
Ambient Weather RC-8370 Radio Controlled Projection Clock with Indoor Temperature User Manual



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1. Introduction

Thank you for your purchase of the Ambient Weather RC-8370 Radio Controlled Projection Clock with Indoor Temperature. The following user guide provides step by step instructions for installation, operation and troubleshooting. To download the latest full sized manual and additional troubleshooting tips, please visit:

<http://ambientweather.wikispaces.com/rc8370>

2. Warnings

- ⚠ **Warning.** Never look directly into the time and temperature projector for an extended period of time. This can cause temporary blindness.
- ⚠ **Warning.** Only use approved AC adapter.

3. Getting Started

3.1 Parts List

| QTY | Item |
|-----|---|
| 1 | Clock Dimensions (LxWxH): 4" L x 2"D x 4.5"H |
| 1 | AC Adapter |
| 1 | User Manual |


Figure 1

3.2 Powering Up

1. Remove the battery door on the back of the clock and insert 3 new AA batteries, according to the polarity information marked on the battery compartment, and replace the battery door.
2. Once the batteries are inserted, all of the LCD segments will light up briefly before entering the radio controlled clock (RCC) reception mode.
3. Plug in the AC adapter.
4. The RCC clock will clock 2:00am and will attempt to synchronize with the RCC.

The clock will automatically search for the time signal at 2:00, 8:00, 14:00 (2pm) and 20:00 (8pm).

3.2.1 Radio Controlled Clock (RCC)

Eight seconds after power up, the clock begin radio controlled clock (RCC) reception and the RCC search icon  will turn on. The RCC will continue to search for six minutes. It will try again every two hours.





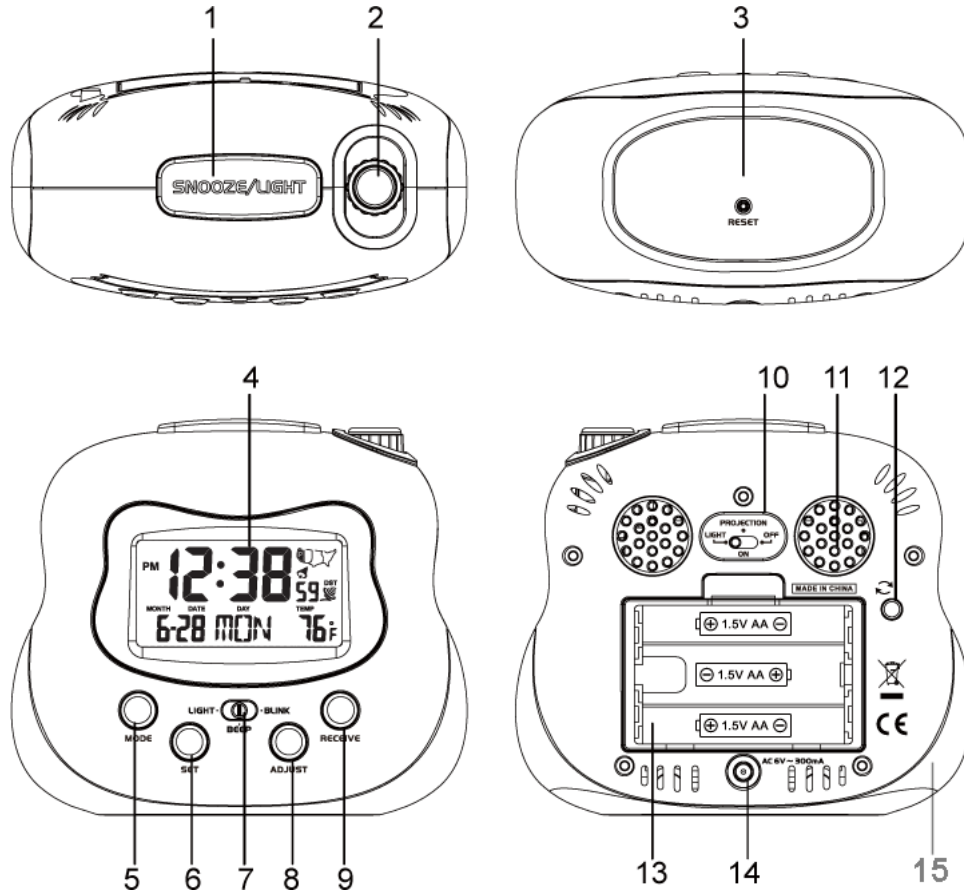
| RCC Icon | Description | RCC Icon | Description |
|---|---|---|-------------------|
|  | No signal |  | Acceptable signal |
|  | Weak signal (flashes between two icons). Cannot be interpreted. |  | Excellent signal |

