

# **ALERT WORKS**

## **Emergency Alert Weather Radio Model EAR-10**



## **User's Guide**





## **Quick Start Instructions:**

- 1) **Batteries** - This weather radio operates on AC power or four (4) AA alkaline batteries (not supplied). To install batteries, remove battery hatch and insert batteries into the compartment on the underside of the unit.
- 2) **AC Power Adapter** - Plug the radio into a standard 120 volt outlet. Plug the AC adapter into the back of the radio at input marked DC 6V 300mA.
- 3) **Program the Time** - Press and release the **MENU** button. "TIME" will be displayed. Press and release the **SELECT** button. Use the **UP/DOWN** directional arrow buttons to set the hour. (Note AM/PM indicator.) Change to minutes by pressing the **RIGHT** directional arrow button, and use the **UP/DOWN** directional arrow buttons to set the minutes.
- 4) **Weather Radio Switch** - Ensure the unit is in weather radio mode by turning the switch on the left side of the unit to **ON**.
- 5) **Program the Weather/Hazard Channel for Your Area**
  - Turn switch on the top left side of radio to the **ON** position.
  - Press **MENU**.
  - Press **UP** directional arrow until "CHANNEL" is displayed.
  - Press **SELECT**.
  - Press **UP** directional arrow until you hear the broadcast of your station.
  - Press **SELECT** to save station selection.
  - Press **MENU** to close menu mode.
  - Press **WEATHER/SNOOZE** to turn Weather/Hazard broadcast on again.

*You are now able to receive weather alerts for your area and surrounding areas.*

*For the best possible reception, pull out the antenna and extend it to its full length above the weather radio.*

