
Ambient Weather RC-6050 ClearView AM/FM Radio Controlled Projection Alarm Clock with Indoor Temperature User Manual



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1. Introduction

Thank you for your purchase of the Ambient Weather RC-6050 ClearView AM/FM Radio Controlled Projection Alarm 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:

2. Warnings

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

3. Getting Started

3.1 Parts List


QTY	Item
1	Clock Radio Frame Dimensions (LxWxH): 5.5 x 2.2 x 3.8"
1	UL Rated AC Adapter
1	User Manual

Figure 1


3.2 Powering Up

1. Plug the AC adaptor into the DC jack of the clock.
2. Remove the battery door on the back of the clock and insert 3 new AAA batteries, according to the polarity information marked on the battery compartment, and replace the battery door.
3. Once the batteries are inserted, all of the LCD segments will light up briefly before entering the radio controlled clock (RCC) reception mode.
4. The RCC clock will set to 12:00pm 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).

 **Note:** If no display is present after powering up the clock, press the reset key on the back of the clock with an open ended paper clip or sharp tool.

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.





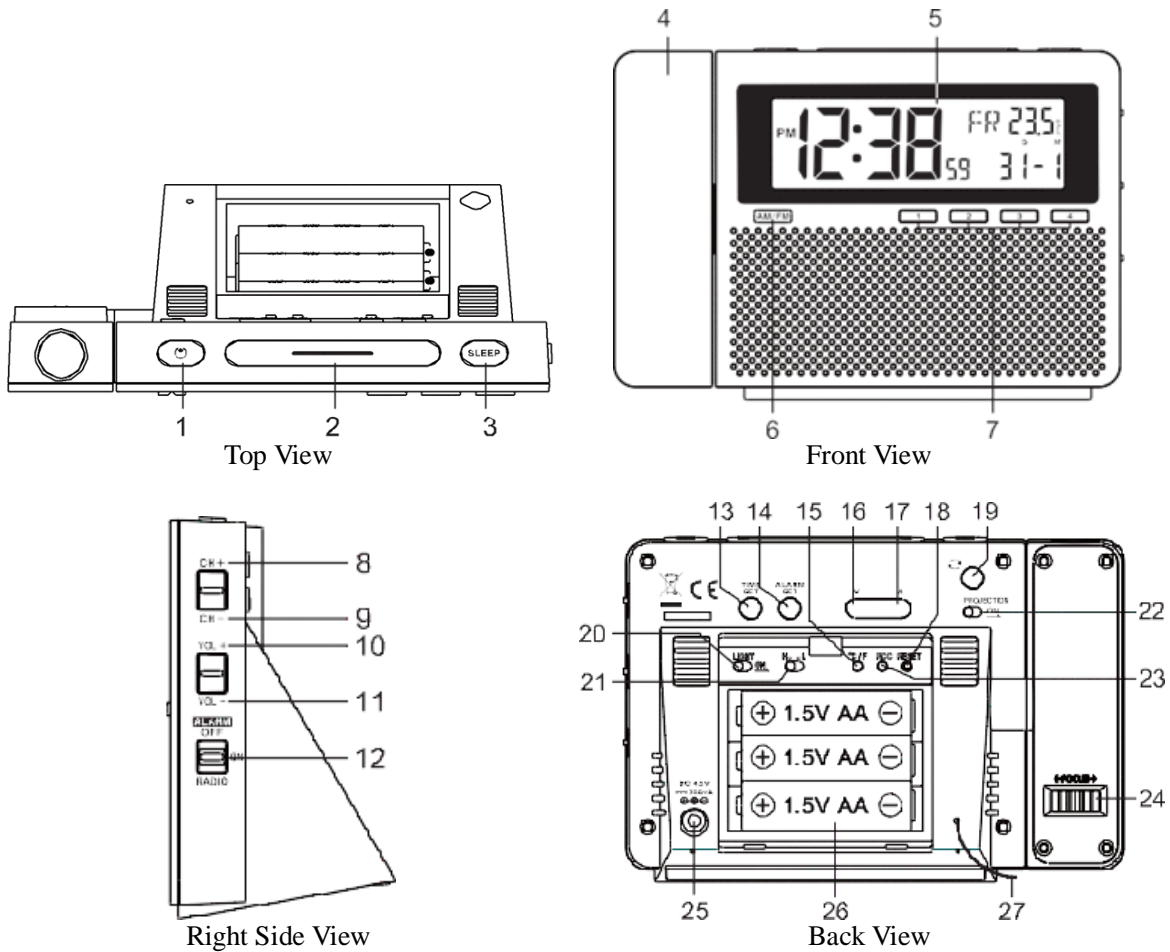
RCC Icon	Description	RCC Icon	Description
	No signal		Acceptable signal
	Weak signal (flashes between two icons). Cannot be interpreted.		Excellent signal

