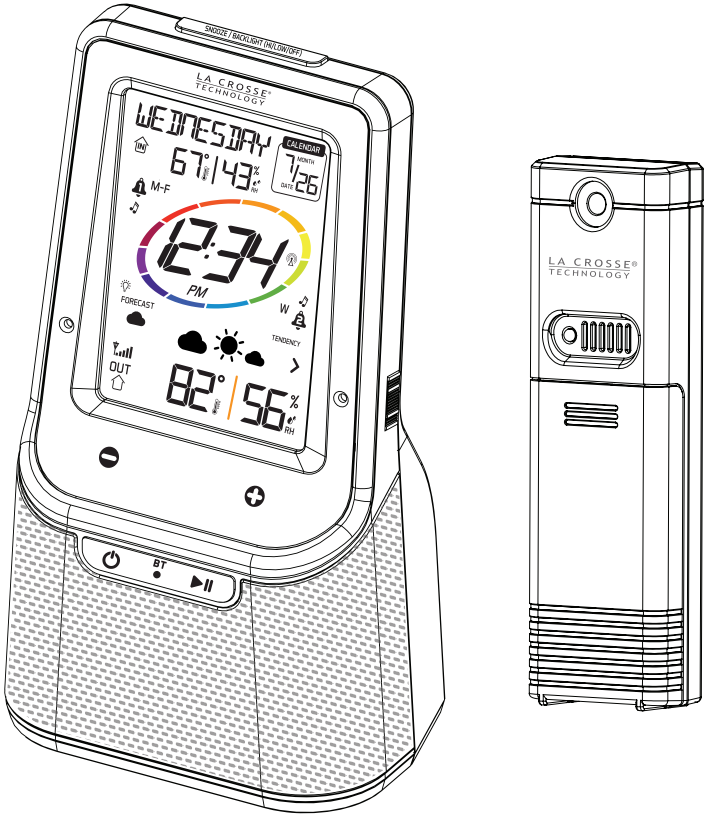
LA CROSSE®
TECHNOLOGY

Model: S87078
Instructional Manual
DC: 062915

Wireless Weather Station with Bluetooth Speaker and Atomic Time & Date



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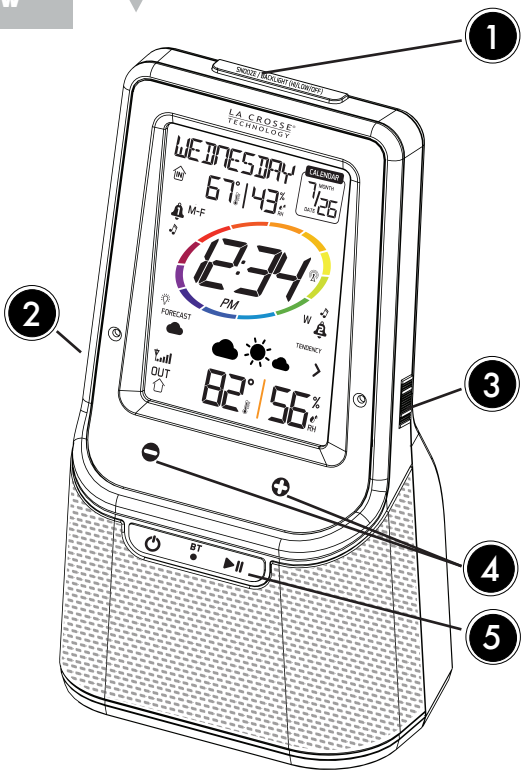
Button Location

1. Front View



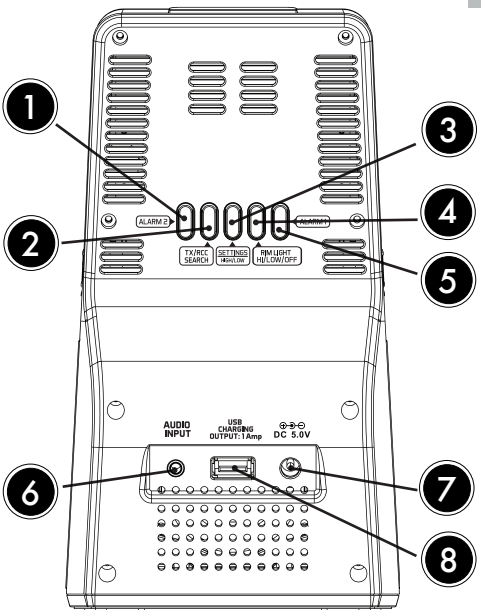
Front Buttons

① **Snooze/Backlight**
② **Alarm 1 On/Off**
③ **Alarm 2 On/Off**
④ **Volume Buttons**
⑤ **Front Buttons**
- Bluetooth Power
- Play/Pause