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## **Product Information:**

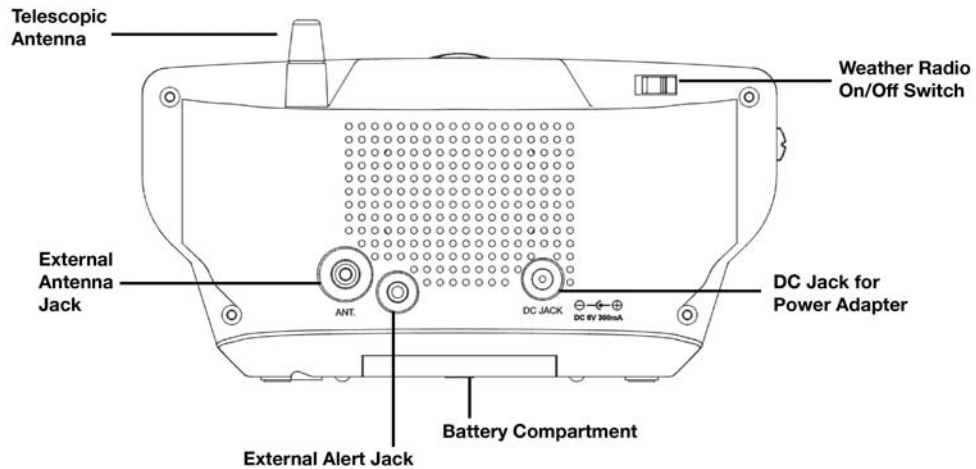
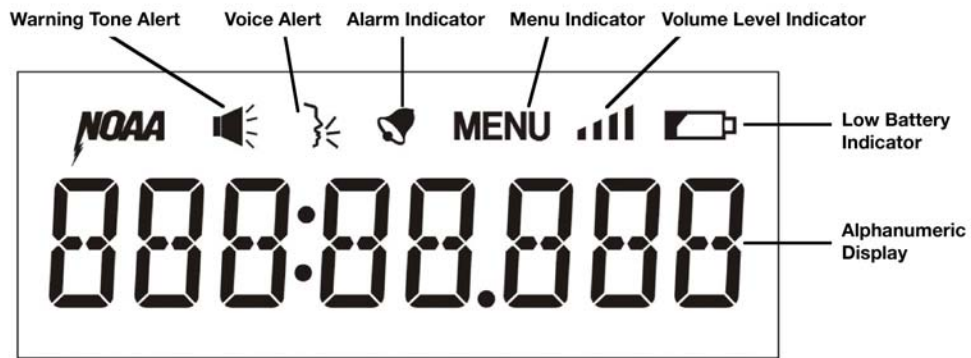
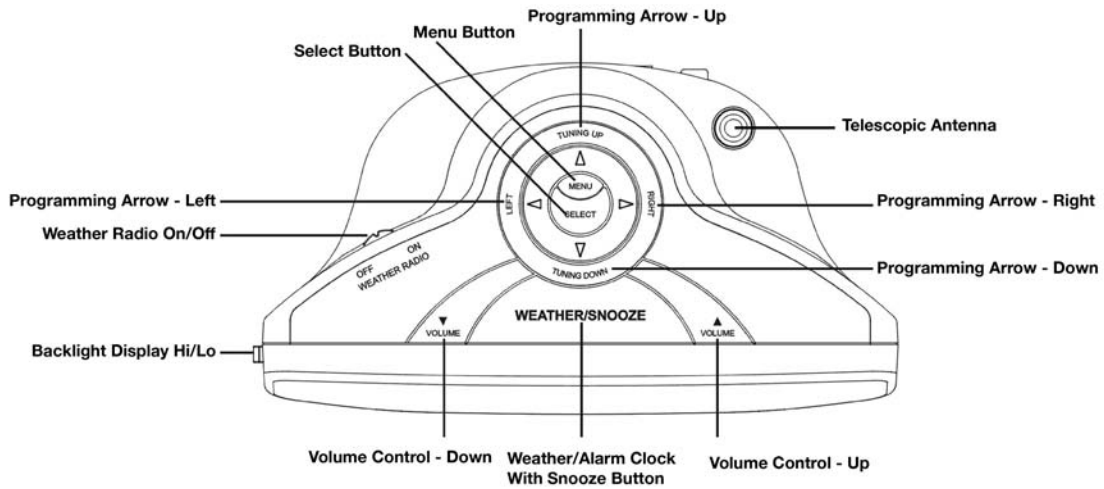
Thank you for choosing the Alert Works EAR-10 Emergency Alert Weather Radio. Your new weather radio is the latest in weather and hazard alert monitoring technology, providing you with the information needed to keep you safe. This weather radio has a special receiver that tunes to the 24/7 broadcast issued by the National Weather Service. The combined All Hazards/Weather Alert broadcast network is the single, most immediate source for comprehensive weather and emergency information available instantaneously to the public, in advance of TV and radio bulletins.

This Alert Works EAR-10 Emergency Alert Weather Radio has an innovative automatic alert system. In the event of special warning broadcasts, the radio is automatically activated along with a loud tone, an LED indicator, and an “alert” message in the LCD. Emergency weather bulletins include alerts about tornadoes, hurricanes, floods, ice/snow storms, and other severe weather. Other emergencies might include Amber alerts, hazardous explosions, fires, chemical spills, and other civil emergencies.

In addition, this weather radio has the Specific Area Message Encoding (S.A.M.E.) Digital Weather/Hazard Alert feature, providing you with constant monitoring of your local NWS broadcast. The S.A.M.E. decoding receiver allows you to hear only messages for the area(s) of concern to you. Now YOU can choose what information will be brought to you. No more will you be awakened to hear of a problem many miles from your home that will not affect you.

We encourage you to read this User’s Guide thoroughly before operating this radio. This manual is a valuable part of your new Alert Works EAR-10 Emergency Alert Weather Radio. Please see the “Quick Start Instructions” section of this manual for the initial weather radio setup and programming. After this weather radio is programmed and operating properly, store the manual in a safe place.

# Alert Works EAR-10 Emergency Alert Weather Radio Features and Controls:



## **Backlight Display:**

The switch on the left side of the unit controls the “Hi” or “Low” backlight display.

## **Programming Notes:**

- **Start Over** - If you want to start over while programming, press **MENU** continuously until the unit exits the programming mode.
- **If no program buttons are pressed** - for about one minute the weather radio will exit the menu mode.