Figure 2

If the time is incorrect by increments of an hour, or does not change on your radio controlled clock (RCC), please reference Section 8, Troubleshooting Guide.

3.2.2 Clock Layout



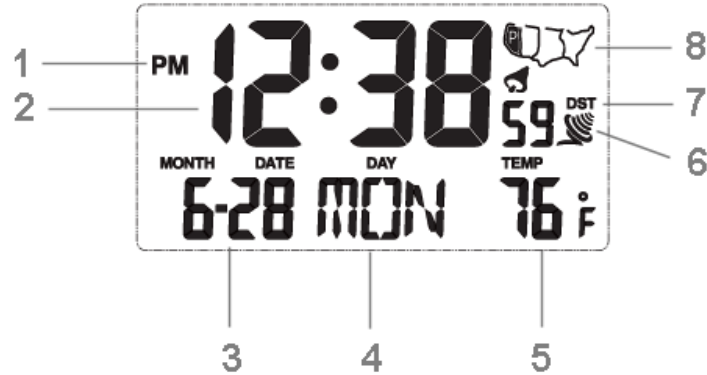
| No | Description | No | Description |
|----|--|----|---|
| 1 | <p>Snooze/Light Button</p> <ul style="list-style-type: none"> - When the clock is powered by batteries: Press SNOOZE/LIGHT button to turn on the projector and backlight for 5 seconds. Or press and hold SNOOZE/LIGHT button for 4 seconds to turn on the projector for 30 minutes. During the projection, press the SNOOZE/LIGHT key again to turn off the projection. - Press the SNOOZE/LIGHT button to disable alarm for 24 hours while in Alarm Mode. Press the SNOOZE/LIGHT button to disable alarm while in Snooze Mode. Press and Hold the SNOOZE/LIGHT button for two seconds to disable alarm for 24 hours while in Snooze Mode. | 8 | <p>ADJUST Button</p> <ul style="list-style-type: none"> - In normal time mode, press the ADJUST button to switch between Month/Day, and Year. - In alarm time mode, press the ADJUST button to turn on/off alarm and snooze function. - In Time and ALARM set mode, press the ADJUST button to adjust the values, or press and hold to change rapidly. - When the alarm is sounding/blinking, press the ADJUST button to stop the current alarm. |

| | | | |
|---|--|----|---|
| 2 | Projector Light | 9 | RECEIVE Button - Press the RECEIVE button to initiate a search for the radio controlled time. - When the alarm is sounding/blinking, press the RECEIVE button to stop the current alarm. |
| 3 | RESET Button (bottom) | 10 | PROJECTION LIGHT/ON/OFF Switch This function is only applicable when powered by the AC adaptor. - Slide to the LIGHT position to keep the backlight and projection on continuously. - Slide to ON position to keep the projection on continuously, but turn off the backlight - Slide to OFF position to turn off both the backlight and the projection light. |
| 4 | LCD Display | 11 | Speaker for Buzzer |
| 5 | MODE Button - In normal time mode, press the MODE button to switch between normal time mode and alarm time mode. - In time or alarm set mode, press the MODE button to exit the set mode and save the values. - When the alarm is sounding/blinking, press to stop the current alarm. | 12 | REVERSE Button. - Press the reverse button to reverse the projection 180 degrees. |
| 6 | SET Button - In normal time mode, press the SET button to switch between °F and °C. - Press and hold the SET button for 2 seconds to enter time setting mode. - In alarm time mode, press and hold the SET button for 2 seconds to enter the alarm time setting mode. - When the alarm is sounding/blinking, press the SET button to stop the current alarm. - In alarm time mode, press the SET button to select the time zone. | 13 | Battery Compartment |
| 7 | LIGHT/BEEP/BLINK Slide Switch - Slide to “LIGHT” position to turn on the night light. - Slide to “BEEP” position to turn off light and blink function. - Slide to “BLINK” position to turn on the blink function. | 14 | AC Adapter Jack |
| | | 15 | Night Light |