Back View

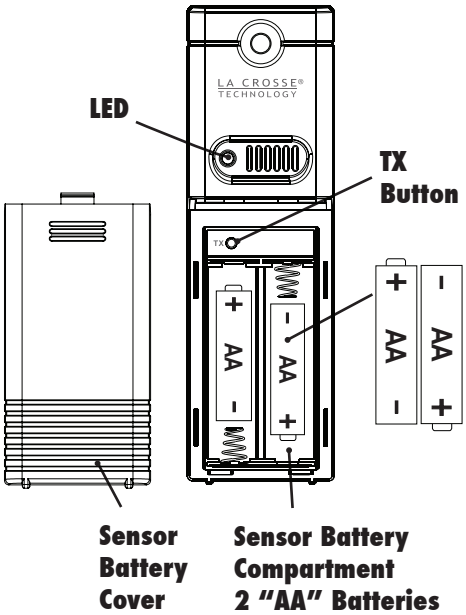
Back Buttons

① **Alarm 2**
② **TX/RCC Search**
③ **Settings**
④ **Rim Light On/Off**
⑤ **Alarm 1**

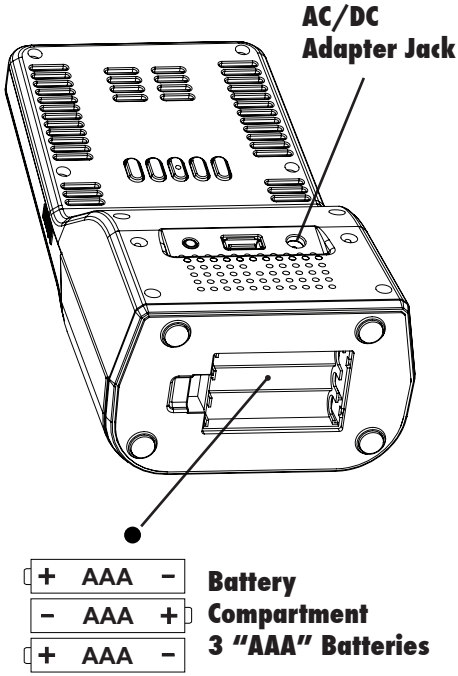


⑥ **Audio Input**
⑦ **AC/DC Adapter Jack**
⑧ **USB Charging Port 1 Amp Output**

Outdoor Sensor
TX141TH-BV2



Bottom View



Initial Setup

Step 1: Insert the 5 volt AC adapter (included) into the wall outlet then into the weather station.

Step 2 (optional): Insert 3 new "AAA" Alkaline batteries (not included) into the weather station to maintain time during power loss.

Note: Check that battery polarity is correct.

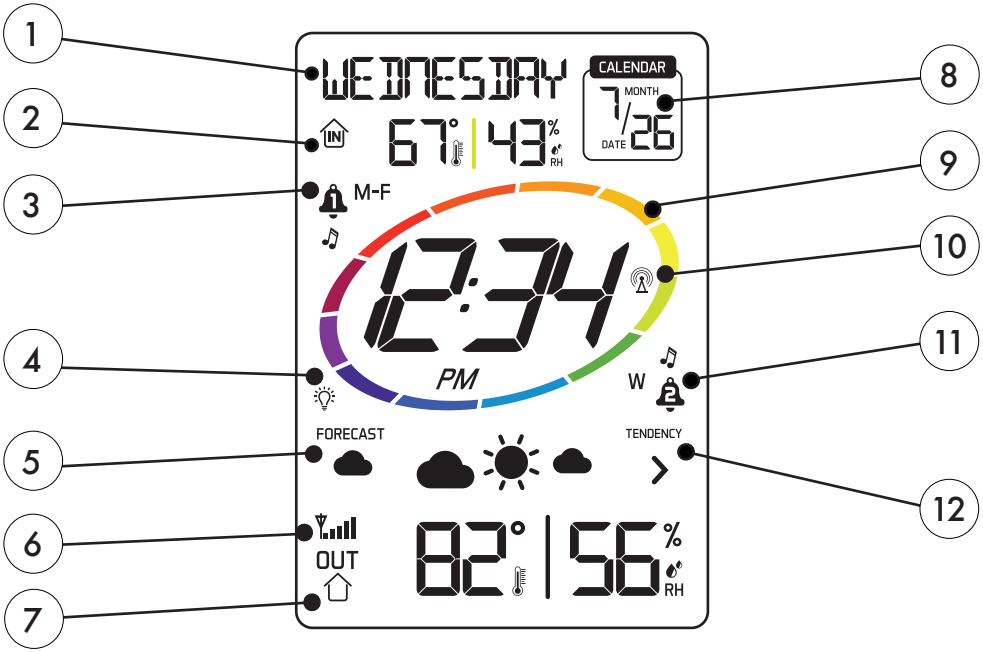
Step 3: Insert 2 new "AA" batteries (not included) into the TX141TH-BV2 outdoor sensor. The red LED will flash during transmission.

