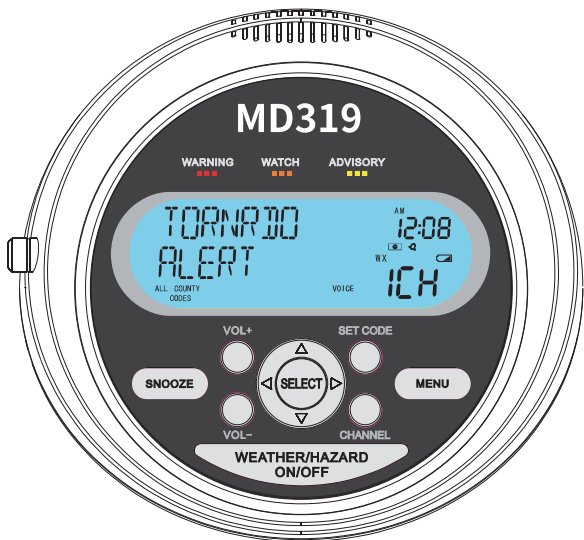


# All Hazards Weather Alert Radio MD319



## Owner's Manual

Thank you for purchasing our products. Please read this manual carefully before using this product. If you encounter any difficulties or problems during use, please contact us for further assistance.

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## Product Information

Thank you for choosing us! Your new MD319 weather radio is the latest in weather and hazard alert monitoring technology, providing you with the information needed to keep you safe. Your MD319 weather radio has a special receiver that adjusts to the 24/7 broadcasts issued by the National Weather Service. The Integrated All Hazards Hazard/Weather Warning Comprehensive Radio Network is the most direct single source for providing comprehensive weather and emergency information to the public.

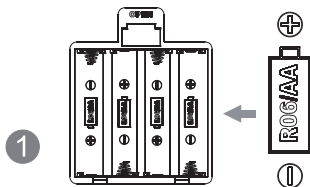
This MD319 weather radio has an innovative automatic alert system. In the event of a special warning broadcast, the radio is automatically activated along with a loud tone, a flashing LED indicator and an “alert” message on the LCD. Emergency weather bulletins include alerts about: tornadoes, hurricanes, floods, ice/snow storms and other severe weather. Other emergencies might include: Amber alert, hazardous explosions, fires, chemical spills and other civil emergencies.

In addition, this MD319 weather radio has the “S.A.M.E. Digital Weather /Hazard Alert” feature, providing you with constant monitoring of your localized NWS broadcast. The S.A.M.E. decoding receiver allows you to hear only messages for the area(s) concerning you. You now have a choice as to what information will be brought to you.

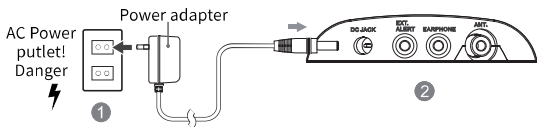
We encourage you to read this owner’s manual thoroughly before operating this radio. This manual is a valuable part of your new weather radio. See the “Quick Start Instructions” section of this manual for the initial weather radio setup and programming. After your new weather radio is programmed and operating properly, save the manual in a safe place for future reference.

## Quick Start Instructions

1. Place 4 AA batteries (not supplied) into the compartment on the underside of the radio (Note: batteries are important because they provide emergency power for the radio in case of a power outage).








2. Plug the AC adapter into a standard housing outlet. Plug the other end of the adapter into the DC jack on the back of the radio.

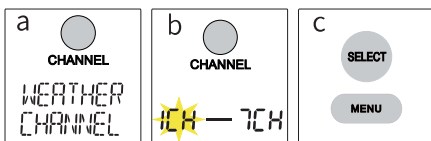


3. Pull out the antenna and extend it to the entire length above the weather radio.






4. Quickly program to the weather channel in your area.

- a. Press the "  **CHANNEL** " button to enter the "WEATHER CHANNEL" .
- b. Press the "  **CHANNEL** " button or "  " button to select the desired " channel " (WX:1CH-2CH-3CH-4CH-5CH-6CH-7CH)
- c. Press the "  " or "  " button to confirm and save the setting.  
Use the chart on page 3 of this user manual or visit <http://www.nws.noaa.gov/nwr/nwrbro.htm> to see the appropriate frequencies and channels for your area