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 7, Troubleshooting Guide.

3.2.2 Clock Layout and Features



No	Description	No	Description
1	Radio On / Off Button. Press and hold for 1 second to turn on or off the radio (invalid when alarm is sounding).	15	°C/°F Button. Press to select temperature units between Celsius and Fahrenheit.
2	Snooze / Light Button. Projection Operation. Reference Section 5.6.1 for detailed operation. Alarm Operation: When the alarm sounds, press once to enter snooze mode and turn on the backlight and projection for 5 seconds. When the radio alarm sounds, press once to enter snooze mode and turn on the backlight and projection for 5 seconds.	16	DOWN Button. In the time and date or alarm set mode, press to adjust the value of the flashing digit downwards. Press and hold to change rapidly.

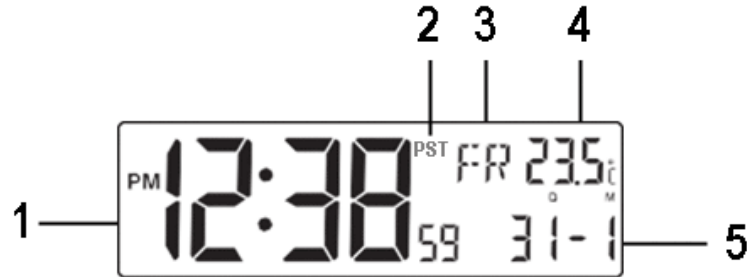
3	Sleep Button. When the radio is turned on: Press to display sleep time and SLEEP icon, press the sleep button repeatedly to change the sleep time between 15, 30 and 60 minutes.	17	UP Button. In the time and date or alarm set mode, press to adjust the value of the flashing digit upwards. Press and hold to change rapidly.
4	Projector	18	Reset Button. If the radio stops functioning, press the reset button.
5	LCD (display)	19	ROTATE Button. Press to rotate the projection 180 degrees.
6	AM/FM Button. When the radio is turned on: Press to switch between AM and FM.	20	BACKLIGHT ON/OFF Slide Switch. Reference Section 5.6.1 for detailed operation.
7	Radio Preset Buttons [1], [2], [3], [4], [5]. When the radio is turned on: Press to tune to preset station. Press and hold for 2 seconds to preset the current station.	21	L/H slide switch. Set backlight brightness. Slide to L position to dim the backlight. Slide to H position to brighten the backlight.
8	CH+ Toggle Switch. When the radio is turned on: Toggle CH+ to increase the radio frequency. Toggle and hold CH+ for 1 second to scan. During scanning, Toggle CH+ to stop scanning.	22	PROJECTION ON/OFF Slide Switch. Reference Section 5.6.1 for detailed operation.
9	CH- Toggle Switch. When the radio is turned on: Toggle CH- to decrease the radio frequency. Toggle and hold CH- for 1 second to scan. During scanning, Toggle CH- to stop scanning.	23	RCC Button: In normal mode, press to manually turn on or turn off the RC reception. During the RC reception mode, press and hold for 8 seconds to turn off the RC auto reception function. Press and hold it for 8 seconds again to turn on RC auto reception function.
10	VOL+ Toggle Switch. When the radio is turned on : Toggle VOL+ to increase the radio volume.	24	FOCUS Knob. Adjust the quality of the projected data.
11	VOL- Toggle Switch. When the radio is turned on: Toggle VOL- to decrease the radio volume.	25	DC jack for AC adapter
12	ALARM ON/OFF/ALARM RADIO Slide Switch. Slide to ON position to turn on alarm function. The alarm time displays for 5 seconds. Alarm will beep at the displayed alarm time. Slide to OFF position to turn off the alarm. Slide to RADIO position to turn on alarm function. The alarm time displays for 5 seconds. Radio will sound at the displayed alarm time.	26	Battery compartment

