# LA CROSSE® TECHNOLOGY

### Atomic Projection Alarm Model: K86326

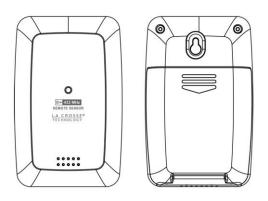
#### **INTRODUCTION:**

The Atomic Projection Alarm features radio-controlled time, indoor and outdoor temperature on a stylish, colorful, and easy to read display. Time and/or outdoor temperature can be projected on a wall or ceiling.

#### **ATOMIC PROJECTION ALARM**



#### **OUTDOOR TEMPERATURE/HUMIDITY TRANSMITTER: TX14**



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#### **FEATURES:**

- Projects time and outdoor temperature
  - o Toggles time and outdoor temperature
  - Display time only
  - Display outdoor temperature only
  - ( Default----Toggles time and outdoor temperature )
- Projection rotate with 90 degree increments
- Atomic Clock: 7 Time-zones: ( AST, EST, CST, MST, PST, AKT, HAT )
- Calendar (Month/date,2000-2099 Default Year 2010)
- Time (hour/minute)
- Indoor Temperature
- Wireless Outdoor Temperature
- Indoor/outdoor temp with trend arrow
- C/F selectable
- Time alarm with snooze function
- Low Battery indicator
- Atomic display
- High/Low/Off backlight and projection controlled
- Sits on desktop or tabletop
- 2 "AA" Alkaline batteries (not included) OR optional 5.0V AC adapter (included)

#### **INITIAL SET UP:**

- Insert A/C adapter into the wall outlet then into the display or insert 2 AA batteries (not included) into the display (see Power the Atomic Projection Alarm). The Atomic Projection Alarm will light up and display time and indoor temperature.
- 2. Insert 2 fresh AA batteries into the transmitter, observing the correct polarity (see Install Batteries in the Outdoor Transmitter).
- 3. Keep the transmitter 5-10 feet from the Atomic Projection Alarm for 15 minutes to establish a good connection.
- 4. Within 3 minutes the outdoor temperature should be displayed on the Atomic Projection Alarm. If the outdoor temperature is not displayed after 3 minutes remove power from the transmitter and the display for 60 seconds and start again from step 1.
- 5. For optimum 433 MHz transmission, the outdoor transmitter should be placed a distance of no more than 200 feet (60 meters, open air) from the Atomic Projection Alarm.

**IMPORTANT:** When operating on a/c power, the **backlight/projection** will turn off for 2 to 10 minutes while the Atomic Projection Alarm searches for the WWVB signal, to avoid interference. The backlight and projection will resume after the 2-10 minute search.

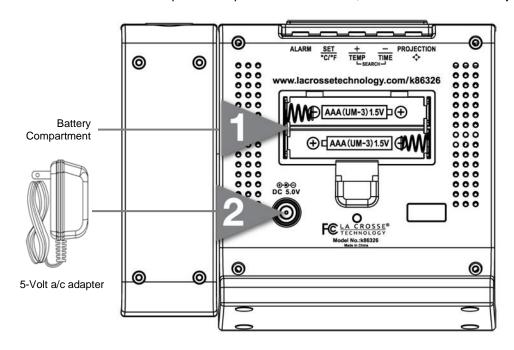
- Do Not Mix Old and New Batteries
- Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries

#### POWER THE ATOMIC PROJECTION ALARM:

The Projection Alarm can be powered by the 5-volt a/c adapter or by 2 AA batteries.

#### A/C power adapter:

• Insert enclosed 5-volt a/c power adapter into a wall outlet, then into the Atomic Projection Alarm.

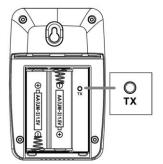


#### **Batteries:**

- 1. Remove battery cover: Slide tab to the right and pull out to remove battery cover.
- 2. Install two fresh AA batteries according to the polarity markings.
- Do Not Mix Old and New Batteries
- Do Not Mix Alkaline, Lithium, Standard, or Rechargeable Batteries

If the Atomic Projection Alarm does not display indoor temperature after 60 seconds, remove adapter and batteries, and wait for at least 60 seconds before repeating the setup process.

#### **INSTALL BATTERIES IN THE OUTDOOR TRANSMITTER:**



- 1. Slide the battery cover down, then lift off the back of the transmitter.