Note: Check that battery polarity is correct.

Step 4: After 5 minutes, place the sensor outside.

If the outdoor temp is not displayed after three minutes, press and release the **TX/RCC button** to search for sensor. Press the TX button on the sensor to send a signal.

LCD Layout



1 WEDNESDAY Day of the week	2 IN Indoor Temperature + Humidity	3 M F Alarm 1 Icons	4 Rim Light Indicator
5 Forecast Icons	6 Outdoor Sensor Signal Strength	7 OUT Outdoor Temperature + Humidity	8 CALENDAR MONTH 7/26 DATE Calendar Month/Date
9 Animated Color Circle	10 Atomic Time Icons Shows when signal is received	11 W Alarm 2 Icons	12 TENDENCY Forecast Tendency

Bluetooth 2.1 Operation

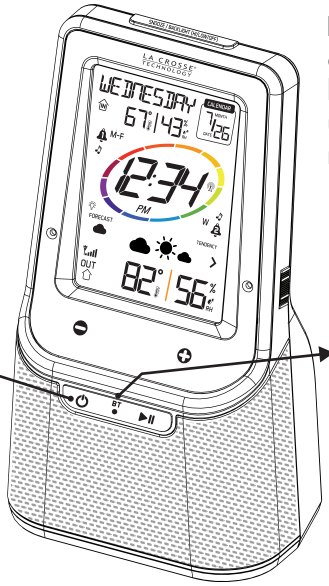
Step 1:
Hold the **Bluetooth Power Button** for a few seconds to start syncing

Step 2:
Activate Bluetooth on mobile device



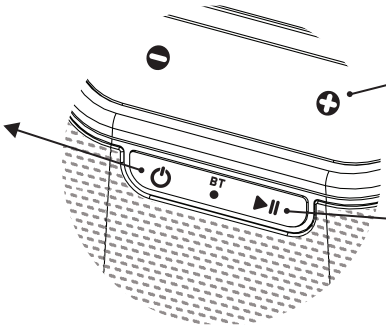
Look for this name: BT001

Step 3:
Play your music from your mobile device. Adjust volume if necessary.



Note: connection clarity will vary based on Apps used to play music

The LED will flash red and blue alternately when syncing and blue when connected.



Touch to adjust the volume

Press the button to disconnect

Press to pause and play music

Press and hold for 3 seconds, will disconnect the BT connection

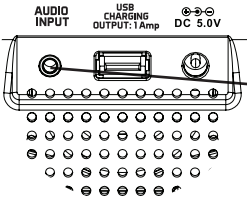
Note: If a phone call is made or received, the bluetooth connection will be temporarily interrupted. It will automatically reconnect after the call.

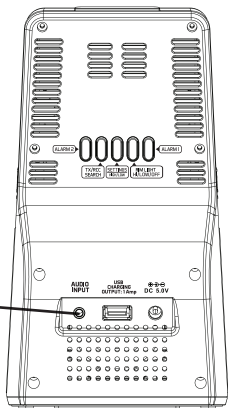
Note: If the weather station is unplugged briefly and is plugged in again, the weather station will lose Bluetooth connectivity.

Audio Input Jack

- Insert your audio input cable (not included) into audio input jack on the back of the weather station to listen to music.
- Use the ⊖ or ⊕ on front to adjust the volume (10 levels).

Audio Input





Settings

1. Hold the **SETTINGS** button on the back for three seconds to enter set mode.
2. Press the ⊖ or ⊕ on the front to adjust the values.
3. Press the **SETTINGS** button to confirm adjustments and move to the next item.
Note: Press the **SNOOZE/BACKLIGHT** button on the top to exit at anytime.

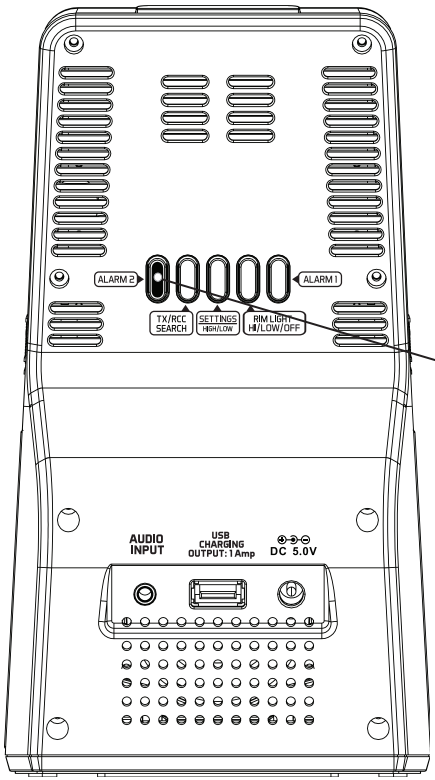
Time Setting Order:

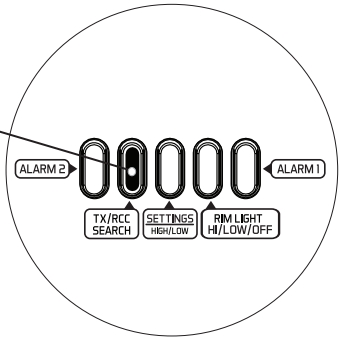
1. Beep On/Off
2. Atomic time signal (On/Off)
3. Time Zone
4. DST (Daylight Saving Time On/Off)
5. Hour
6. Minutes
7. Year
8. Month
9. Date
10. Fahrenheit/Celsius

Note: When atomic OFF is selected, you skip items 3 and 4 and go straight to Hours.

Time Zone	
AST	Atlantic
EST	Eastern
CST	Central
MST	Mountain
PST	Pacific
AKT	Alaska
HAT	Hawaiian

Note: Weekday will set automatically.





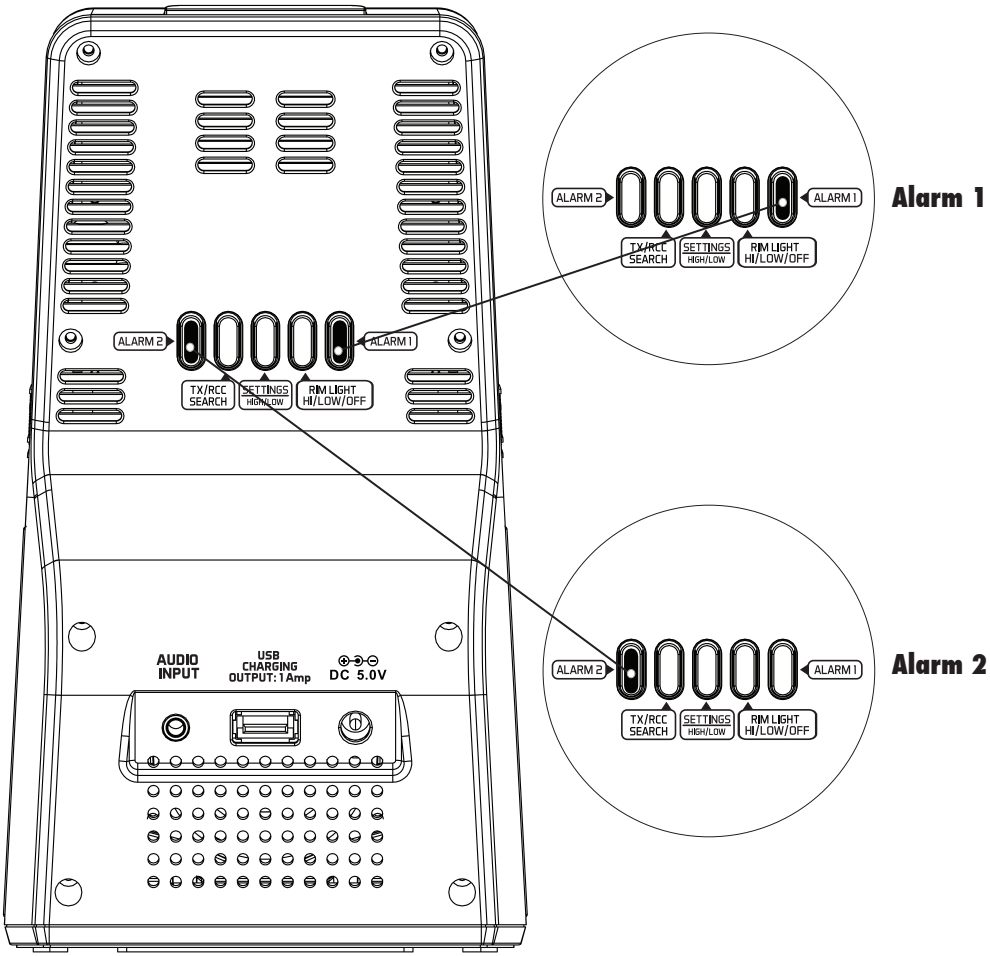
Press the Settings Button to set each setting.

Time Alarm Options (Single, M-F or Weekend) and Sound

Your weather station has two separate alarms (1& 2). Each alarm has different options for alarm type, sound, and volume of alarm.

Time Alarm Settings

1. Hold the **ALARM 1 or ALARM 2** button to enter alarm setting mode.
2. Press the ⊖ or ⊕ button to adjust the values.
3. Press the **ALARM 1 or ALARM 2** button to confirm & move to the next item.
Note: Press the **SNOOZE/BACKLIGHT** button on top to exit at anytime.