## **Programming the Clock:**

- Press **MENU** to open the menu options.
- Press **UP** directional arrow to scroll through the menu until you see “TIME.”
- Press **SELECT**. (HOUR option will begin flashing)
- Press **UP** directional arrow until current hour is displayed. Note that AM/PM changes as you scroll through the hours.
- Press **RIGHT** directional arrow to save current hour and advance to minute settings.
- Program the minutes the same way as with the hours
- Press **SELECT** to store the current time. Press **MENU** to exit the programming mode.

## **Programming the Alarm:**

- Press **MENU** to open menu options,
- Press **UP** directional arrow to scroll through the menu until you see “ALARM.” Then press **SELECT**.
- Press **UP** directional arrow to display “ON”. Press **SELECT**. This will activate the alarm time options. You will see the alarm hour flashing.
- Press **UP** directional arrow to select the hour you want displayed. Note that AM/PM changes as you scroll through the hours.
- Press **RIGHT** directional arrow to save the alarm hour and advance to the alarm minutes. Program the minutes the same way as with the hours.
- Press **SELECT** to save the alarm time. The display will show “ON,” and the alarm icon will be displayed.
- Press **MENU** to exit the programming mode.

*To temporarily silence the sleep alarm, press **WEATHER/SNOOZE**. This will advance the alarm time by 9 minutes. To silence the alarm for the remainder of the day, press **MENU**.*

## **Specific Area Message Encoding (S.A.M.E.) County Codes:**

*In addition to your own county code, you can get the S.A.M.E. county code(s) for other counties close to you, especially the counties in the direction from which most of the storms come.*

*Determine the counties you are interested in. To acquire the S.A.M.E. county codes, contact one of the following:*

### **The National Weather Service Toll-Free Number**

1-888-NWS-S.A.M.E. or (1-888-697-7263)

*When you call the NWS toll-free number, automated instructions will guide you to the S.A.M.E. county code(s) you need. The number will be six digits long.*

- You will hear, “Welcome to the National Weather Service. You have reached the Specific Area Message Encoding Program Service.”
- If you select “touch-tone” to make your entries, you will be prompted to “identify” (enter) the name of your state.
- Next you will be prompted to “identify” (enter) the county name.
- Then you will hear, “Your geographic code is xxxxxx.” (This is your S.A.M.E. county code.)
- The system will then give you the option to enter another combination which enables you to get additional S.A.M.E. county codes.

### **The Internet Web Site of National Weather Service**

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

- At the left side of the page, click on “S.A.M.E. Coding.”
- Below the heading, “Explanation of NWR and S.A.M.E.”, click on “S.A.M.E. codes for states, counties, and territories.”
- Click on your state.
- Find your county, and record the “S.A.M.E. #” (the S.A.M.E. county code) that is listed to the right of your county, and for any other counties in which you are interested.



## **Programming S.A.M.E. County Codes**

### **Default Factory Setting of S.A.M.E. County Codes:**

Your Alert Works EAR-10 Emergency Alert Weather Radio comes preprogrammed to receive NWS weather and hazard alert transmissions for **all** S.A.M.E. county codes within range. If this is what you want, leave the radio set to “ANY.”

### **To Program a Single S.A.M.E. County Code:**

- Press **MENU** button to open menu options.
- Press **UP** directional arrow to scroll through menu options until “S.A.M.E. SET” is displayed; then press **SELECT**.
- Press **UP** directional arrow to scroll through “SINGLE”, “MULTIPLE”, or “ANY.”
- Display “SINGLE,” then press **SELECT**. “S.A.M.E. 01” will be displayed. *(Note if you are programming a single S.A.M.E. county code, only the “01” setting will be used.)*
- Press **SELECT**. Using the **UP** directional arrow, find the first digit of your S.A.M.E. county code. Press **RIGHT** directional arrow to save the digit and automatically advance to the next digit.
- Program all digits of your S.A.M.E. county code in the same way.
- Press **SELECT** to store your S.A.M.E. county code. Press **MENU** to close the programming menu.

