LA CROSSE®
TECHNOLOGY

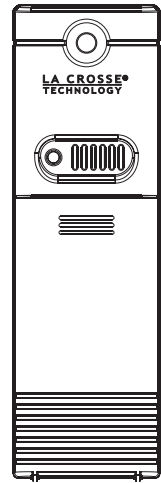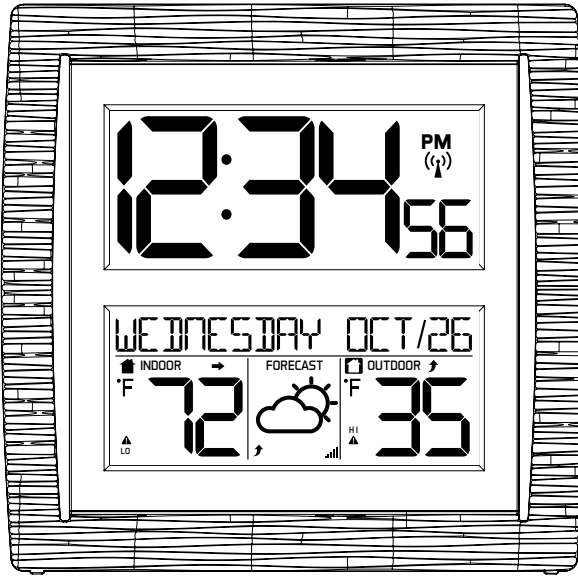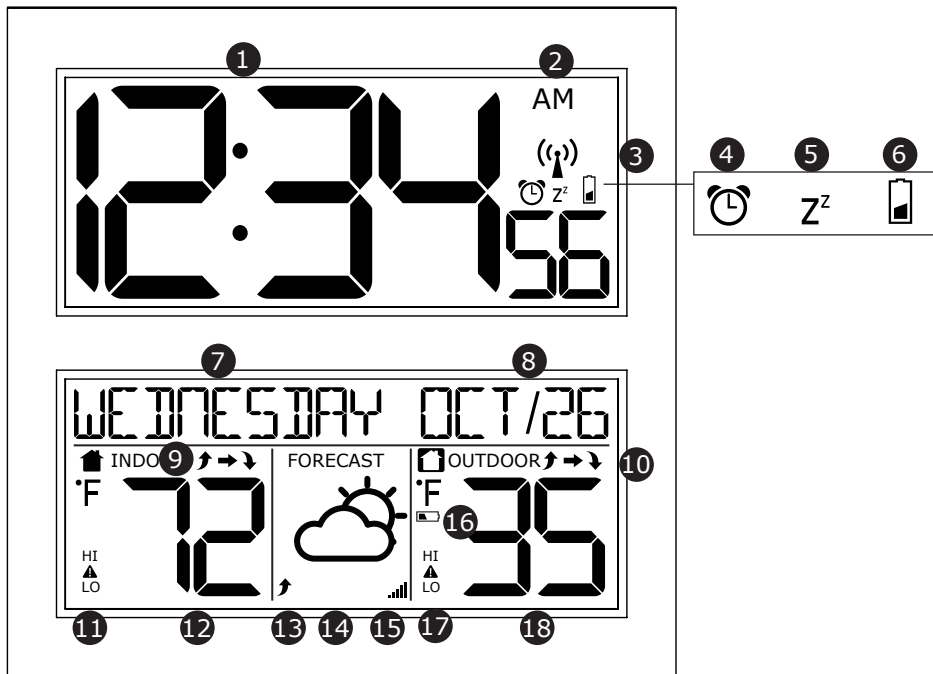## Atomic Clock and Weather Station

Table of Contents

Welcome!

Thank you for purchasing the Atomic Digital Clock with forecast, designed for years of trouble-free performance.