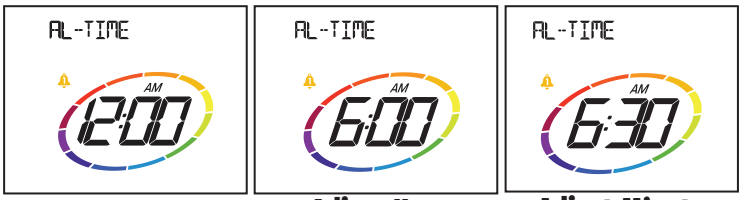
Note: Alarm only works with AC Power Adapter.

Alarm Setting Order

1. Alarm Time
2. Alarm Type
3. Alarm Sound

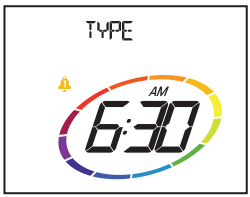
Note: After 20 seconds with no buttons pressed, the weather station will return to the live time display.

Alarm Time



Adjust Hour **Adjust Minutes**

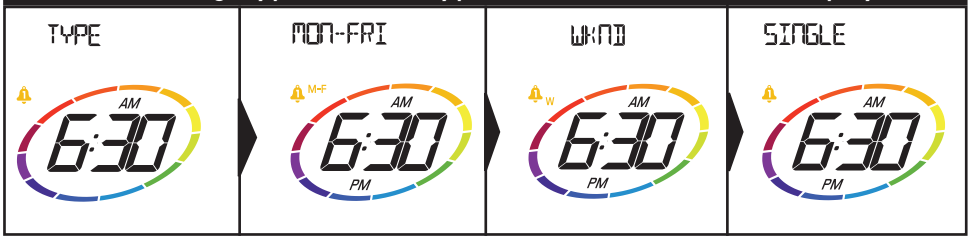
Alarm Type



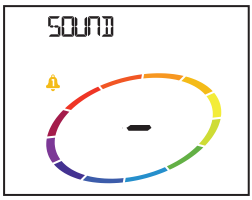
Select Alarm Type

Alarm Type	Icon
Monday-Friday	M-F
Weekend Only	W
Single or Day	

Press ⊕ to change type of alarm. Type of alarm will blink when displayed.

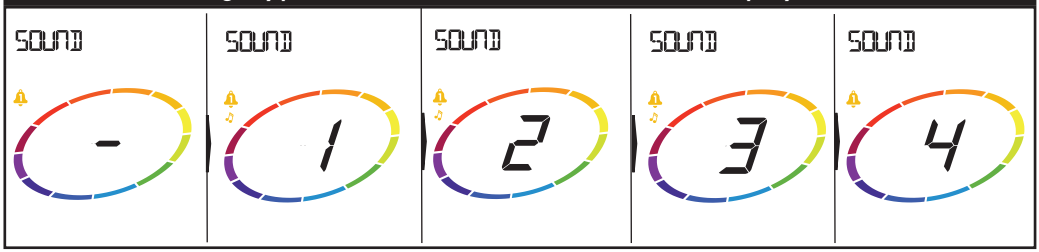


Alarm Sound



Alarm Sound	Number
Birds	1
Music	2
Sound	3
Beep	4

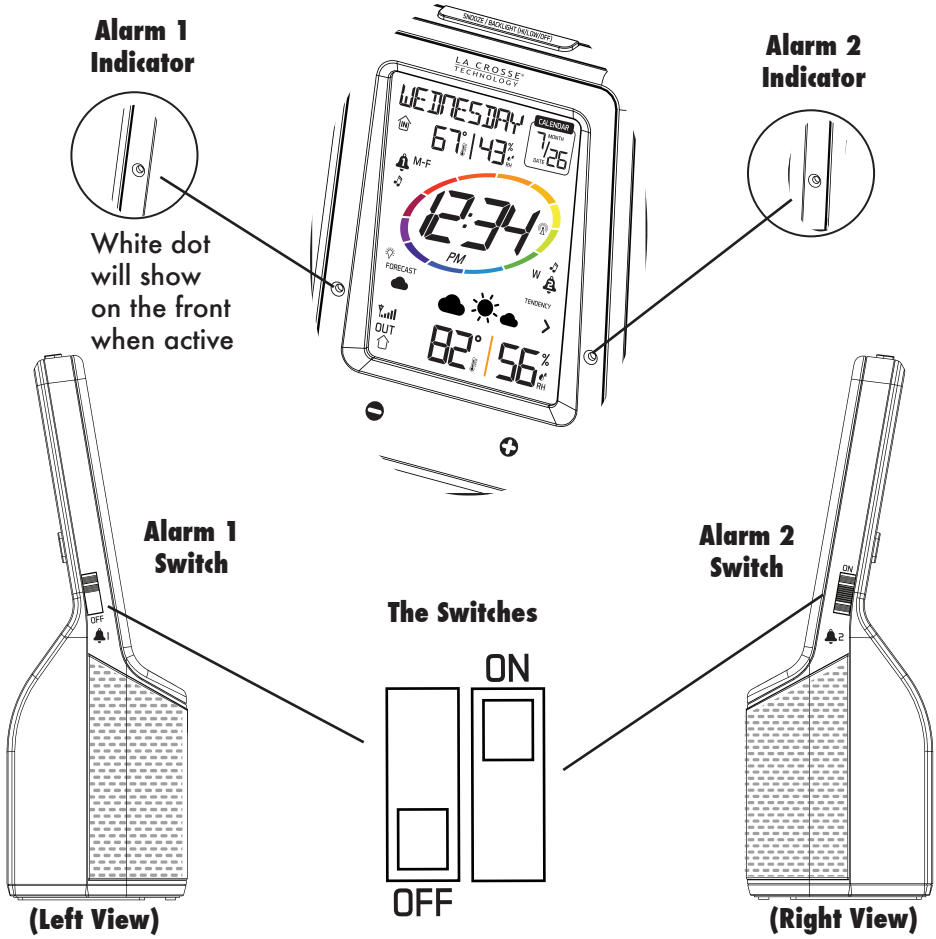
Press ⊕ to change type of sound. Sound will blink when displayed.



