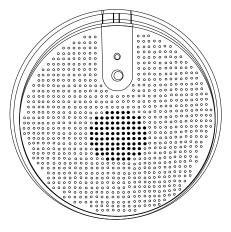
# 1168 CO/Smoke Combo Detector

### INSTALLATION AND PROGRAMMING GUIDE





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## ABOUT THE 1168

The 1168 Wireless CO/Smoke Combo Detector features multi-criteria smoke sensing using a combination of photoelectric, heat, IR flame flicker, and carbon monoxide indicators. The 1168 reports both fire and CO alarms to the control panel. Use the onboard wireless transmitter to connect the 1168 with DMP 1100 Series Wireless Receivers.

### INDICATOR LEDS

The 1168 has a multi-color top LED that indicates the state of the device:

- **GREEN** = Supervisory indication; blinks during power on, reset, and during normal operation
- **AMBER** = Signal maintenance and trouble events
- **RED** = Alarm condition (Smoke/CO) Indicator lights on the side display alarms:
  - **RED** = Smoke
  - BLUE = CO

### POWER SUPPLY

The 1168 is powered by four 3.0 V lithium batteries. Typical battery life expectancy for the 1168 is at least one year.

### **VOICE ANNUNCIATION**

The 1168 audibly announces alarm and maintenance requirements, enhancing occupant understanding and evacuation.

### TAMPER MAGNET

The 1168 features a tamper magnet which sends a trouble message to the panel if the detector is removed from the mounting base.

### CADENCE SYNCHRONIZATION

The 1168 provides cadence synchronization with other 1168s on the system. This option can be enabled in device programming.

1

#### **1168 FEATURES** CO Test Button O -O Smoke Test Button 0 0 0 0 0 0 0 0 0 0 0 0 0 . . . . . . . . 0 0 0 0 0 0 0 . . . . . . . . . 0 0 Indicator . . . . . . . . . . Indicator . . . . . . . . . . . . 0 0 0 0 0 0 LED Lights 0 IR Flame റ 0 0 0 0 0 0 0 0 0 0 0 Detector 0.0 0 0 0 0 0 0 0 0 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Indicator Lights 0 0 0 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0.0 0.0 0 0 0 0 0 0 ~ 0 0 0 ~ 0.0 0 0 0 0 0.0

Figure 1: 1168 Features

1168 CO/Smoke Combo Unit Installation and Programming Guide

### **PROGRAM THE 1168**

When programming an 1168 CO/Smoke Combo Detector, refer to the appropriate panel programming guide as needed.

PROGRAMMER MENU PROGRAMMER Enter 6653 (PROG) at the keypad to enter the **PROGRAMMER** menu. ZONE INFORMATION ZONE INFORMATION Press CMD until ZONE INFORMATION displays. Press a select key or area to enter the menu. **70NF NUMBER** ZONE NO: Enter the zone number. Press CMD. **Note**: The 1168 takes up to three zone numbers (Smoke, CO. Temp). The zone numbers must be consecutive. **70NF NAME** UNUSED \* Denote the zone name as a fire zone. Press CMD. **70NF TYPF** ZONE TYPF Press any select area. Press CMD to move to the next set of FL ΡN EM SV menu options. Select FI (fire) as the ZONE TYPE.



0

NEXT ZONE? NO YES

WIRELESS? YES

#### FIRE BELL OUT Default is 0. Press CMD.

NEXT ZONE At the NEXT ZONE? prompt. select NO.

### WIRELESS

At the WIRELESS? prompt, select YES.



**Note:** If you are programming the 1168 onto a zone that can be either hardwired or wireless, then this prompt appears. If the zone you are programming is wireless-only, then the prompt does not appear.

TRANSMITTER SERIAL #: - SERIAL NUMBER

Enter the eight-digit **SERIAL #: -** found on the device and press **CMD**.