13	<p>TIME SET Button. Press and hold for 2 seconds to enter the time and date setting mode. In time and date set mode, press to advance settings. In time and date set mode, press and hold for 2 seconds to save settings and exit.</p>	27	FM antenna
14	<p>ALARM SET Button. Press and hold it for 2 seconds to enter alarm time setting mode. In alarm time set mode, press to advance alarm settings, and exit alarm settings after last alarm setting. In normal mode, press to display the alarm time for 5 seconds.</p>		

Figure 3

4. Operational Modes

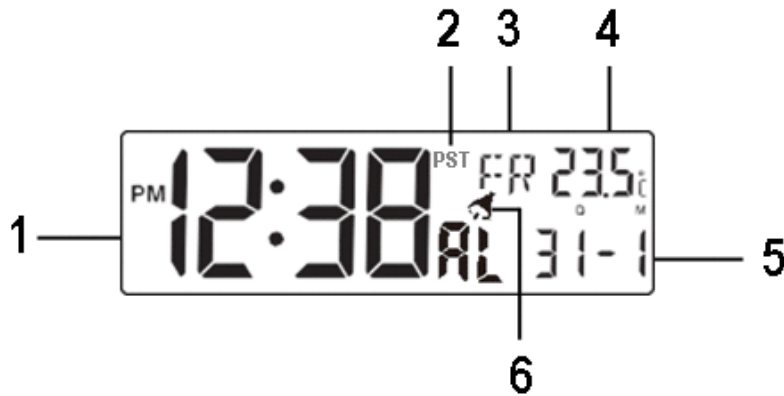
4.1 Normal Time Mode



No	Description	No	Description
1	Time	4	Temperature
2	Time Zone	5	Date
3	Day of week		

Figure 4

4.2 Alarm Time Mode




No	Description	No	Description
1	Alarm time	4	Temperature
2	Time Zone	5	Date
3	Day of week	6	Alarm On

Figure 5

4.3 Radio Operation and AM/FM Mode

4.3.1 Turning On the Radio

Press and hold the **RADIO ON/OFF** button  for 1 second to turn on the radio.
 Press the **AM/FM** button to select between AM and FM mode.

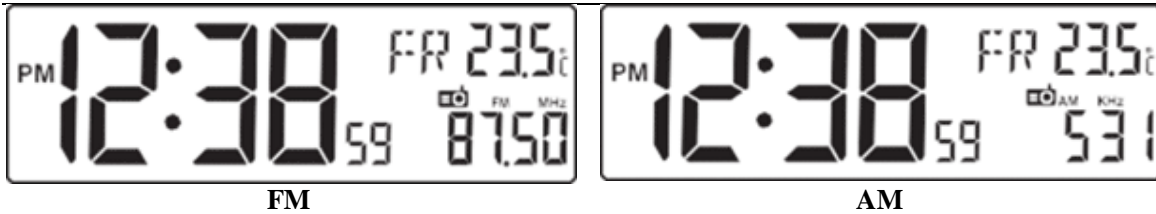



Figure 6

4.3.2 Radio Tuning and Volume Control

Press the **CH+** / **CH-** button to select your favorite station, and press the **VOL+** / **VOL-** button to adjust the volume of your radio.

Press and hold the **RADIO ON/OFF** button  again for 1 second to turn off the radio.

4.3.3 Auto Scanning

With the radio on, press and hold the **CH+** / **CH-** button to enter the auto-scan mode and the radio will automatically search for the next station with reception.

4.3.4 Programming and Recalling Preset Stations

When listening to a favorite AM or FM station, press and hold Preset button **1**, **2**, **3**, **4** for two seconds to program the preset channel.



Figure 7

5. Settings


5.1 Time Zone Settings

The default time zone is Pacific (PST). If your location is out of the time zone, you can select the desired time zone.









Reference Section 5.3 for details.

5.2 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 **PST** for Pacific.