Note: the sound will sample as a number is selected. Select what sound to play during alarm.

Activate/Deactivate Time Alarm

- Slide the **Alarm 1 switch** on the left side, up to activate or down to deactivate. A white dot will show on the front when active.
- Slide the **Alarm 2 switch** on the right side, up to activate or down to deactivate.



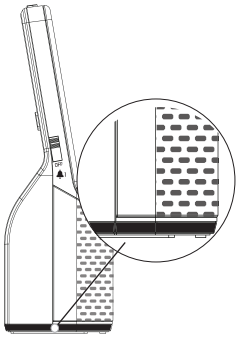
Snooze (Silences Alarm Temporarily)

- Press the **SNOOZE/BACKLIGHT** button on the top to trigger snooze for 10 minutes.
- To stop alarm for one day, press any button but **SNOOZE/BACKLIGHT** button while in snooze mode. The alarm icon will show solid.
- The bottom rim light will flash while snoozing.

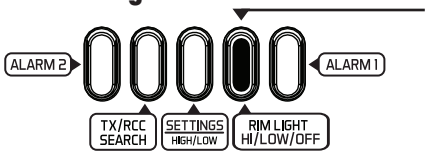
Note: It is a crescendo alarm. The alarm will start in low volume and increase to max volume in 5 minutes.

Colored LED Rim (Bottom of Weather Station)

The bottom rim light of the weather station can be programmed to change color based on Weather Forecast, user selection of one color, or on a loop of all colors.



LED Rim Light Button:

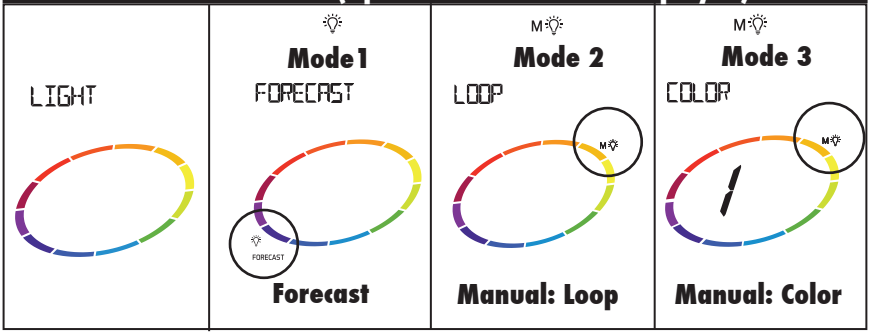


Press **RIM LIGHT HIGH/LOW/OFF** button to turn on or turn off the rim light

Use the settings menu to set rim light mode.

1. Hold the **RIM LIGHT** button on the back for 3 seconds until the word Light appears on the screen.
2. Scroll through the Rim light options by pressing ⊖ and ⊕.
3. Select one of the three options: rim light changing with forecast, manual loop, and manual color. Press **RIM LIGHT** button to set the rim light option.

RIM LIGHT MODES (Option will blink when displayed)



Color Changes According to Forecast:

Weather Forecast	Color
Sunny	Yellow
Partly Sunny	Green
Cloudy	Purple
Rainy	Dark Blue
Thunderstorm	Red
Snow	White

Description of each option

Forecast
Rim Light only changes with forecast.

Manual Loop
(the rim light will cycle all 7 colors) Rim light will change colors every 5 seconds.

Manual: Color
One Color Constant (Select on of 7 colors)

1. Red
2. Yellow
3. Green
4. Cyan
5. Blue
6. Purple
7. White

Note: When a time alarm is sounding or snoozing, the rim light will flash unless turned off.