### **To Program Multiple S.A.M.E. County Codes:**

- Press **MENU** to open menu options.
- Press **UP** directional arrow to scroll through menu options until “S.A.M.E. SET” is displayed; then press **SELECT**.
- Press **UP** directional arrow to scroll through “SINGLE”, “MULTIPLE”, or “ANY.”
- Display “MULTIPLE” to enter more than one S.A.M.E. county code. “S.A.M.E. 01” will be displayed, indicating you will be programming your first S.A.M.E. county code at weather radio menu location “01.”
- After programming your first S.A.M.E. county code, press **SELECT**, then the **UP** directional arrow to advance to “S.A.M.E. 02.” Program all of your S.A.M.E. county codes in the same way.

### Reviewing the S.A.M.E. County Codes You Have Programmed:

To review the S.A.M.E. county codes you have programmed into your weather radio, press **MENU** to open the programming menu, and follow the same sequence you used to program them.

### Adding New S.A.M.E. Event Codes:

Periodically the National Weather Service may find it necessary to add new alert codes to the system. The EAR-10 will allow the user to program up to five new S.A.M.E. event codes into the radio. The new S.A.M.E. message code is divided into three categories.



1. Event code (PIL code)
2. Display the text message on the LCD
3. Severity status of the event

The user must enter all three categories for the new S.A.M.E. message to function correctly. To add a new S.A.M.E. message code, please follow the following steps:

- Press the **MENU** button
- Press **UP** or **DOWN** button to show **ADD ALERTS** on the display.
- Press **SELECT** button to show **NEW 1 - - -** on display. The number **1** should be blinking on the display
- Press **UP** or **DOWN** button to choose a different new alert number or press **SELECT** button to make your choice
- To activate the first of the three categories below **NEW ALERT**, press **UP** or **DOWN** button and **LEFT** or **RIGHT** button to select the alphabet characters to spell the three character event code of the new alert
- Next press the **SELECT** button to show the upper line of the display which will display the message received. Eleven character spaces are available for the description. Press **UP** or **DOWN** button or **LEFT** or **RIGHT** button to choose the letters and spaces for the description
- Next press the **SELECT** button to choose the level of the event  
All event codes ending in an **A** should be entered as a **WATCH**  
All event codes ending in **W** should be entered as a **WARNING**  
All event codes ending in **S** or **E** should be entered as an **ADVISORY**

## **Alert Type (DISPLAY, VOICE, OR TONE):**

1. Press **MENU** to open menu options.
2. Press **UP** directional arrow to scroll through menu options until “ALT TYPE” (Alert Type) is displayed; then press **SELECT**.
3. Press **UP** directional arrow to scroll through the following (3) alert types: “DISPLAY”, “VOICE”, or “TONE.”

<b>Alert Type</b>	<b>Icon</b>	<b>Description of Tone Pattern</b>
“DISPLAY”	(none)	Text alert scrolls on display (no sound)
“VOICE”		The alert will sound for about 8 seconds; then you will hear the voice of the weather broadcast for about 5 minutes. If you want to listen longer, press <b>WEATHER/SNOOZE</b> .
“TONE”		Alert tones will sound for five minutes, or until you press any button —except <b>WEATHER/SNOOZE</b> which toggles to voice weather broadcast.

5. Press **SELECT** to choose the Alert Type you want.
6. Press **MENU** to exit menu programming mode.

## **ALERT OFF OPTION:**

Your Alert Work’s EAR-10 Emergency Alert Weather Radio allows you to program the radio to silence selected event codes in your area to minimize annoyance.

- Press **MENU** button to open menu options
- Press **UP** directional arrow to scroll through menu options until “**ALERTOFF**” is displayed
- Press **SELECT**
- Press the **UP/DOWN** directional arrow to select the event code that you wish to silence
- Press the **LEFT** or **RIGHT** directional arrow to set the selected event code to “ON or OFF”
- Press **MENU** to exit the programming mode

EVENT CODE	DESCRIPTION
ADR	Administrative Message
AVA	Avalanche Watch
AVW	Avalanche Warning
BWW	Boil Water Warning
BZW	Blizzard Warning
CAE	Child Abduction Emergency
CFA	Coastal Flood Watch
CFW	Coastal Flood Warning
DBA	Dam Watch
DMO	Practice/Demo
DSW	Dust Storm Warning
EVA	Evacuation Watch
FFA	Flash Flood Watch
FFS	Flash Flood Statement
FFW	Flash Flood Warning
FLA	Flood Watch
FLS	Flood Statement