5.3 Time and Date Settings

Operation	Display
While in Normal Time Mode, Press and Hold the TIME SET key for two seconds to enter the time and date settings mode.	
The Time Zone will flash. Press UP or DOWN button on the back to change. There are six time zones to select from: PST=Pacific, MST=Mountain, CST=Central, EST=Eastern, AST = Atlantic  Note: The time zone icon is very small and is located next to the Minutes. Please reference the arrow in the image to the right.	
Press the TIME SET key again (do not hold) and the Year will flash. Press UP or DOWN button to change.	
Press the TIME SET key again (do not hold) and the Month / Day Format will flash (M D). Press UP or DOWN button to change between month-day (USA) and day-month (everywhere else).	Missing image from the original manual
Press the TIME SET key again (do not hold) and the Month will flash. Press UP or DOWN button to change.	
Press the TIME SET key again (do not hold) and the Day will flash. Press UP or DOWN button to change.	
Press the SET key again (do not hold) and the hour format will flash. Press the ADJUST key to increase. Press UP or DOWN button to change between 12 hour and 24 hour format.	
Press the SET key again (do not hold) and the hour will flash. Press UP or DOWN button to change.	




Operation	Display
Press the SET key again (do not hold) and the minute will flash. Press UP or DOWN button to change.	
Press the SET key again (do not hold) and the second will flash. Press UP or DOWN button to reset to 0.	
Press the SET key again (do not hold) and the language will flash. Press the UP button to change between GB (English), FR (French), DE (German), ES (Spanish) and IT (Italian).	
Press the SET button to save and exit the time and date settings mode.	

Figure 8

5.4 Alarm Settings




Operation	Display
While in Normal Time Mode, press the ALARM SET button for two seconds to enter the alarm setting mode.	
The alarm hour will flash. Press UP or DOWN button to change.	
Press the SET key again (do not hold) and the alarm minute will flash. Press UP or DOWN button to change.	
Press the SET button to save and exit the alarm time settings mode.	


Figure 9

5.5 Using the Alarm and Snooze Functions

1. Set the alarm time as described in Section 5.4.
2. Slide the **ALARM ON/OFF/ ALARM RADIO** slide switch to the **ON** or **RADIO** position. When the clock reaches the alarm time, the alarm will sound.
3. To stop the alarm: Move the alarm switch to the OFF position, or wait one minute for the alarm to stop, and it will sound again in 24 hours.
4. To temporarily silence the alarm for five minutes, press the **SNOOZE/LIGHT** key on the top of the radio. The alarm icon  will flash. After five minutes, the alarm will sound again. This will continue until the alarm is turned off.

5.6 Projector and Backlight

5.6.1 Using the Projector and Backlight

 **Note:** The projector and backlight are temporary when operating on batteries only, to save battery life.

1. When the clock is powered by the battery:
 - 1.1 Press **SNOOZE/LIGHT** key to turn on the projector and backlight for 5 seconds.
 - 1.2 Or press and hold **SNOOZE/LIGHT** key 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.
2. When the clock is powered by the AC adapter:
 - 2.1 Slide the **PROJECTION ON/OFF** switch to the **ON** position, and the projection will be on all the time, or slide it to the **OFF** position to return to normal mode.
 - 2.2 Slide the **LIGHT ON/OFF** switch to **ON** position, and the backlight will be on all the time, or slide it to **OFF** position to return to normal mode.

5.6.2 Projector Backlight Rotation


1. Press **SNOOZE/LIGHT** key to turn on the projector and backlight.
2. Press the **REVERSE** key  to reverse the projected data 180 degrees.



Figure 10

5.6.3 Adjusting Backlight Focus

Adjust the focus of the projected data by rotating the focus knob on the projector.

5.7 Low Battery Indicator

When the battery is full, no battery icon will be displayed. When the battery is low, the low battery indicator will be displayed. Replace with 3 new AA size batteries. Pay attention to the polarity. After the batteries are replaced, unplug an plug in the AC adapter to clear the low battery indicator.



Figure 11

6. Specifications

6.1 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.

7. 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 back 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 key on the back of the clock with an open ended paper clip or sharp tool.

Problem	Solution
The projection is fuzzy	<ul style="list-style-type: none"> • Adjust the focus setting.

8. Accessories

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.