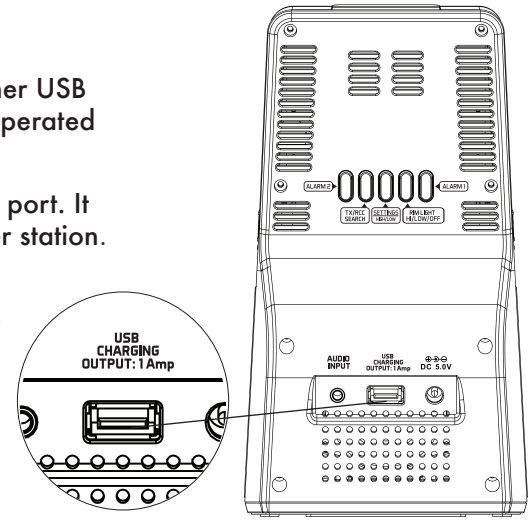
Note: When searching for the Atomic time signal, the backlight and rim light will turn off for a short period.

USB Charging Port

Charge a smartphone, camera or other USB devices when the weather station is operated with the 5V AC adapter (included).

Note: This is a power-output charging port. It does not supply power to the weather station.

- Connect your external device's USB charging cable (not included) to the USB charging port.
- Charging times will vary.
- **USB Power Output:** 1A maximum current. Charge 1A devices or devices that are self-regulating.



Backlight Adjustment

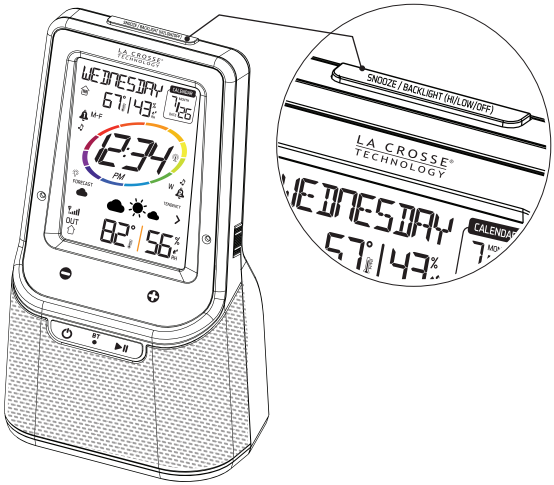
When using AC power:

- Must operate with AC adapter to have a constant backlight.
- Press the **SNOOZE/BACKLIGHT** button to adjust the backlight.

When using Battery power only:

- Press the **SNOOZE/BACKLIGHT** button for a 10 second backlight.

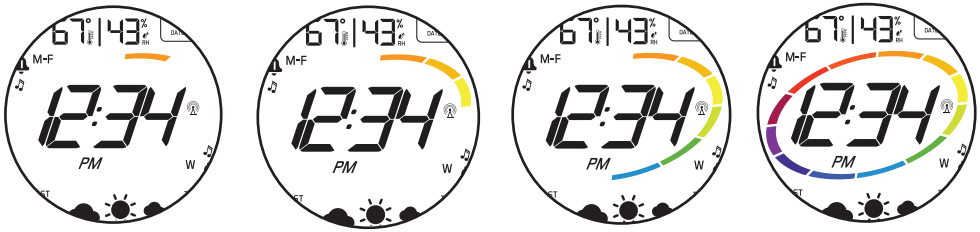
Note: When searching for the atomic time signal, the backlight and rim light will turn off for a short period.



Animated Color Circle (Every 5 Seconds)

- The animated color circle surrounding the time has twelve sections.
- Every five seconds, a new section will light up until all sections are lit after sixty seconds.
- The animation is not programmable.

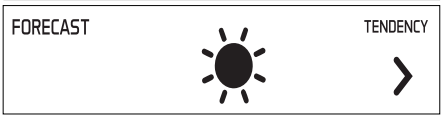
5 seconds **15 seconds** **30 seconds** **60 seconds**



Forecast Information

Forecast icons use changing atmospheric pressure to predict weather conditions for the next 12 hours with 70-75% accuracy.When Outdoor temperature is below 32°F and the forecast is Rainy or Thunderstorm, the LCD will display snowy.

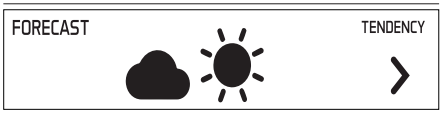
Sunny



Rainy



Partly Cloudy



Thunderstorm



Cloudy



Snowy



Intelligent Weather Forecast

This station learns; please allow 7 to 10 days for barometric calibration. This will ensure an accurate personal forecast for your location.