LCD Features

❶ Atomic Time	❿ Outdoor Temperature Trend
❷ AM/PM Indicator	⓫ Indoor HI/LO Alert Icons
❸ Atomic Signal Reception Tower	⓬ Indoor Temperature
❹ Alarm Icon	⓭ Forecast Trend
❺ Snooze Icon	⓮ Forecast (all icons shown)
❻ Low Battery Icon (Clock)	⓯ Sensor Reception Strength
❼ Weekday	⓰ Low Battery Icon (Sensor)
❽ Month/Date	⓱ Outdoor HI/LO Alert Icons
❾ Indoor Temperature Trend	⓲ Outdoor Temperature

Setup

1. Insert 2-AA batteries into the TX141-Bv2 temperature sensor according to polarity.

2. Insert 3-AA batteries into the clock.

3. After 5 minutes, place sensor in a shaded outdoor location.

4. Set time and date.
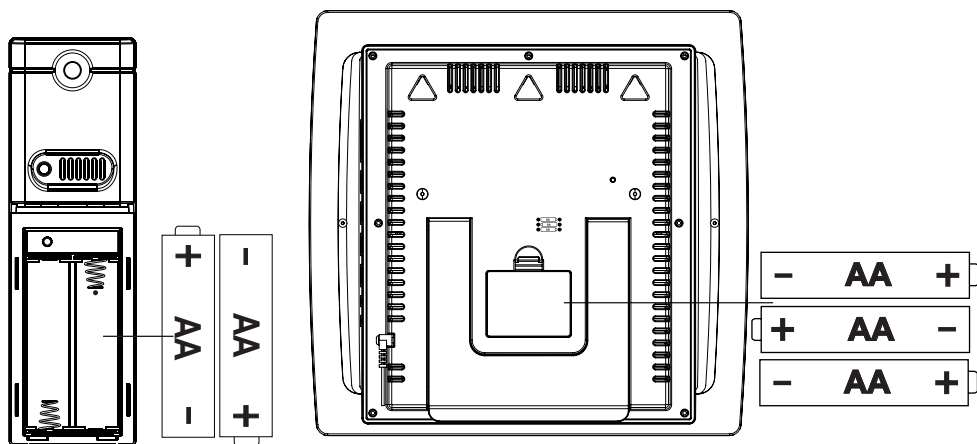
Atomic Time Signal

• Once batteries are installed, the clock will automatically search at UTC 7:00, 8:00, 9:00, 10:00, and 11:00.

• If there is no WWVB reception, the clock will search for the atomic time signal every 2 hours until the WWVB time is received.

• After reception, this clock will only search for the atomic signal after midnight.

• From normal time display, press and release the **SEARCH** button to search for the WWVB time signal.

• Please be sure you have selected your time zone from the list in the Settings menu. When the Atomic time signal is received, the clock will set to the time zone selected. Default is Eastern time.

• **For information about WWVB visit:**
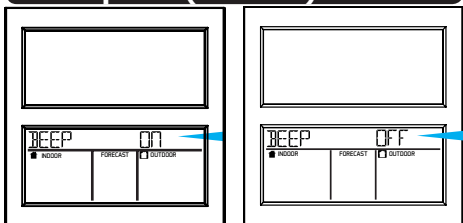 www.nist.gov/pml/div688/grp40/wwvb.cfm

Settings: Time, Date, etc.

• Hold the **SET** button to enter time set mode.
• Press the **+** or **-** buttons to adjust the values.
• Press the **SET** button to confirm adjustments
  and move to the next item.
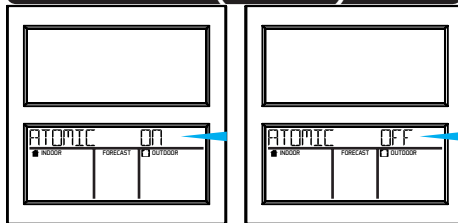• Press the **SNOOZE** button at any time to exit.

Time set order:
1. Beep ON/OFF
2. Atomic ON/OFF
3. Time Zone
4. DST ON/OFF
5. Hour
6. Minutes
7. Year
8. Month
9. Date
10. Fahrenheit/Celsius

Buttons on
side of clock

SNOOZE
ALARM
ALERTS
SEARCH
SET
+
–

• Hold the **SET** button for 3 seconds to begin:

1. Beep ON (default) or OFF

BEEP   ON
INDOOR   FORECAST   OUTDOOR

BEEP   OFF
INDOOR   FORECAST   OUTDOOR

2. Atomic ON (default) or OFF

ATOMIC   ON
INDOOR   FORECAST   OUTDOOR

ATOMIC   OFF
INDOOR   FORECAST   OUTDOOR
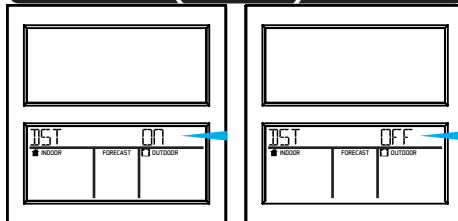
Note: If Atomic OFF is selected, you
        move directly to the hour.