EVENT CODE	DESCRIPTION
FLW	Flood Warning
FRW	Fire Warning
FSW	Flash Freeze Warning
FZW	Freeze Warning
HLS	Hurricane Statement
HUA	Hurricane Watch
HWA	High Wind Watch
HWW	High Wind Warning
IBW	Iceberg Warning
NAT	National Audible Test
NIC	National Information Center
NMN	Network Notification
NPT	National Periodic Test
NST	National Silent Test
POS	Power Outage Advisory
RMT	Required Monthly Test
RWT	Required Weekly Test

EVENT CODE	DESCRIPTION
SMW	Special Marine Warning
SPS	Special Weather Statement
SVA	Severe T-storm Watch
SVR	Severe T-storm Warning
SVS	Severe Weather Statement
TOA	Tornado Watch
TOE	911 Telephone Outage Emergency
TRA	Tropical Storm Watch
TXB	Transmitter Back Up On
TXF	Transmitter Carrier Off
TXO	Transmitter Carrier On
TXP	Transmitter Primary On
WFA	Wild Fire Watch
WSA	Winter Storm Watch
WSW	Winter Storm Warning
??A	Unrecognized Watch
??E	Unrecognized Emergency
??S	Unrecognized Statement

## **Alert Test:**

To test the alert function and ensure that it is working, press **MENU**, then the **UP** directional arrow until “ALT TEST” is displayed. Press **SELECT** to sound the alert. Press the **UP** directional arrow to silence the alarm. Press **MENU** to exit.

## **Test Signals Broadcast by the National Weather Service:**

All National Weather Service stations periodically transmit test signals. You can find out when your local NWS station broadcasts test signals by calling the NOAA National Weather Service Forecast Office (listed under ‘Weather’ in the Federal Government section of the telephone book).

During the weekly test signal, the local NWS station will give a list of counties covered by their transmitter. The NWS test signal allows everyone with weather radio receivers to verify the operation of their equipment.

The following test signals may be sent by the NWS during testing: required weekly test, required monthly test, system demo, and national periodic test.

During a test, the yellow advisory LED will illuminate and the test message will be visible on the display. The weather radio will not sound an audible alert or tone alert during this periodic NWS test.

## **Weather Channel Frequencies:**

<b>Channels preset on Weather Monitor</b>	<b>Broadcast Frequency (MHz)</b>
1	162.400
2	162.425
3	162.450
4	162.475
5	162.500
6	162.525
7	162.550

*You can find more information on weather frequency channels on the Internet website of National Weather Radio at [www.nws.noaa.gov/nwr/indexnw.htm](http://www.nws.noaa.gov/nwr/indexnw.htm).*

## **Troubleshooting:**

<b>Problem</b>	<b>Suggestion</b>
No power	Is AC Power Adapter securely plugged into both DC jack on back of weather radio and into wall outlet? If AC power has failed, are batteries installed?
No sound	Check VOLUME.
No weather broadcast when you press WEATHER/ SNOOZE button	<ul style="list-style-type: none"><li>• Ensure that telescoping antenna is up and fully extended.</li><li>• If you are using an external antenna, ensure that it is connected properly.</li><li>• Ensure that the radio is set to the NOAA weather channel in use in your area. Contact NOAA to ensure they are presently broadcasting.</li></ul>
The radio is not responding properly to NWS weather alert broadcasts	Check to see that you have programmed in the correct S.A.M.E. county code(s).

For assistance with your Alert Works EAR-10 Emergency Alert Weather Radio, contact: [questions@alert-works.com](mailto:questions@alert-works.com)

## **About NOAA, NWS, & S.A.M.E. County Codes:**

In 1994, the National Oceanic and Atmospheric Administration (NOAA) began broadcasting coded emergency signals that identify the specific geographic area (such as the county within a state) that is affected by an emergency. Until that time such specific emergency weather information was not available directly to the public. NOAA transmits the coded emergency signals using a technique called Specific Area Message Encoding (S.A.M.E.) The Alert Works EAR-10 Emergency Alert Weather Radio is designed to receive these S.A.M.E. county code transmissions.