#### CONTACT: 1

CONTACT: FIRE

### CONTACT NUMBER

Enter the contact number as 1 and press CMD.

### CONTACT TYPE

Enter the **CONTACT** type as **FIRE** and press **CMD**.

#### SUPVSN TIME:240

NEXT ZN? YES

ZONE NO:

\* UNUSED \*

ZONE TYPE

CO

IN

0

FIRE BEL OUT:

### Enter the **SUPVSN TIME**, and press **CMD**.

SUPERVISION TIME

NEXT ZONE At the NEXT ZONE? prompt, select YES.

### ZONE NUMBER

Enter the zone number. This number must be consecutive with the previous zone. For example, if **500** was entered for Fire, **501** should be entered here. Press **CMD**.

### ZONE NAME

Denote the zone name as a carbon monxide (CO) zone. Press  $\ensuremath{\textbf{CMD}}$ 

### ZONE TYPE

Press any select area. Press **CMD** three times to move to the last set of menu options. Select **CO** (carbon monoxide) as the **ZONE TYPE**.

FIRE BELL OUT Default is **0**. Press **CMD**. NEXT ZONE? NO YES

WIRELESS? YES

NEXT ZONE At the NEXT ZONE? prompt, select NO.

### WIRELESS

CMD

At the **WIRELESS?** prompt, select **YES**.

**Note:** If you are programming the 1168 onto a zone that can be either hardwired or wireless, then this prompt appears. If the zone you are programming is wireless-only, then the prompt does not appear.

Enter the eight-digit SERIAL #: - found on the device and press

TRANSMITTER

SERIAL #: -

CONTACT: 2

CONTACT: CO

CONTACT TYPE

CONTACT NUMBER

SERIAL NUMBER

Enter the **CONTACT** type as **CO** and press **CMD**.

Enter the contact number as 2 and press CMD.

SUPVSN TIME:240

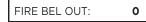
### SUPERVISION TIME Enter the SUPVSN TIME, and press CMD.

#### NEXT ZN? YES

ZONE NO:

ZONE NAME:

ZON	E TYPE		
FI	PN	EM	SV



NEXT ZONE? NO YES

## NEXT ZONE

At the **NEXT ZONE?**, prompt, select **YES**.

### ZONE NUMBER

Enter the zone number. This number must be consecutive with the previous zones. For example, if **500** was entered for Fire and **501** was entered for CO, **502** should be entered here. Press **CMD**.

### ZONE NAME

Denote the zone name as a temperature (TEMP) zone. Press  $\ensuremath{\textbf{CMD}}$ 

### ZONE TYPE

Press any select area. Press CMD to move to the next set of menu options. Select **SV** as the **ZONE TYPE**.

FIRE BELL OUT

Default is **0**. Press **CMD**.

NEXT ZONE At the NEXT ZONE? prompt, select NO.

#### WIRFLESS? YES

### WIRFI FSS

At the WIRELESS? prompt. select YES.



**Note:** If you are programming the 1168 onto a zone that can be either hardwired or wireless, then this prompt appears. If the zone you are programming is wireless-only. then the prompt does not appear.

### TRANSMITTER

SERIAL #: -

CONTACT: 3

CONTACT: TEMP

SUPVSN TIME:240

#### NEXT ZN? NO

### SERIAL NUMBER

Enter the eight-digit SERIAL #: - found on the device and press CMD.

### CONTACT NUMBER

Enter the contact number as **3** and press **CMD**.

#### CONTACT TYPE Enter the **CONTACT** type as **TEMP** and press **CMD**.

SUPERVISION TIME Enter the SUPVSN TIME, and press CMD.

NEXT ZONE At the NEXT ZONE?, prompt, select NO. BELL OPTIONS

**BELL OPTIONS** 

Press CMD until BELL OPTIONS displays, and then press a select key or area.

FIRE BELL ACTION .... FIRE TYPE: Т

### FIRE BELL ACTION

At FIRE BELL ACTION FIRE TYPE:, select T (temporal) as the action type.