  Note: Be careful not to break the tabs on the battery cover.
- 2. Insert two fresh AA batteries into the transmitter. Observe the correct polarity (see marking inside battery compartment).
- 3. Keep transmitter 5-10 ft. from the Atomic Projection Alarm during setup.
- 4. After 15 minutes, if the outdoor temperature shows on the display, you can move the outdoor transmitter outside to a shaded location within range of the Atomic Projection Alarm.

#### TROUBLESHOOTING:

- If the Projection Alarm does not display the outdoor temperature after 3 minutes, remove the a/c power adapter and all batteries from both units and start the setup process again.
- If the outdoor temperature does not show up after a second attempt, please slide open the battery cover of the outdoor transmitter to reveal the TX button push down on the TX button for 3 seconds to send a wireless signal to the Projection Alarm.
- Hold the +/TEMP button for 5 seconds so the clock will search for the sensor.
- For optimal 433 MHz signal reception, the outdoor transmitter should be placed within 200 feet (60 meters) from the indoor Projection Alarm.

#### WWVB RADIO CONTROLLED TIME

The NIST radio station, WWVB, is located in Ft. Collins, Colorado and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Atomic Projection Alarm. However, due to the nature of the Earth's lonosphere, reception is very limited during daylight hours. The Atomic Projection Alarm will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic Clock in Boulder, Colorado. A team of atomic physicists continually measures every second of every day to an accuracy of ten billionths of a second a day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium 133 atom in a vacuum. This atomic clock regulates the WWVB transmitter.



**WWVB RECEPTION ICON** with full signal strength will appear on screen in front of the date when the reception of atomic time is successful.

- The tower icon will show solid when the display has received the WWVB signal.
- No tower icon displayed. The display was unable to receive a signal at this time.
- Reposition the display for better signal reception or try again at bedtime.
- The display will start searching at UTC: 07:00 and if no reception on the first attempt they will try again at 08:00, 09:00 and 10:00. Each attempt will be at least 2 minutes and the most will be 10 minutes.
- If there is no signal or too much interference the receiver will only be on for 2 minutes.
- If the signal is good it may catch a signal in ABOUT 2-3 minutes.
- If the signal is marginal it will try to catch a signal for up to 10 minutes.

  IMPORTANT: When operating on a/c power, the backlight will turn off while the Display searches for the WWVB signal, to avoid interference. The backlight will return after the 2-10 minute search which occurs during the late night or early morning hours.

**Note:** In case the Atomic Projection Alarm is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.); the time may be manually set.

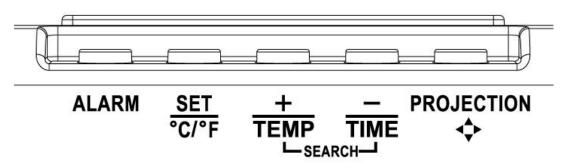
**Manual Signal Search:** In normal mode, hold the RCC button until the reception icon appears to force a search of the WWVB signal. The WWVB icon <sup>©</sup> will flash during the search. If this icon disappears after the 2-minute search, the radio time signal is not available at the moment.

- Recommended distance to any interfering sources like computer monitors or TV sets is a minimum of 6 feet (2 meters).
- Within ferro-concrete rooms (basements, superstructures), the received signal is naturally weakened.
   In extreme cases, please place the unit close to a window and/ or point its front or back towards the Fort Collins, Colorado, transmitter.
- During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy deviation below 1 second.

**Note:** In case the atomic Projection Alarm is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.), the time and date can be manually set (see "**program menu**").

#### **FUNCTION BUTTONS:**

#### SNOOZE/LIGHT/HI/LOW/OFF (TOP)



Button	Press and Release Functions	Hold 2 seconds
SET/°C/°F	Move through program menu (setup) Select temperature in °C/°F	Enter program menu, set time, date, etc. (setup)
ALARM	Once: View Alarm Twice: Activate or Deactivate Alarm	Alarm set
+/TEMP	1 step forward (setup)	Search for Sensor Fast advance (setup)
-/TIME	1 step backward (setup)	Fast backward ( setup) WWVB Search
PROJECTION	Rotate Projection 90 degrees	Change what is projected: Time/Outdoor Temp alternating (default) Once: Time only Twice: Outdoor Temp only Third time: Time/Outdoor Temp alternating (default)
SNOOZE/LIGHT HI/LOW/OFF	Once: Backlight and Projection low intensity (a/c) Twice: Backlight and Projection OFF (a/c) Third time: Backlight and projection ON high intensity (default, a/c adapter) Battery Power: Activate backlight for 10 seconds Trigger snooze alarm (ringing)	

#### **PROGRAM MENU:**

The **SET** button will moves through the items in the program menu. The +/TEMP or -/TIME buttons will change these values.