Figure 3

4. Operational Modes

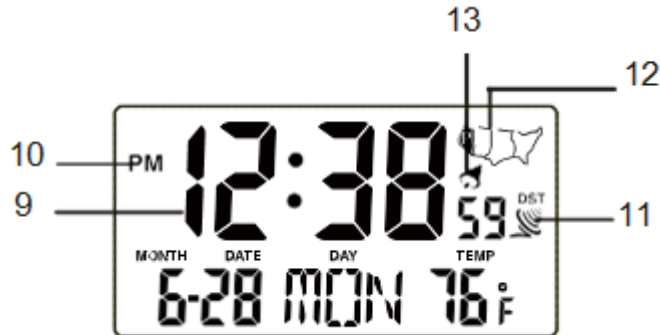
4.1 Normal Time Mode



| No | Description | No | Description |
|----|-------------|----|--|
| 1 | AM/PM | 5 | Indoor Temperature |
| 2 | Time | 6 | Radio Controlled Clock signal strength indicator |
| 3 | Month/Day | 7 | Daylight Savings Time |
| 4 | Day of Week | 8 | Time Zone |

Figure 4

4.2 Alarm Time Mode









| No | Description | No | Description |
|----|-------------|----|-------------|
| 9 | Alarm Time | 12 | Time Zone |
| 10 | AM/PM | 13 | Alarm icon |
| 11 | Alarm Mode | | |

Figure 5

5. Settings

5.1 Time, Date, Time Zone Settings

| Operation | Display |
|---|--|
| <p>While in Normal Time Mode, Press and Hold the SET button for two seconds to enter the time, date, and Time Zone settings mode.</p> <p>The Hour will flash. Press the ADJUST button to change. Press and hold the ADJUST button to change rapidly.</p> |  |
| <p>Press the SET button again (do not hold) and the Minute will flash. Press the ADJUST button to change. Press and hold the ADJUST button to change rapidly.</p> |  |
| <p>Press the SET button again (do not hold) and the Second will flash. Press the ADJUST button to reset to 00.</p> |  |
| <p>Press the SET button again (do not hold) and the 12 hour format (AM/PM) will flash. Press the ADJUST button to change between 12 hour and 24 hour format.</p> |  |
| <p>Press the SET button again (do not hold) and the Day will flash. Press the ADJUST button to change. Press and hold the ADJUST button to change rapidly.</p> |  |
| <p>Press the SET button again (do not hold) and the Month will flash. Press the ADJUST button to change. Press and hold the ADJUST button to change rapidly.</p> |  |







| Operation | Display |
|--|--|
| Press the SET button again (do not hold) and the Year will flash. Press the ADJUST button to change. Press and hold the ADJUST button to change rapidly. |  |
| Press the SET key again (do not hold) and the language will flash. Press the ADJUST key to change between GB (English), FR (French), DE (German), ES (Spanish) and IT (Italian). |  |
| Press the SET key again (do not hold) to exit the SET mode. |  |