Note: Program this option to enable cadence

synchronization with other 1168 units on the system.

## **SELECT A LOCATION**

Use the LED survey operation to select a proper location for the 1168. The LED survey operation allows one person to confirm communication with the wireless receiver or panel while the cover is removed. Because the transmitter LED on the 1168 is not visible, use a separate 1100 Series transmitter for the LED survey operation, such as the 1106 Universal Transmitter.

- 1. Hold the 1106 in the exact desired location.
- 2. Press the tamper switch on the 1106 to send data to the panel and determine if communication is confirmed or faulty.



**Confirmed:** If communication is confirmed, for each press or release of the tamper switch the LED blinks immediately on and immediately off.



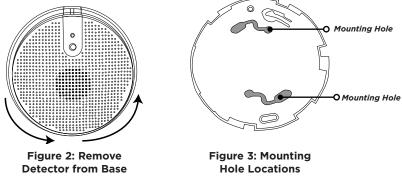
**Faulty:** If communication is faulty, the LED remains on for up to eight seconds or flashes multiple times in a quick succession. Relocate the wireless receiver until the LED confirms clear communication.

### **INSTALL THE 1168**

### MOUNT THE BASE

After selecting a location, mount the 1168 on a flat wall or ceiling. The ensure optimum performance, mount the 1168 away from large metal objects. See Mounting Guidelines for more information.

- 1. Grasp the detector and twist counterclockwise to remove the detector from the mounting base. See Figure 2.
- 2. Use the supplied screws and anchors to mount the base to the surface. See Figure 3.



### ) INSTALL THE BATTERY

 The 1168 comes pre-installed with four 3.0 V lithium batteries. Firmly grasp the battery pull-tab on the battery compartment and remove it. See Figure 4.

### Z REPLACE THE COVER

After installing the battery, replace the cover back on the base. Follow the directions below:

- 1. Place the detector on the base, aligning the raised tab on the detector's lip and the cover latch on the base's lip.
- 2. Rotate the detector until it clicks into place.
- Remove the orange plastic dust cover from the detector once installation (and any surrounding construction) is complete.

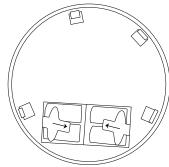


Figure 4: Battery Location

### **MOUNTING GUIDELINES**

In addition to NFPA 72, use the following location guidelines to optimize performance and reduce false alarms. Refer to Figure 5.

- Place ceiling-mounted smoke detectors in the center of a room/hallway at least 4 inches from walls and partitions. If a ceiling is sloped, peaked, or gabled, place the detector 3 feet from the highest-point. If mounting to suspended ceiling tile, the tile must be secured with an appropriate fastener across ceiling panel supports.
- Place wall-mounted smoke detectors at least 4 inches below the ceiling.
- Mount smoke detectors on a firm, permanent surface.
- Place in environmentally-controlled areas with a temperature range between 40° and 100° F (4.4° and 37.8° C) and the humidity is between 0 and 90% non-condensing.

### AUTHORITY HAVING JURISDICTION

A proper location is critical to ensuring proper operation. Equipment should be installed in accordance with the National Fire Protection Association's (NFPA) Standard 72, Chapters, 2 and 8. You may need to reference other chapters of NFPA 72 or NFPA 101.

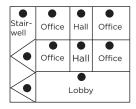
Smoke detector regulations vary from state to state, so contact the Authority Having Jurisdiction (AHJ). Where public safety is primary, the AHJ may be a federal, state, local, or other regional department or individual (such as a fire chief, fire marshal, chief of a fire prevention bureau, labor or health department, building official, electrical inspector, or others having statutory authority.

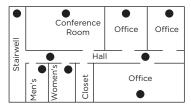
For insurance purposes, an AHJ may be an insurance inspection department, rating bureau, or other insurance company representative. Sometimes, a property owner or their designated agent assumes the role of the AHJ. At government installations, the commanding officer or department official may be the AHJ.