3. Time Zone-EST (default)

TIME ZONE EST
INDOOR   FORECAST   OUTDOOR

AST   Atlantic
EST   Eastern
CST   Central
MST   Mountain
PST   Pacific
AKT   Alaskan
HAT   Hawaiian

4. DST ON (default) or OFF

DST   ON
INDOOR   FORECAST   OUTDOOR

DST   OFF
INDOOR   FORECAST   OUTDOOR

5. Hour	6. Minutes	7. Year

HOUR / 12 AM

MINUTES / :34 AM

YEAR 2016

8. Month	9. Date	10. Fahrenheit/Celsius

MONTH JAN/

DATE / 1
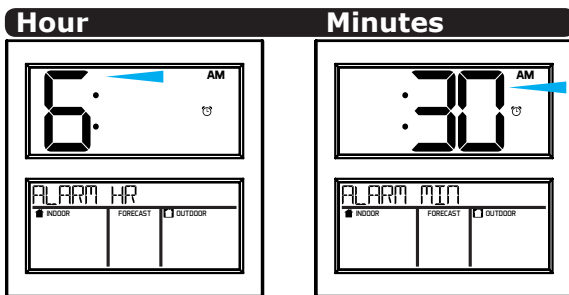
TEMP °F / °F

TEMP °C / °C
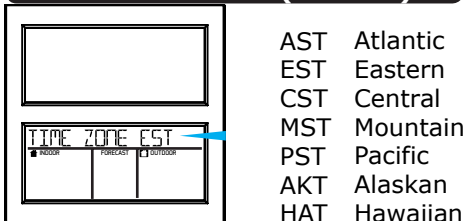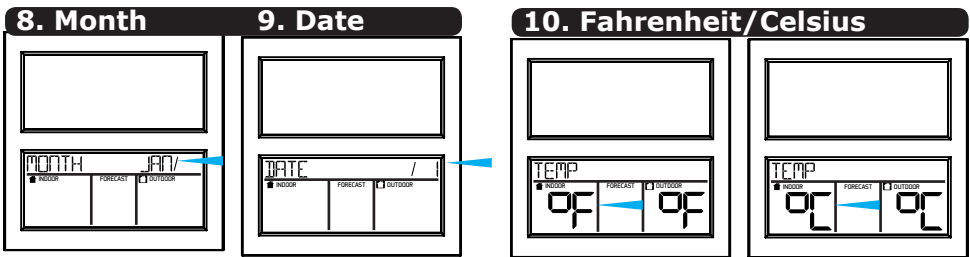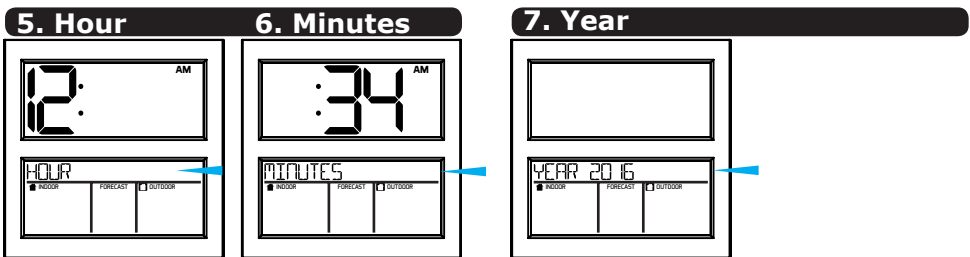
11. Press **SET** to confirm and exit.

Set Time Alarm

The alarm will be active when set.

1. Hold **ALARM** 3 seconds: Alarm Hour Use the +/- button to select.

2. Press **ALARM**: Alarm Minutes Use the +/- button to select.

Hour	Minutes

ALARM HR / 6 AM

ALARM MIN / :30 AM

Snooze

- When the alarm sounds, press the **SNOOZE** button to silence the alarm for 10 minutes.
- The snooze icon **Zz** will flash.
- Press any button except SNOOZE to silence the alarm for 24 hours.
- This is a crescendo alarm. It will sound for 2 minutes then shut off if no buttons are pressed.