Figure 6

5.2 Alarm Settings

| Operation | Display |
|---|--|
| While in Normal Time Mode, press the MODE button to display the Alarm Time. |  |
| While in Alarm Time Mode, press and hold the SET button for two seconds, and the alarm hour will flash. Press the ADJUST button to increase. Press and hold the ADJUST button to increase rapidly. |  |
| Press the ALARM ON/OFF button again (do not hold) and the alarm minute will flash. Press the UP button to increase. Press and hold the UP button to increase rapidly. |  |

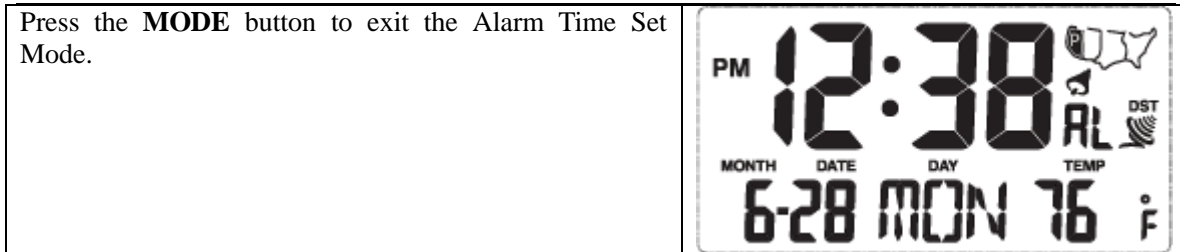




Figure 7

5.3 Using the Alarm and Snooze Functions

1. Set the alarm time as described in Section 5.2.
2. While in Normal Time Mode, press the **MODE** button to display the alarm time.
3. Press the **ADJUST** button to turn on the alarm and snooze function .
4. Press the **ADJUST** button again to turn off the alarm function and snooze function.


 **Note:** In the snooze mode, the alarm will sound five times in five minute intervals. The alarm duration is 120 seconds. To temporarily silence the alarm, press the **SNOOZE/LIGHT** button on the top of the radio, and the alarm bell will flash.

5.3.1 Disabling a Sounding Alarm

Press the **SNOOZE/LIGHT** button to disable alarm for 24 hours while in Alarm Mode.
Press the **SNOOZE/LIGHT** button to disable alarm while in Snooze Mode.
Press and Hold the **SNOOZE/LIGHT** button for two seconds to disable alarm for 24 hours while in Snooze Mode.


5.4 Setting the Time Zone

Press the **MODE** button (do not hold) to enter the Alarm Mode. The alarm time will display.
Next, press the **SET** button to select your time zone.

 **Note:** There are four time zones to select from: P=Pacific, M=Mountain, C=Central, E=Eastern.

5.1 Daylight Time Zone Settings

The clock has been programmed to automatically switch when daylight saving time is in effect. Your clock will display “DST”.

 **Note:** Arizona does not observe daylight savings time. If you live in Arizona and DST is in effect, you will need to change your time zone to **P** for Pacific.

5.5 Changing the Temperature Units of Measure (°F/°C)

Press (do not hold) the **SET** button to switch between °F and °C units of measure.

5.6 Searching for the Radio Controlled Clock Time Signal

To force a search of the radio controlled time signal, press the **RECEIVE** button. The RCC search icon will be displayed.

6 Projection, Night Light and Back Light

6.1 Using the Projection and Backlight

- When the clock is powered by the AC adapter:
Slide the **PROJECTION LIGHT/ON/OFF** switch to the **LIGHT** position, and the projection and backlight will be on all the time.

Slide the **PROJECTION LIGHT/ON/OFF** switch to the **ON** position, and the projection will be on all the time.

Slide the **PROJECTION LIGHT/ON/OFF** switch to the **OFF** position, and the projection and backlight will be off all the time.

- When the clock is powered by batteries:
Press **SNOOZE/LIGHT** button to turn on the projector and backlight for 5 seconds.
Or press and hold **SNOOZE/LIGHT** button for 4 seconds to turn on the projector for 30 minutes. During the projection, press the **SNOOZE/LIGHT** key again to turn off the projection.