### LOCATIONS TO AVOID

Smoke detectors should not be installed in or near the following locations:

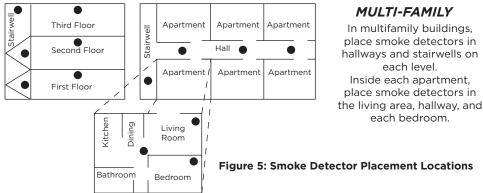
- In/near areas where combustion particles are common (kitchens, garages, furnaces, hot water heaters, or gas space heaters).
- On ceilings in rooms next to kitchens if there is no transom between the room and the kitchen.
- In damp or humid areas, such as bathrooms with showers.
- In extremely cold or hot areas.
- In dusty, dirty, or insect-infested areas.
- Near air conditioners, heating registers, or any other ventilation source that may interfere with smoke entering the detector.
- Near fresh air inlets/returns or excessively drafty areas (heating/air conditioning vents, fans, etc.).
- In dead-air spaces at the top of peaked ceilings or corners where walls and ceiling meet.
- Near fluorescent light fixtures (smoke detectors should be at least 10 feet away).





### COMMERCIAL

In commercial buildings, place smoke detectors in stairwells and every room on each level.



### MULTI-FAMILY

### **TEST THE 1168**

### SMOKE TEST

- 1. Press the Smoke Test button on the 1168.
- 2. Hold a container of canned smoke close to the smoke entry openings.
- 3. Spray the smoke directly into the detector for 20 seconds or until the 1168 goes into alarm.

### CO TEST

- 1. Press the CO Test button on the 1168.
- 2. Hold a container of Solo C6 CO Detector Tester (or similar) close to the CO Gas Port.
- 3. Spray the can directly into the detector for 20 seconds or until the 1168 goes into alarm.

LED Indication and Sounder during Test and Trouble				
Mode	Status LED (Top)	Side LED Windows	Sounder	Speaker
Smoke Test <sup>1;2</sup>	Blink <b>RED</b> once every sec	Dark	Temp-3	Voice smoke warning and alarm signal transmission
Smoke System (functional)	Blink <b>RED</b> once every 10 secs	Blink once every 10 secs		
RealTest <sup>™</sup> Functional CO Test <sup>1,2</sup> —Waiting for gas entry	Blink <b>GREEN</b> once a sec	Dark	Silent	Voice instructions and warning of alarm signal
RealTest™ Functional CO Test—Successful gas entry	Blink <b>RED</b> every 10 secs	Blink Blue every 10 secs	Modified Temp-4	Voice CO warning
Low Battery	Blink <b>AMBER</b> every 10 secs	Dark	Chirp every 45 secs after 7 days	Voice instructions when chirp is hushed by pressing either test button

Mode	Status LED (Top)	Side LED Windows	Sounder	Speaker
Smoke Maintenance	Blink <b>AMBER</b> every 5 secs	Dark	Silent	Voice smoke maintenace instructions if either test button is pressed
CO Trouble	Double Blink <b>AMBER</b> every 5 secs	Dark	Silent	
CO End of Life <sup>3</sup> —First 29 days	Double Blink AMBER every 3 secs	Dark	Silent	Voice end of life instructions when either test button is pressed
CO End of Life <sup>3</sup> —First 30 days	Double Blink AMBER every 3 secs	Dark	Chirp every 45 secs	Voice end of life instructions when either test button is pressed
Freeze Warning (low temp)	Blink <b>RED</b> every 10 secs			

<sup>1</sup> Test activated by the test switch or from the controller. Detector is functioning properly (within proper sensitivity).

 $^{\rm 2}\,$  If Test mode is activated and the LED and Sounder do not function, check for maintenance or trouble conditions.

<sup>3</sup> Starts chirping after 30 days, continues until the batteries are replaced or die.