5. Quickly program to the S.A.M.E code in your area.

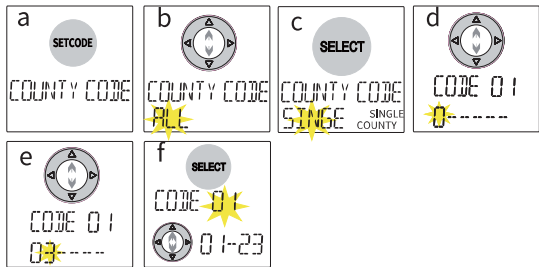
You can now receive weather alerts for your area and surrounding areas following the above operation. If you would like to narrow the alert to your county, you could quickly program the S.A.M.E. code as the following step:

- a. Press the "  **SETCODE** " button to enter the "COUNTY CODE"
- b. And then press the "  " button to scroll through "SINGLE", "MULTIPLE" or "ALL".
- c. Press the "  " button to choose the coding mode your need.

- d. If you choose the "SINGLE " or the "MULTIPLE ", please use the " / " button to scroll through the digits 0-9.
- e. Input the first digit, then press the " / " to save that selection and move to the next digit. And Continue programming all 6 digits in this way.
- f. When finished, press the " " button and your entered code will be saved. And then to program your next code,press the" / " button to go to the next code location.

Note:

1. In the "SINGLE" coding mode, Only 1 Code can be set.
2. In the "MULTIPLE " coding mode, you could scroll through code locations 1-23 to program different county codes via the " / " button. While displaying the location you want, then press the " "button. The first digit will start blinking.
3. If you would like to know more details about the operation, please visit the page 14 of the user manual.

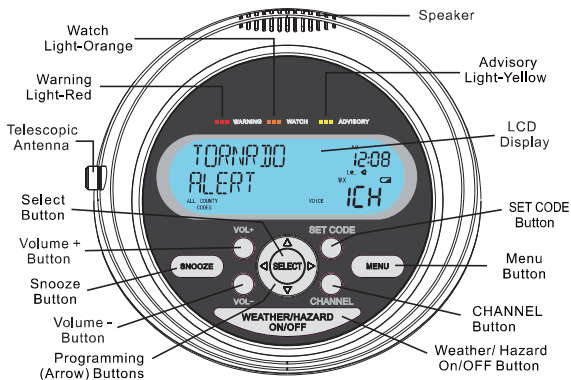


## Weather Channel Frequency

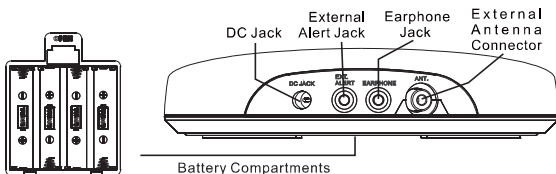
Channels Preset on the Weather Radio	Broadcast Frequency (MHz)
1CH	162.400
2CH	162.425
3CH	162.450
4CH	162.475
5CH	162.500
6CH	162.525
7CH	162.550

To get the S.A.M.E. code for your area, call 1-888-886-1227 or visit [www.weather.gov/nwr/counties](http://www.weather.gov/nwr/counties)

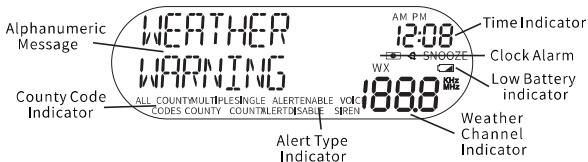
## Function Diagram:



## Accessory Jacks:



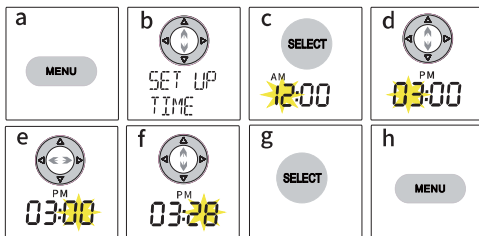
## Icons on the Display:



## Set up Time

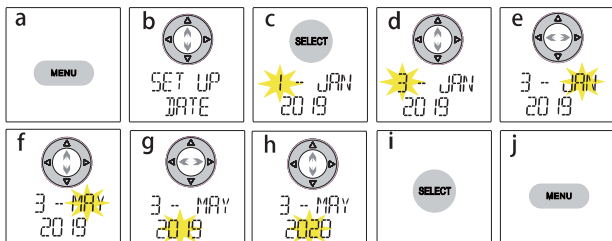
- Press the " **MENU** " button.
  - Press the " **▲/▼** " button until "SET UP TIME" is displayed.
  - Press the " **SELECT** " button, hour setting will begin to flash.
  - Press the " **▲/▼** " button to adjust the hour setting.
- (Note: the AM/PM setting cannot be manually changed; it changes automatically as you scroll through the hours).