Deactivate/Activate Alarm

- The alarm is active when set.
- From normal time display, press and release the **ALARM** button to deactivate or activate the alarm.
- The alarm icon (clock) will show when active.

Temperature Alerts

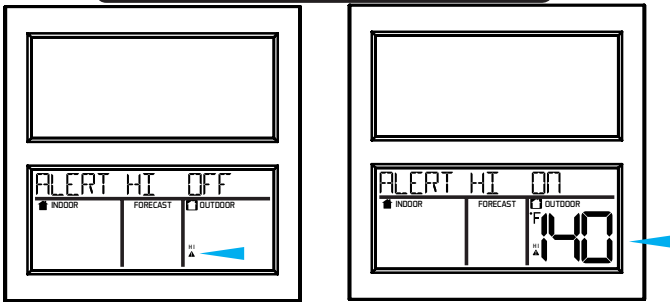This clock offers HI and LO indoor and outdoor temperature alerts.
- Outdoor HI
- Outdoor LO
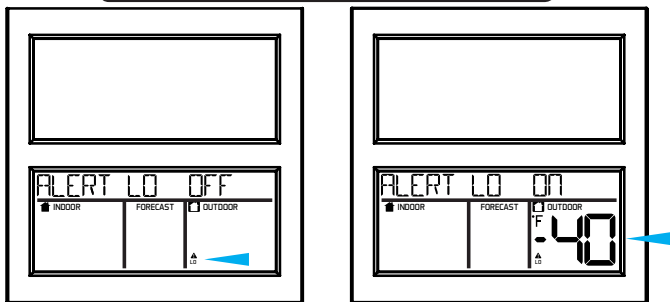- Indoor HI
- Indoor LO

HI
⚠
LO

Set Alerts:
1. Hold the **ALERT** button 3 seconds. Outdoor ALERTS HI OFF shows.
2. Press and release the **+/-** button to turn ON the alert.
3. Press the **ALERT** button again and the outdoor HI alert value will flash.
4. Press the **+/-** buttons to adjust the alert value.

Outdoor HI Alert

```
ALERT HI   OFF
 INDOOR    FORECAST   OUTDOOR
```

```
ALERT HI   ON
 INDOOR    FORECAST   OUTDOOR
                      °F
                      140
```
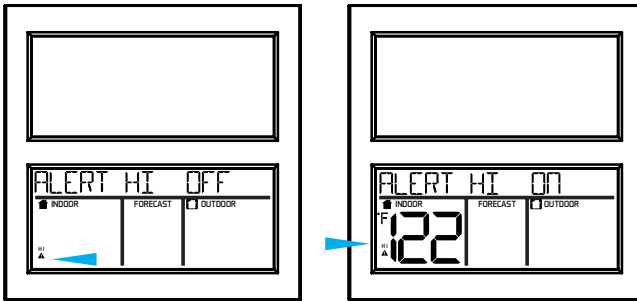
5. Press **ALERT**: Outdoor ALERTS LO OFF will show.
6. Press and release the **+/-** buttons to turn ON the alert.
7. Press **ALERT** again LO alert value will flash.
8. Press the **+/-** buttons to adjust the alert value.

Outdoor LO Alert

```
ALERT LO   OFF
 INDOOR    FORECAST   OUTDOOR
```

```
ALERT LO   ON
 INDOOR    FORECAST   OUTDOOR
                      °F
                      -40
```

9. Press **ALERT**: Indoor ALERTS HI OFF will show.
10. Press and release the **+/-** buttons to turn ON the alert.
11. Press **ALERT** again HI alert value will flash.
12. Press the **+/-** buttons to adjust the alert value.

Indoor HI Alert

13. Press **ALERT**: Indoor ALERTS LO OFF will show.
14. Press and release the **+/-** buttons to turn ON the alert.
15. Press **ALERT** again LO alert value will flash.
16. Press the **+/-** buttons to adjust the alert value.
17. Press **ALERT** to confirm and exit.