### ADDITIONAL INFORMATION

### RESET THE LANGUAGE SELECTION

Press and hold both the Smoke and CO test switch simultaneously for 10 seconds, then release. The green light will flash rapidly. Press and hold both buttons again for one second and release. The sensor begins speaking a welcome message. Language selection can now be made. The options are English and Spanish.

### SUPERVISION MESSAGE

When a wireless receiver is installed, a receiver is restarted, the panel is reset, or if programming is complete, then the supervision time is reset. If the receiver has been powered down for more than one hour, then the 1168 may take up to an additional hour to send a supervision message. A missing message may display on the keypad until the supervision message is sent.

### INSPECTION TESTING AND MAINTENANCE

The 1168 is designed for easy field service and maintenance. When installed and used properly, the 1168 requires minimal maintenance. The device should be functionally tested per NFPA 72 for system type smoke detectors. When a smoke detector requires maintenance, the red LED blinks every 5 seconds.



**Caution:** Smoke alarms cannot provide warnings for fires resulting from explosions, smoking in bed or other furniture, ignition of flammable liquids, vapors and gases, children playing with matches or lighters.

### **REPLACE THE BATTERIES**

Caution: The batteries used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C (212°F) or dispose of in fire. Use only Panasonic CR123A Lithium batteries. Use of other batteries may present a risk of fire or explosion. Keep used batteries away from children. Dispose of used batteries properly.

Remove old batteries. Wait 10 seconds and then replace with four new batteries. To avoid a low battery indication when installing new batteries, all four batteries must be installed within 15 seconds of installing the first one. Any low battery condition that may have occurred should clear when the backplate is installed.

### NFPA 72 GUIDELINES

### Total (Complete) Coverage

If required, total coverage shall include all rooms, halls, storage areas, basements, attics, lofts, spaces above suspended ceilings, and other subdivisions and accessible spaces; and the inside of all closets, elevator shafts, enclosed stairways, dumbwaiter shafts, and chutes. Inaccessible areas shall not be required to be protected by detectors. (For exceptions, refer to NFPA 72.)

#### **Partial Coverage**

If required, partial detection systems shall be provided in all common areas and work spaces, such as corridors, lobbies, storage rooms, equipment rooms, and other tenant-less spaces in those environments suitable for proper detector operation in accordance with this code.

### Selective Coverage

Where codes, standards, laws, or authorities having jurisdiction require the protection of selected areas only, the specified areas shall be protected in accordance with this code.

#### Supplementary (Non required) Coverage

Where installed, detection that is not required by an applicable law, code, or standard, whether total (complete), partial, or selective coverage, shall conform to the requirements of this code. (For exceptions, refer to NFPA 72 Spacing Requirements.) Where non required detection devices are installed for a specific hazard, additional non required detection devices shall not be required to be installed throughout an entire room or building.

### **Heat-Sensing Fire Detectors**

Heat-sensing fire detectors shall be installed in all areas where required by the NFPA codes and standards or by the authority having jurisdiction.

### **Detection in New Apartment Buildings**

Approved, single-station smoke alarms shall be installed in accordance with 7-6.2.10 of NFPA 101 outside every sleeping area in the immediate vicinity of the bedrooms and on all levels of the dwelling unit including basements. (For exceptions, refer to this section of NFPA 72.)

### **Detection in Existing Apartment Buildings**

Approved, single-station smoke alarms shall be installed in accordance with 7-6.2.10 of NFPA 101 outside every sleeping area in the immediate vicinity of the bedrooms and on all levels of the dwelling unit including basements. (For exceptions, refer to this section of NFPA 72.)

### **WARNING! Limitation of Smoke Detectors**

Wireless smoke alarms are very reliable, but may not work under all conditions. No fire alarm provides total protection of life or property. Smoke alarms are not a substitute for life insurance.

