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# Ambient Weather WR-090 Emergency Radio, Flashlight with AM/FM/NOAA Weather Band, Weather Alert User Manual



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## 1. Introduction

Thank you for your purchase of the Ambient Weather WR-090 Emergency Radio, Flashlight with AM/FM/NOAA Weather Band, and Weather Alert. To download the latest full size manual (for easy viewing) and additional troubleshooting tips, please visit:

<http://ambientweather.wikispaces.com/wr090>



Figure 1

## 2. Important Notes

Before using this product, please read the following warning and cautions:

- This unit is water resistant, but is not water proof. Do not expose to rain or moisture. Do not submerge or expose for extended periods to water.
- Only operate within specified temperature range (32 °F to 131 °F).
- Unplug immediately from USB power if liquid has been spilled or any object has fallen into the unit.
- Do not remove cover (or back). Only the battery can be replaced.

## 3. Features

The WR-090 includes the following features:

- LED flashlight
- AM/FM with Weather Band Feature
- Weather Alert Feature
- Backlight digital display
- Clock

## 4. Getting Started

To packing materials consists of the following:

QTY	Item
1	WR-090 Emergency Weather Alert Radio
1	USB to mini USB converter cable
1	User Manual

Remove the battery door on the back of the WR-090 by pushing down on the tab. Insert fresh 3 x AAA batteries. The negative terminal of each battery must be in contact with the spring. Close the battery door and the WR-090 is ready for use.

## 5. Power Sources

The WR-090 can be powered from the following sources:

- DC power from a USB power source, such as a computer.
- AC power by adding a USB to AC adaptor (optional).
- DC car charger by adding a USB to DC car adaptor (optional).
- 3 x AAA Battery power (battery not included)

## 6. Operation

### 6.1 Flashlight Operation

Turn the light on and off with the light switch on the upper left side of the unit (Figure 1).

### 6.2 Radio Operation

The WR-090 includes a digital LCD display (Figure 2) with backlighting, with the following push button controls:

- **POWER.** Turns on and off the radio. Transitions from clock display to radio tuner display.
- **MODE.** Switches the radio band between AM, FM, weather band, and weather band alert mode.
- **TUN+:** Adjusts the radio frequency up
- **TUN-:** Adjusts the radio frequency down
- **VOL+:** Adjusts the radio volume up
- **VOL-:** Adjusts the radio volume down

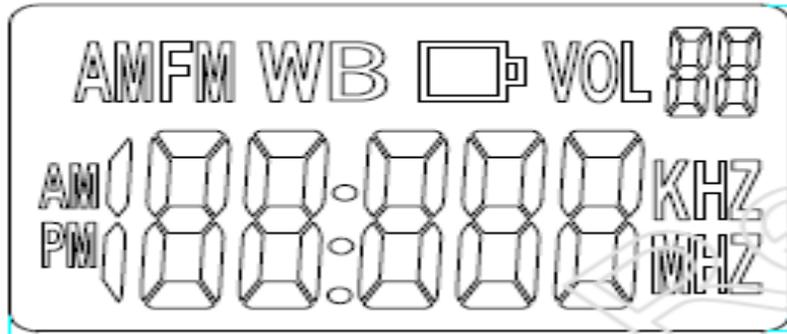


Figure 2

## 6.3 Time

When first powered up, the time will default to 12:00 AM.

1. **Set 12Hr/24Hr Mode.** Press and hold the **MODE** button for two seconds to enter the time setting mode. 12 Hr will begin flashing. Press the **TUN+** button to switch between 12 hour and 24 hour time mode. Press the **MODE** button to proceed to the next step.
2. **Set Hour.** Press the **TUN+** or **TUN-** to adjust the hour up or down. Hold the **TUN** button to change rapidly. Press the **MODE** button to proceed to the next step.
3. **Set Minute.** Press the **TUN+** or **TUN-** to adjust the minute up or down. Hold the **TUN** button to change rapidly. Press the **MODE** button to exit the time setting mode.

## 6.4 Radio Band Mode

**NOTE:** AM radio reception is dramatically reduced when charging from USB. Disconnect USB power when listening to the AM radio.

Press the **POWER** button to turn the radio on and transition from the time mode.

The radio will default to **FM** band (or the last radio band since power up). Press the **MODE** button to change to the **AM** band. Press the **MODE** button to change to the Weather Band (**WB**). While displaying the Weather Band, press and hold the **MODE** button for two seconds to change to Weather Band Alert mode (the **WB** symbol will begin flashing).