Indoor LO Alert
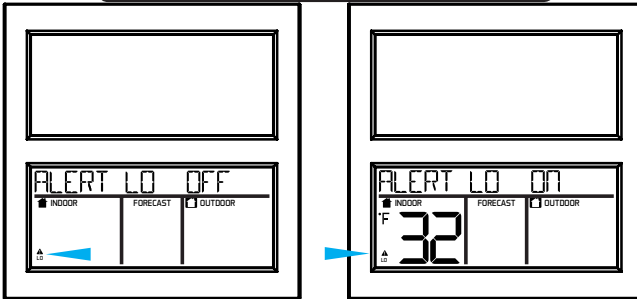
Note: If OFF is selected for the alert, you will skip the alert value and move to the next alert ON/OFF setting. Press SNOOZE at anytime to exit.

Temperature Alert Sounds

● When armed alert value is reached, station will beep 5 times once per minute.
● The flashing alert icon will indicate if is a LOW or HI alert.
● Press any button to stop the temp alert sound. The alert icon flash while value is in alert range.

Sensor Reception

- Hold the **SEARCH** button 3 seconds to search for the sensor.
- The strength signal icon will flash until the sensor signal is received or for 3 minutes if no signal available.

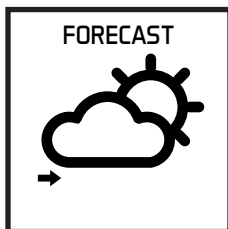# Weather Forecast Icons

Intelligent Weather Forecast:

This station learns. Please allow 7 days for barometric calibration. This will ensure an accurate personal forecast for your location.
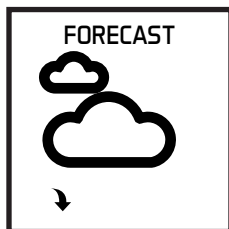
Six forecast icons use changing atmospheric pressure to predict weather conditions for the next 12-hours with 70-75% accuracy.
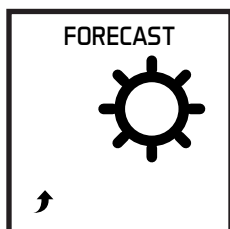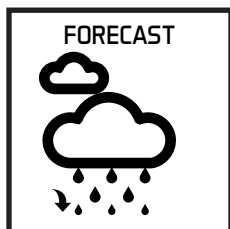
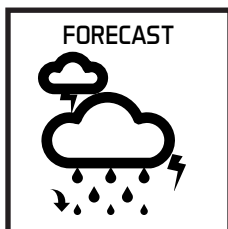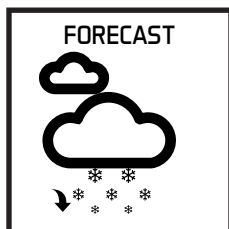| FORECAST	FORECAST	FORECAST
SUNNY	PARTLY SUNNY	CLOUDY
FORECAST	FORECAST	FORECAST
RAINY	STORMY	SNOWY

Note: The snowy icon will appear in place of rainy and stormy icons when the outdoor temperature is below 32°F.

Forecast Tendency Arrows

The forecast trend indicators update every 30 minutes. The trend reflects changes in pressure (1 hPa) over the past 3 hours.
E.G.: At 3:00 — compares to 12:00 data; at 3:30 — compares to 12:30.
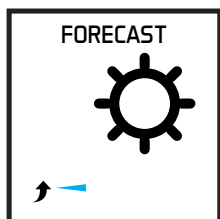
| FORECAST		
	Pressure is rising, weather expected to improve
	Pressure is unchanged
	Pressure is falling, weather expected to worsen

HI/LO Indoor and Outdoor Temperatures

The clock saves the HI and LO temperature readings and automatically resets all records at midnight.

HI: Press and release the **+** button to view indoor high than outdoor high temperatures since midnight.
LO: Press and release the **-** button to view indoor low than outdoor low temperatures since midnight.

Indoor HI	*Outdoor HI*	*Indoor LO*	*Outdoor LO*
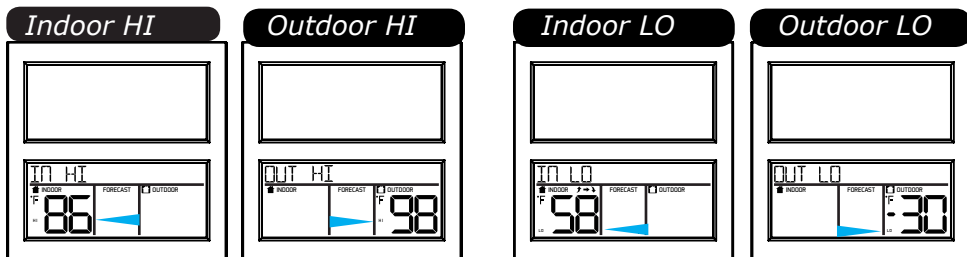
Temperature Trend Arrows

The temperature (2°F/1°C) trend indicators update every 30 minutes or less.