Figure 8

6.2 Using the Night Light

Slide the **LIGHT/BEEP/BLINK** slide switch to the **LIGHT** position to turn on the night light at the bottom of the clock.

Slide the **LIGHT/BEEP/BLINK** slide switch to the **BLINK** position, and the light will blink instead of beep when the time and alarm keys are pressed, or the alarm is active.

When the slide switch is set to **BLINK** and the alarm occurs:

- The clock will flash instead of beep when an alarm is active.
- It will stop blinking automatically after two minutes. You can press the **SNOOZE/LIGHT** button to stop the night light from blinking for 24 hours.
- If the snooze function is turned on, press **SNOOZE/LIGHT** key to enter snooze mode when the alarm is active, and the night light will blink five times in five minute intervals. The night light blink duration is two minutes.

- Press and Hold the **ALARM/SNOOZE** button for two seconds to disable the night light for 24 hours while in Snooze Mode.

7 Specifications

7.1 Measurement Specifications

The following table provides specifications for the measured parameters.

| Measurement | Accuracy | Resolution |
|--------------------|------------|------------|
| Indoor Temperature | ± 2 °F | 1 °F |

6.2 Power Consumption

- 3 x AA 1.5V Alkaline batteries recommended.

8 Troubleshooting Guide

If your question is not answered here, you can contact us as follows:

1. Email Support: support@ambientweather.com
2. Technical Support: 480-346-3380 (M-F 8am to 4pm Arizona Time)

| Problem | Solution |
|--|--|
| Radio controlled clock does not update. | <ul style="list-style-type: none"> • Be patient. Wait at least one week before contacting Ambient Weather. The RCC is a shortwave signal originating near Fort Collins, Colorado, and travels thousands of miles by bouncing off the ionosphere. The signal is better at night due to solar interference during the daytime. The farther you are from Colorado, the weaker the signal. Urban environments can also affect the signal strength. • Locate the console at night near a window or outer wall, and away from other radiating sources, like wireless routers or TVs. This will insure the best reception possible. • If running on battery power only, test and replace the batteries in the clock if required. Low batteries are often the cause for weak reception. • Avoid placing the clock on a solid metal plate. • Avoid closed in areas. Closed in areas such as airports, basements, or industrial buildings are not recommended. • Press the reset button on the bottom of the clock. |
| The clock is off by increments of an hour. | <ul style="list-style-type: none"> • Check your Time Zone Setting. Make sure your time zone is set properly in the clock settings. |
| The clock does not respond to commands. | <ul style="list-style-type: none"> • Press the reset pinhole on the bottom of the |

| Problem | Solution |
|---------|--|
| | clock with an open ended paper clip or sharp tool. |

9 Liability Disclaimer

Please help in the preservation of the environment and return used batteries to an authorized depot. The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.

Reading the “User manual” is highly recommended. The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.

This product is designed for use in the home only as indication of weather conditions. This product is not to be used for medical purposes or for public information.

The specifications of this product may change without prior notice.

This product is not a toy. Keep out of the reach of children.

No part of this manual may be reproduced without written authorization of the manufacturer.

Ambient, LLC WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT.

10 Warranty Information

Ambient, LLC 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 only to the original purchaser of this product. To receive warranty service, the purchaser must contact Ambient, LLC for problem determination and service procedures.

Warranty service can only be performed by a Ambient, LLC. The original dated bill of sale must be presented upon request as proof of purchase to Ambient, LLC.

Your Ambient, LLC warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (lack of reasonable and necessary maintenance); (2) damage resulting from failure to follow instructions contained in your owner’s manual; (3) damage resulting from the performance of repairs or alterations by someone other than an authorized Ambient, LLC authorized service center; (4) units used for other than home use (5) applications and uses that this product was not intended (6) the products inability to receive a signal due to any source of interference or metal obstructions and (7) extreme acts of nature, such as lightning strikes or floods.

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.