- · WWVB reception ON or OFF
- Time Zone (Seven Time Zones)
- Daylight Saving Indicator
- 12/24 hour time format
- Manual time set (Hour, Minutes)
- Calendar set (Year, Month, Date)

#### **WWVB RECEPTION:**

The WWVB time reception defaults to ON. To turn the WWVB reception OFF:

- 1. Hold the SET button for 5 seconds.
- 2. WWVB and ON will flash.
- 3. Press and release the +/TEMP or -/TIME buttons to turn this OFF.
- 4. Confirm with the SET button and move to the **Time Zone**.

#### TIME ZONE:

This station offers seven time zones listed in letter format (default is EST):

- AST Atlantic Time
- EST Eastern Time
- CST Central Time
- MST Mountain Time
- PST Pacific Time
- AKT Alaskan Time
- HAT Hawaiian Time
- 1. **EST** will flash.
- 2. Press and release the +/TEMP or -/TIME buttons to select a different Time Zone.
- 3. Confirm with the SET button and move to **Daylight Saving Indicator**.



**WWVB** 





#### **DAYLIGHT SAVING INDICATOR:**

DST will default to the ON position as most of the country observes the DST change. If you live in an area does not observe the DST change, switch this to the OFF position.

- 1. **DST** and **ON** will flash.
- 2. Press and release the +/TEMP or -/TIME buttons to turn DST to OFF.
- 3. Confirm with the SET button and move to 12/24 hour time format.



#### 12 OR 24 HOUR TIME FORMAT:

The Time may be displayed in 12-hour or 24-hour format. Default is 12-hour time. **Note**: When in 12-hour format AM or PM will show in front of the hour.

- 1. 12H will flash.
- 2. Press and release the +/TEMP or -/TIME buttons to select 24-hour time.
- 3. Confirm with the SET button and move to **Set Time**.



#### **SET TIME:**

To set the time manually:

- 1. The **hour** digit will flash.
- 2. Press and release the +/TEMP or -/TIME buttons to select the hour.
- 3. Press and release the **SET** button to set the **minutes**.
- 4. The **minute's** digit will flash.
- Press and release the +/TEMP or -/TIME buttons to select the minutes.
- 6. Confirm with the SET button and move to Set Calendar.



#### **SET CALENDAR:**

The date default of the Atomic Projection Alarm is 1. 1. 2010. To set the calendar:



- 1. The **year** will flash.
- 2. Press and release the +/TEMP or -/TIME buttons to set the year (between year 2010-2039).
- 3. Press the **SET** button again to confirm and to enter the **month** setting.
- 4. The month will flash.
- 5. Press and release the Press and release the +/TEMP or -/TIME buttons to set the month.
- 6. Press the **SET** button again to confirm and enter **date** setting.
- 7. The date will flash.
- 8. Press and release the +/TEMP or -/TIME buttons to set the date.
- 9. Confirm all calendar settings with the **SET** button to confirm and **exit** the program menu.



2010

Note: The day of the week will set automatically once the year, month and date are set.

#### **FAHRENHEIT/CELSIUS:**

1. Press and release the **SET/°C/°F** button once to switch from Fahrenheit to Celsius.



#### ALARM SET:

Hold the ALARM button for 5 seconds to enter the alarm time set mode.

- 1. The alarm hour digit will flash.
- 2. Press and release the +/TEMP or -/TIME buttons to select the hour.
- 3. Press and release the **SET** button to set the minutes. The **minute** digits will flash.
- 4. Press and release the +/TEMP or -/TIME buttons to select the minutes.
- 5. Confirm with the SET button and exit.
- 6. The alarm icon 4 will show after the minutes indicating the alarm is **active**.
- 7. The alarm icon 👶 will flash when the alarm is sounding.

## PM ZZ S (Gg WWVB TIME

#### **DEACTIVATE ALARM:**

- 1. Press and release the ALARM button once to show Alarm Time.
- 2. Press and release the ALARM button to **deactivate** the Alarm. The \( \beta \) alarm icon will disappear indicating the alarm is no longer active.

