz BW <long gi="">:</long>
Transmission Rate	135/121.5/108/81/54/40.5/27/13.5 Mbps (1 stream)
802.11n/a/g/b	IEEE 802.11n 40 MHz BW <short gi="">:</short>
002.1111/0/9/0	150/135/120/90/60/45/30/15 Mbps (1 stream)
	IEEE 802.11a / IEEE 802.11g:
	54/48/36/24/18/12/9/6 Mbps
	IEEE 802.11b:
Access Mode	11/5.5/2/1 Mbps
	Infrastructure Mode
Security Wired Interface	WPA2-PSK (AES), WPA-PSK (AES), WPA2 mixed PSK (AES), WEP (128 bit/64-bit)
Standard Compliance	IEEE 802.3u (100BASE-TX) / IEEE 802.3 (10BASE-T)
Transmission Rate	10 / 100 Mbps
Transmission Encoding	100BASE-TX 4B5B/MLT-3, 10BASE-T Manchester Coding
Access Method	CSMA/CD
Speed and Flow Control	10 / 100 Mbps, Auto Sensing, Auto MDIX
USB Interface	
Number/Type of Port	1 Micro USB port
Other	
Power Supply	5V
Power Consumption	About 2.5 W (Max)
Dimensions	45 x 45 x 15 mm (1.77 x 1.77 x 0.59 in.)
Weight	19 g (0.7 oz.)
Operating Environment	0 - 40° C (32 - 104° F), 10 - 85% (non-condensing)

#### **Environmental Information**

- The equipment that you have purchased has required the extraction and use of natural resources for its production.
- The equipment may contain hazardous substances that could impact health and the environment.
- In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems.
- The take-back systems will reuse or recycle most of the materials of your end life equipment in a sound way.
- The crossed-out wheeled bin symbol invites you to use those systems.



• If you need more information on collection, reuse, and recycling systems, please contact your local or regional waste administration.

### **GPL Information**

The source code for Buffalo products that use GPL code is available at http://opensource.buffalo.jp/.

# Appendix B - Regulatory Compliance Information

The information below is only for US and Canada region.

Only use the cables and accessories that are included in the package. Don't use other accessories or cables unless specifically instructed to in the documentation.

#### **Company Information**

Buffalo Americas, Inc. 11100 Metric Boulevard suite 750 Austin Texas 78758 +1-512-349-1500

#### FCC 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.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End-users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 1.5 cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### IC statement (IC déclaration)

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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes:

(1) le dispositif ne doit pas produire de brouillage préjudiciable, et

(2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

(i) The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to cochannel mobile satellite systems.

(ii) The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

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.

(i) Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

(ii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à.d., qu'ils ont la priorité) pour les bandes 5250–5350 MHz et 5650–5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End-users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 1.5 cm between the radiator & your body.

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

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry

Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

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 1.5 cm de distance entre la source de rayonnement et votre corps.

L'antenne utilisée pour ce transmetteur ne doit pas être co-localisés en conjonction avec toute autre antenne ou

transmetteur.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.