Forecast Tendency Indicators

Rising Pressure	Steady Pressure	Falling Pressure
^	>	v
Weather is Expected to Improve	Weather is Expected to Stay the Same	Weather is Expected to Worsen

Low Battery Icon

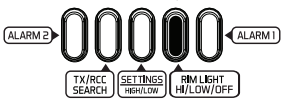
The Low battery icon indicates low battery for your station or sensor.

- If the icon is displayed in the outdoor section, replace batteries in the outdoor sensor.
- If the icon is displayed in the indoor section, replace batteries in the weather station.

View and Reset High/Low Values

The station automatically resets the **HIGH/LOW** values daily at midnight (12:00AM).
- Press the **HIGH/LOW** button to view maximum values.
- In HIGH mode, hold **HIGH/LOW** button for five seconds to manually reset maximum values.
- Press the **HIGH/LOW** button to view minimum values.
- In HIGH/LOW mode, hold the **HIGH/LOW** button five seconds to manually reset minimum values.

HIGH/LOW Button



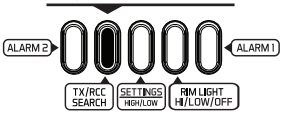
Outdoor Sensor Signal Strength

- Press the **TX-RCC SEARCH** button to search for the sensor.
- The strength signal icon will animate until the sensor signal is received or for 3 minutes if no signal available.

Sensor Strength Icon



TX/RCC SEARCH



Outdoor Sensor Positioning

- Mount the outdoor sensor on a north-facing wall or in any well shaded area. Under an eave or deck rail is preferred.
- The maximum wireless transmission range to the weather station is over 300 feet (91 meters) in open air, not including walls or floors.
- Be sure the outdoor sensor is mounted vertically.

Restart: When the outdoor readings show dashes:
- Bring the sensor in the house five feet from the weather station.
- Remove batteries from the sensor, as well as, the batteries and AC adapter from the weather station.
- Press any button 20 times.
- After 15 minutes insert batteries into the sensor, as well as batteries and AC adapter into the weather station.
- Wait 15 minutes to establish a strong connection. Place sensor outside in shaded location.

WWVB Atomic Time Signal Search

 — Atomic Icon

- Hold the **TX/RCC SEARCH** button for two seconds, to start or stop a manual atomic signal search. The **Atomic Time Icon** flashes during signal search.
- For information about WWVB visit: http://www.nist.gov/pml/div688/grp40/wwvb.cfm.

Note: When searching for the Atomic time signal, the backlight and rim light will turn off for a short period.

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 the 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 correctly with regard to polarity (+and -).
- Remove batteries from equipment which is not to be used for an extended period of time.
- Remove expired batteries promptly.
- Do not expose to extreme temperature, vibration or shock.
- Clean with a soft damp cloth. Do not use solvents or scouring agents.
- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information. It is intended for home use only.
- The specs of this product may change without prior notice.
- Improper use or unauthorized opening of housing voids warranty.
- If the product is not working properly, change the batteries and/or check the AC adapter connection.
- Replace batteries every 12 months.

Warranty and Support Information

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 (FAQS):

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

Specifications	
Indoor	• Temperature Range: **32°F to 122°F (0°C to 50°C)** • Humidity Range: **10% - 99% (RH)**
Outdoor	• Temperature Range: **-40°F to 140°F (-40°C to 60°C)** • Alkaline Batteries: **-20°F to 140°F (-29°C to 60°C)** • Lithium Range: **-40°F to 140°F (-40°C to 60°C)** **Note**: Temperatures below - 20°F (-29°C) require Lithium batteries in the outdoor sensor • Humidity Range: **10% - 99% (RH)** • Humidity Range: **Over 300 ft. (91 meters) RF 433MHz (open air)**
Power	• Bluetooth Weather Station Primary AC Power: **5-volt AC power adapter (included) AC#: HX18-0502500-AU** • Optional/Battery Backup: **Optional 3-AAA, IEC, LR3 batteries (not included)** • TX141TH-BV2 Sensor: **2-AA, IEC, LR6 batteries (not included)**
Battery Life	• Bluetooth Weather Station Battery Backup: **Battery life is over 12 months when using the AC adapter for primary power.** • TX141TH-BV2 Outdoor Sensor: **Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries.**
Bluetooth	• Bluetooth Protocol: **A2DP, AVRCP, HFP, HSP** • Bluetooth Connection: **BT0001** • Bluetooth Range: **32 feet, 10 meters (open air, no obstructions)** • Bluetooth Frequency: **2.400GHz-2.480GHZ**
Dimensions	• Bluetooth Weather Station: **8.33 x 4.61 x 2.85" (211.6 x 117.1 x72.4mm)** • TX141TH-Bv2 Outdoor Sensor: **1.57"L x 0.82"W x 5.12"H (40 x 21 x 130mm)**

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 modifications to this equipment. Such modifications could void the user authority to operate the equipment.

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