### 6.4.1 AM/FM Radio Tuning

When the radio is turned on, press the **TUN+** button to increase the frequency and press the **TUN-** button to decrease the frequency.

To auto scan, press and hold the **TUN** (+ or -) key for at least one second and the radio will automatically tune to next radio station with sufficient reception.

### 6.4.2 Weather Band Tuning

There are seven distinct weather channels. The frequencies are 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz and 162.550 MHz.

For a complete list of weather radio broadcasting stations, please visit the National Weather Service website:

[www.nws.noaa.gov/nwr/indexnw.htm](http://www.nws.noaa.gov/nwr/indexnw.htm)

Our recommendation is to tune to the station with the best reception using the **TUN+** button. You will hear the “voice of the National Weather Service”, and automated voice that provides forecast

information, weather statements, watches and warnings.

### 6.4.3 Weather Alert Mode

You can silence the radio and enter the alert mode. The radio will remain in standby mode until there is a weather statement, watch or warning. To activate the Weather Alert Mode, tune to your local station as defined in the previous section.

Press and hold the **MODE** button until the **WB** symbol begins flashing. The WB symbol will continue to flash until there is a weather statement, watch or warning. In the event of an alert, the alert light will flash and the radio will sound (with the voice of the National Weather Service). To disable the alert light, press any key. To disable the alert light but continue in alert mode, press and hold the **MODE** button to two seconds.

To verify you have reception in your area, the National Weather Service (NWS) normally run tests each Wednesday between 10 a.m. and noon local time. Tests may occur at other days and times when there is a threat of severe weather in the listening area or for other reasons.

### 6.5 Low Battery Indication

When the battery voltage is less than 3.0V, the low battery indication will be displayed:



The radio will not operate in a low battery condition.

## 7. Specifications

**Battery Power:**

3 x AAA batteries

**Radio Bands:**

AM: 525 KHz to 1710 KHz

FM: 88 MHz to 108 MHz

WeatherBand: 162.400 to 162.550 MHz

**Flashlight:**

LED Flashlight

**Size and Dimensions:**

Dimensions: 3.5" x 2.25" x 1.0"

Weight: less than 0.25 lbs.

**Temperature Range:**

Working temperature range: 32 to 131 °F (0 to 55 °C)

Storage temperature range: 14 to 140 °F (-10 to 60 °C)

## 8. Troubleshooting Guide

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

1. Email Support: [support@ambientweather.com](mailto:support@ambientweather.com)
2. Live Chat Support: [www.ambientweather.com/chat.html](http://www.ambientweather.com/chat.html) (M-F 8am to 4pm Arizona Time)
3. Technical Support: 480-283-1644 (M-F 8am to 4pm Arizona Time)

Problem	Solution
The Weather Band reception is poor.	<ul style="list-style-type: none"> <li>• Weather band reception can be poor inside a metal building, structure or where electronic noise is present. Try moving outside to improve</li> </ul>

Problem	Solution
	reception <ul style="list-style-type: none"> <li>• Check local reception by driving to a different location and testing the weather band reception.</li> <li>• Radio reception is dramatically reduced when charging from USB. Disconnect USB power when listening to the radio.</li> </ul>
I never receive weather alerts.	Verify you receive the test alert from the National Weather Service on Wednesday as described in the weather alert section of this manual. Verify you have tuned the weather band to your local area and you have reception before activating the Weather Alert feature. Make sure you have good weather radio reception. If your radio reception is poor, you will not receive any alerts.
How can I receive warnings only and not watches or statements?	Selective filtering of statements, watches and warnings is not possible. You will always receive all three levels.

## 9. Accessories

The following software and hardware accessories are available for the WR-090 at [www.AmbientWeather.com](http://www.AmbientWeather.com).

Accessory	Image	Description
<a href="#">Ambient Weather 90W1-29100 USB to AC Adaptor Converter</a>		Converts USB cable to AC power.
<a href="#">Ambient Weather 30W1-29100 USB to DC Car Charger Converter</a>		Converts USB cable to DC car charger.

## 10. 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 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.

## 11. 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 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) applications and uses that this product was not intended (5) the products inability to receive a radio signal due to any source of interference, metal obstructions or other reception issues.

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.