The National Weather Service divides the United States by state and county (or parish) and assigns a six digit code number called a Federal Information Processing System (FIPS) code, also known as a S.A.M.E. county code.

You can program the Alert Works EAR-10 Emergency Alert Weather Radio with up to 25 S.A.M.E. county codes. The weather radio allows you to receive broadcast alerts for your own county, and/or up to 25 other counties. This will eliminate the broadcast of any alerts that are not within your area of interest.

When you program your S.A.M.E. county code(s) into the weather radio, you eliminate any alerts that are not within those counties. Warnings, watches and statements of weather and other area emergencies — about 50 different types — will activate the weather radio for only your programmed area(s).

The S.A.M.E. message the NWS sends contains information pertaining to the period for which the alert is valid. NWS can set the active time of the alert from 15 minutes to 6 hours. When the designated time has passed, the weather radio display message and light will automatically reset to their normal appearance.





## **Reviewing Recent Alerts:**

The Alert Works EAR-10 Emergency Alert Weather Radio can store up to 10 different Weather/Hazard alerts (with overlapping effective times) in its memory. If the weather radio receives a new alert while any previous alert is still in effect, it automatically displays the new alert. You can review all alerts still in effect by pressing the UP directional arrow to scroll through the weather radio's active alert memory. A double beep indicates the end of the list. "NO MESSAGE" will be displayed if no alerts are active.

## **ONE YEAR LIMITED WARRANTY:**

The Alert Works EAR-10 Emergency Alert Weather Radio is warranted to be free of defects in parts and workmanship for a period of one year from the date of purchase by its original owner. If this product is found to be defective, Alert Works will repair or replace the defective parts at no charge, excluding shipping costs, subject to the following conditions:

- Owner must request a return authorization from Alert Works. Please complete the warranty request form located on our website [www.alert-works.com](http://www.alert-works.com).
- Owner must include verification of the date of purchase when requesting Limited Warranty Service.

For questions, please email us at [questions@alert-works.com](mailto:questions@alert-works.com).

Website address: [www.alert-works.com](http://www.alert-works.com).

*This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.*

## **Out of Warranty & Product Service:**

*If your Alert Works EAR-10 Emergency Alert Weather Radio fails to operate properly, check the "Troubleshooting" section in this manual before returning it for service.*

Service Return Procedure:

- 1) Pack the unit in its original box and packing. Then pack the original box in a suitable shipping carton. Caution: Improper packing may result in damage to the unit during shipment.

- 2) Include the following:
  - Full description of any problems;
  - Money order for \$7.50 to cover return shipping and handling (may not be required in some states);
  - Daytime telephone number, name and address.
- 3) For warranty service, include a photocopy of the bill of sale from an authorized dealer or other proof of purchase **showing the date of sale**.
- 4) You do not need to return accessory items (AC/DC adapter, batteries, User's Guide) unless they might be directly related to the problem.
- 5) A flat rate of \$25.00 will apply to repairs not covered by warranty or on units that are over one year old or on units determined to be abused. Send only cashier's check, money order, Master Card or Visa card number. **DO NOT** send cash or personal check!

**Specifications:**

Specifications are nominal and subject to change.

**General**

Frequency Range

(162.40, 162.425, 162.45, 162.475, 162.50, 162.525, 162.55MHz)

Number of WX Channels .....7

Input Voltage.....6 Volts

DC Dimensions 7-3/4" W x 4-1/4" H x 4" D

**Receiver**

20 dB Quieting Sensitivity ..... 0.5 uV

FIPS County code Sensitivity at5kHz Dev 0.5uV

Channel Selectivity ..... ±25kHz, 60dB

Speaker Impedance..... 8 ohms

Speaker Output at10%THD ..... 200 mW max.

**FCC COMPLIANCE INFORMATION:**

**Alert Works Emergency Alert Weather Radio Model EAR-10, "S.A.M.E. Digital Weather/Hazard Alert Radio"**

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; (2) This device must accept any interference received including interference that may cause undesired operation.

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