Smoke alarms require a source of power to work. This smoke alarm will not operate and the alarm will not sound if the battery is dead or not installed properly.

Smoke alarms may not be heard. A sound sleeper or someone who has taken drugs or alcohol may not awaken if the alarm is installed outside a bedroom. Closed or partially closed doors and distance can block sound. This alarm is not designed for the hearing impaired.

Smoke alarms may not always activate and provide warning early enough. Smoke alarms only activate when enough smoke reaches the alarm. If a fire starts in a chimney, wall, roof, on the other side of closed doors, or on a different level of the property, enough smoke may not reach the alarm for it to alarm.

Smoke alarms are a significant help in reducing loss, injury, and even death. However, no matter how good a detection device is, nothing works perfectly under every circumstance and we must warn you that you cannot expect a smoke alarm to ensure that you will never suffer any damage or injury.

### **Fire Prevention and Escape**

The purpose of an early warning smoke alarm is to detect the presence of fire in its early stages and sound an alarm, giving the occupants time to exit the premises safely.

### **Avoid Fire Hazards**

- Do not smoke in bed.
- Do not leave children home alone.
- Never clean with flammable liquids such as gasoline.
- Properly store materials.
- Use general good housekeeping techniques to keep your home neat and tidy. A cluttered basement, attic, or other storage areas are an open invitation to fire.
- Use combustible materials and electrical appliances carefully and only for their intended uses.
- Do not overload electrical outlets.
- Do not store explosive and/or fast burning materials in your home.
- Even after proper precautions have been taken, fires can start. Be prepared.

Operation Modes				
Mode	Status LED (Top)	Side LED Windows	Sounder	Speaker
Power Up	Blink <b>GREEN</b> every 2 secs	Dark	Silent	Voice welcome, instructions after first time power-up or after default
Normal (Standby)	Single blink <b>GREEN</b> every 10 secs	Dark	Silent	Silent
Smoke Alarm	Blink <b>RED</b> every 10 secs	Blink Red	Temp-3	Voice smoke warning
Thermal Alarm	Blink <b>RED</b> every 10 secs	Blink Red	Temp-3	Voice Smoke warning
CO Alarm	Blink <b>RED</b> every 10 secs	Blink Blue	Temp-4	Voice CO warning
Powered Down	Dark	Dark	Silent	Silent

### **COMPLIANCE SPECIFICATIONS**

#### Specifications

Battery Life Expectancy	At least 1 year
Battery Type	4 x 3.0 V, CR123A Lithium; Panasonic CR123A only
Sensitivity	UL Limits .9 to 3.50%/ft; ULC Limits .9 to 3.08 %/ft
Audible Signal	85dBA
Frequency Range	905-924 MHz
Dimensions	16.002 cm Diameter x 4.19 cm Thick
	6.3 in Diameter x 1.65 in Thick
Tamper	Cover
Operating Temperature	32°F - 100°F; 0°C - 38°C
Storage Temperature	14°F - 158°F; -10°C - 70°C
Relative Humidity	20 - 95% RH (Agency Compliance is 93% max),
	Non-condensing
Color	White

#### Patents

U.S. Patent No. 7,239,236

#### Compatibility

1100D Series Wireless Receiver

1100X Series Wireless Receiver

XT30/XT50 Series Panels

XR150/XR550 Series Panels

XTLplus Series Panels

XTLtouch Series Panels

**Note**: Panels have to support the CO zone type to be compatible with the 1168.

#### Certifications

FCC Part 15 Registration ID CCKPC0204

IC Registration ID 5251A-PC0204

ANSI/UL 268 Smoke-Automatic Fire Detectors

ANSI/UL 2075 Gas and Vapor Detectors and Sensors

## **FCC INFORMATION**

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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



**Note**: 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:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

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### INDUSTRY CANADA INFORMATION

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.

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

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.

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.

Information furnished is believed to be accurate and reliable.

This information is subject to change without notice.