#### SNOOZE:

- 1. When the alarm sounds, press the SNOOZE/LIGHT button to trigger snooze alarm for 10 minutes. The snooze icon **Zz** will flash when the snooze feature is active.
- 2. To stop alarm for one day, press ALARM button, while in snooze mode. The alarm icon \$\hat{\text{\$\left}}\$ will remain solid.

**Note:** When the alarm sounds, it continues for 2 minutes and then shuts off completely.

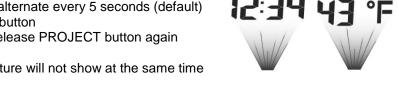
**BACKLIGHT AND PROJECTION INTENSITY**: Hold two seconds, and then release the SNOOZE/LIGHT button to adjust the brightness of the backlight and projection (together):

- ON High intensity: (default setting on a/c power)
- ON Low intensity: Hold and release SNOOZE/LIGHT button once
- **OFF**: Hold and release SNOOZE/LIGHT button
- ON High intensity (default): Hold and release SNOOZE/LIGHT button

#### **PROJECTION:**

- Battery Power: Press and release the SNOOZE/LIGHT button to show the projection for 10 seconds.
- **Note:** Projection will not display constantly when operating on battery power.
- A/C Power: Projection is displayed constantly
- Note: can be turned off see "Backlight and Projection Intensity"
- Rotate Projection: Press and release the PROJECT button to rotate projection image 90 degrees on the wall or ceiling. Press and release the PROJECT button again to rotate another 90 degrees.
- Change Projection Mode: Hold two seconds, and then release the PROJECT button to switch projection modes. You will need to watch the projection image to view the changes.
  - o Time and Outdoor Temperature: alternate every 5 seconds (default)
  - o Time: Hold and release PROJECT button
  - o Outdoor Temperature: Hold and release PROJECT button again

Note: Both Time and Outdoor Temperature will not show at the same time





**Projection Arm Rotation:** The projection arm can be rotated 180 degrees to view the projection on the wall or ceiling.

#### 

The indoor and outdoor temperature trend indicators are updated every 30 minutes. These trends represent temperature changes over the past three hours.

- Temperature rising more than 2°F /1°C in the past three hours
- Temperature has **not changed** more than 2°F /1°C in the past three hours
- Temperature falling more than 2°F /1°C in the past three hours

The temperature trend indicators are shown next to the indoor temperature and outdoor temperature readings.

#### **OUTDOOR TEMPERATURE FLASHING:**

- Low battery icon present: Change batteries in the transmitter, and then hold the CH button until the station beeps to search for the outdoor transmitter again.
- End of Transmission Range: Move the transmitter closer to the display. Avoid obstructions in the signal path. Keep transmitter and display away from electronics.

#### LOW BATTERY ICON:

- When this icon appears in the indoor (IN) data reading section, replace the batteries in the Projection Alarm.
- When this icon appears in the outdoor (OUT) data readings section, replace the batteries in the outdoor transmitter.

#### **OTHER DISPLAY ICONS:**



- WWVB Reception icon The tower icon will show solid when the display has received the WWVB signal.
  - No tower icon displayed. The display was unable to receive a signal at this time.
  - Reposition the display for better signal reception or try again at bedtime.



#### **Indoor Temperature**

#### Zz - Snooze icon

- Will flash when snooze feature has been activated
- Solid when alarm is on
- Does not display when alarm is deactivated.



#### Alarm icon

- Shows when time alarm is on
- Does not display when time alarm is deactivated

#### POSITION THE OUTDOOR TRANSMITTER:

The remote temperature transmitter should be mounted vertically to avoid damage.



#### WALL MOUNT

- 1. Choose a location for the transmitter that is within range of the Atomic Projection Alarm and under an overhang for accuracy.
- 2. Install one mounting screw (not included) into a wall leaving approximately ½ inch (12.7mm) extended..
- 3. Place the transmitter onto the screw, using the hanging hole on the backside.
- 4. Gently pull the transmitter down to lock the screw into place.

NOTE: Always ensure that the transmitter locks onto the screw before releasing.

To achieve a true temperature/humidity reading, mount where direct sunlight cannot reach the outdoor transmitter. Mount the outdoor transmitter on a North-facing wall or in any well shaded area. Under an eave or deck rail work well. The maximum transmitting range in open air is 200-feet (60 meters). Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range. Place the transmitter at least 6 feet in the air to improve signal transmission.