Compares the last 3 hours and changes on every ½ hour:
E.g. : At 3:00 - compare to 12:00 data; at 3:30 -compare to 12:30 ….. etc.

Temperature rose over the past 3 hours	Temperature is unchanged over the past 3 hours	Temperature fell over the past 3 hours

Low Battery Icons

- Low battery icon near outdoor temperature, change batteries in the outdoor sensor.
- Low battery icon near indoor temperature, change batteries in the clock.

Position Clock

The clock has a pullout stand sit on a desk or table, or a hanging hook to mount on the wall.
- For best Atomic time reception, orientate the clock with the front or the back facing Ft. Collins, Colorado.
- Choose a location 6 feet or more from electronics such as cordless phones, gaming systems, televisions, microwaves, routers, etc.
- Place within range of the outdoor sensor (300 feet open air).

Mount Temperature Sensor

Option 1:
● Install one mounting screw into a wall leaving some extended.
● Place the transmitter onto the screw, gently pull the transmitter down to lock the screw into place.

Option 2:
● Insert the mounting screw through the front of the sensor and into the wall.

● Tighten the screw to snug (do not over tighten).

● Mount the sensor on a north-facing wall or in any well shaded location. Sun will make it read high.

● Under an eave or deck rail is preferred.

● Be sure the outdoor sensor is mounted vertically to drain moisture.

● The maximum wireless transmission range is over 300 feet (91 meters) in open air, not including walls or floors.
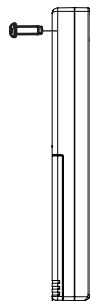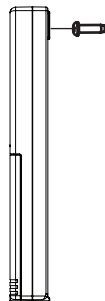
Care and Maintenance

• Do not mix old and new batteries

• Do not mix Alkaline, Standard, Lithium or Rechargeable Batteries

• Always purchase the correct size and grade of battery most suitable for intended use.

• Replace all batteries of a set at the same time.

• Clean the battery contacts and also those of the device prior to battery installation.

• Ensure the batteries are installed with correct polarity (+ and -).

• Remove batteries from equipment which is not to be used for an extended period of time.

• Promptly remove expired batteries.

Specifications

Indoor Temp Range: 32°F to 122°F (0°C to 50°C)

Outdoor Temp Range: -40°F to 140°F (-40°C to 60°C)
Distance: Over 300 ft. (91 meters) RF 433MHz (open air)

Clock: 3-AA, IEC, LR6 batteries (not included)
Power TX141-Bv2: 2-AA, IEC, LR6 batteries (not included)

Clock: Over 12 months with reputable batteries
Battery life TX141-Bv2: over 12 months with reputable batteries

Clock: 12.19" W x 1.59" D x 11.80" H
        (309.6 W x 40.4 D x 299.8 H mm)
Dimensions TX141-Bv2: 1.57"W x 0.82" D x 5.11" H
                          (40 W x 20.8 D x 129.7H mm)

Warranty and Support

La Crosse Technology, Ltd. provides a 1-year limited time warranty (from date of purchase) on this product relating to manufacturing defects in materials & workmanship.

Before returning a product, please contact our friendly customer support with questions or visit our online help:
Phone: 1-608-782-1610

Online Product Support:
www.lacrossetechnology.com/support

Product Registration:
www.lacrossetechnology.com/support/register

View full warranty details online at:
www.lacrossetechnology.com/warranty_info.pdf

Warranty Address:
La Crosse Technology, Ltd
2830 S. 26th St.
La Crosse, WI 54601

Protected under U.S. Patents: 5,978,738 | 6,076,044 | RE43903

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 or more 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.

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

Caution!
The manufacturer is not responsible for any radio or TV interference caused by unauthorized changes or modifications to this equipment. Such changes or modifications could void the user authority to operate the equipment.

Canada Statement

This device complies with CNR Industry Canada license -exempt devices. 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.