Place both units in their desired location, and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception. The outdoor temperature/humidity transmitter is water resistant, not waterproof and should not be placed anywhere it will become submerged in water or subject to standing water or snow.

#### **POSITION THE DISPLAY:**

- 1. The Atomic Projection Alarm has a wide base to sit on a desk or table.
- 2. Choose a location 6 feet or more from electronics such as cordless phones, gaming systems, televisions, microwaves, routers etc.
- 3. Place within range of the outdoor transmitter.
- 4. The maximum transmitting range in open air is 200-feet (60 meters). Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
- For best WWVB reception orientate the Atomic Projection Alarm with the front of the back facing Ft. Collins Atomicado.

#### **CARE AND MAINTENANCE:**

- Do Not Mix Old and New Batteries
- Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries
- Do not expose the Atomic Projection Alarm to extreme temperatures, vibration or shock.
- Keep Atomic Projection Alarm dry.
- Clean the Atomic Projection Alarm with a soft damp cloth. Do not use solvents or scouring agents.
- The Atomic Projection Alarm is not a toy. Keep it out of reach of children.
- The Atomic Projection Alarm is not to be used for medical purpose or for public information, but is determined for home use only.
- The specifications of this Atomic Projection Alarm may change without prior notice.
- Improper use or unauthorized opening of housing will void the warranty.
- If the unit does not work properly, change the batteries and/or check the a/c cord connection.

#### **SPECIFICATIONS:**

Indoor:

Temperature Range: +32°F to +122°F (0°C to 50°C)
Accuracy: +/- 2 degrees Fahrenheit
Interval: About every 30 seconds

Outdoor:

Temperature Range: -40°F to 140°F (-40°C to 60°C)

Alkaline Batteries: -20°F to 140°F (-28.8°C to 60°C) Lithium Batteries: -40°F to 140°F (-40°C to 60°C)

Temperatures below - 20°F (-28.8°C) require Lithium batteries in the

outdoor sensor.

Distance: 200 ft. (60 meters) RF 433MHz (open air)

Interval: About every 50 seconds

Power:

Atomic Projection Alarm: 5-volt a/c power adapter (included)

Optional 2-AAA, IEC, LR3 batteries (not included)

TX14 Transmitter: 2-AA, IEC, LR6 batteries (not included)

Battery Life: TX14 Transmitter

Battery Life: Battery life is over 24 months when using reputable battery brands for

both Alkaline and Lithium batteries

Atomic Projection Alarm

Battery Backup: Battery life is over 24 months when using the AC adapter for primary

power

**Dimensions:** 

Atomic Projection Alarm: 5.23" W x 4.33" H x 1.96" D (133 x 110 x 50mm) TX14 Transmitter: 3.98" H x 2.52" W x 1.42" D (101 x 64 x 37mm)

#### **ACCURACY:**

#### **Indoor Temperature:**

Operating temperature range = 32 F to 122 F (0C to 50C)

Accuracy ± 2 degrees Fahrenheit 32 F to 122 F (0C to 50C)

• Resolution = 0.1 degree F

 When above 122 F (50C) the temperature sensor should continue to read the correct temperature as long as the LCD display continues to function

 When below 32 F (0C) the temperature sensor should continue to read correctly as long as the LCD display continues to function.

#### **Outdoor Temperature:**

- Operating temperature range = -40 F to 140F (-40C to 60C)
- Accuracy ± 2 degrees Fahrenheit 32 F to 122 F (0C to 50C)
- Accuracy ±4 degrees Fahrenheit ( -40 F to32 F (-40C to 0C) ; 122 F to140 F (50C to 60C) )
- Resolution = 0.1 degree F
- When above 140 F (60C) the temperature sensor should continue to read the correct temperature as long as the LCD display continues to function
- When below -40F (-40C) the temperature sensor should transmit continue to read correctly

#### **WARRANTY INFORMATION:**

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting the La Crosse

Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only.

The La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in the owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Printed in China Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to the State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

#### For warranty work, technical support, or information contact:

La Crosse Technology, Ltd 2817 Losey Blvd. S. La Crosse, WI 54601

The complete instruction manual is available at: www.lacrossetechnology.com/k86326



Contact Support: 1-608-782-1610

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

Protected under U.S. Patents: 5,978,738 6,076,044 6,597,990

#### **FCC DISCLAIMER:**

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) the device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

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