- e. Press the " / " button, minute setting will begin to flash.
- f. Press the " / " button to adjust the minute setting.
- g. Press the "**SELECT**" button to save the time setting.
- h. Press the "**MENU**" button to exit the time setting.













## Set up Date

- a. Press the "**MENU**" button.
- b. Press the " / " button until "SET UP DATE" is displayed.
- c. Press the "**SELECT**" button, day setting will begin to flash.
- d. Press the " / " button to adjust the day setting.
- e. Press the " / " button, month setting will begin to flash.
- f. Press the " / " button to adjust the month setting.
- g. Press the " / " button, year setting will begin to flash.
- h. Press the " / " button to adjust the year setting.
- i. Press the "**SELECT**" button to save the date setting.
- j. Press the "**MENU**" button to exit the setting.

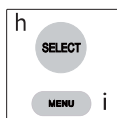
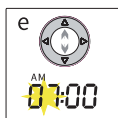
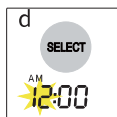
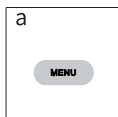


## Set up Alarm Time

- Press the " **MENU** " button.
- Press the "  /  " button until "SET UP ALARM" is displayed.
- Press the " **SELECT** " button to turn on the alarm via the "  /  " button, "ALARM ON " is displayed.
- Press the " **SELECT** " button, alarm hour setting will begin to flash.
- Press the "  /  " button to adjust the alarm hour setting.  
(Note: the AM/PM setting cannot be manually changed; it changes automatically as you scroll through the hours).
- Press the "  /  " button, alarm minute setting will begin to flash.
- Press the "  /  " button to adjust the alarm minute setting.
- Press the " **SELECT** " button to save the alarm time setting.
- Press the " **MENU** " button to exit the setting.





### Tips:

- You could select any button except " SNOOZE " to turn off the alarm, it will sound for 5 minutes if the alarm didn't turned off .
- Press the " **SNOOZE** " button, the "SNOOZE" icon will continue to flash until the alarm clock rings again after 9 minutes.






## Select Alert Mode





- Press the " **MENU** " button.
- Press the "  /  " button until "ALERT MODE" is displayed.
- Press the " **SELECT** " button, "VOICE(/SIREN/DISPLAY)" will begin to flash.
- Press the "  /  " button to choose the alert mode "VOICE(/SIREN/DISPLAY)".
- Press the " **SELECT** " button to save the alert mode setting.
- Press the " **MENU** " button to exit the setting.

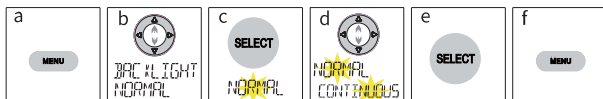


### NOTE:

- Select "VOICE", the alarm will last for 8 seconds and you will receive a 3-minute weather broadcast.
- Select "SIREN", the alarm will last for 5 minutes until you press the "  " button.
- Select "DISPLAY", only the " WARNING/WATCH/ADVISORY " light will be on.

## LCD Backlighting





- Press the " **MENU** " button.
- Press the "  /  " button until "BACK LIGHT" is displayed.
- Press the " **SELECT** " button, "NORMAL(/CONTINUOUS)" will begin to flash.
- Press the "  /  " button to choose the backlight "NORMAL(/CONTINUOUS)".
- Press the " **SELECT** " button to save the backlight setting.
- Press the " **MENU** " button to exit the setting.

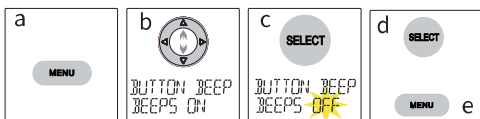


### NOTE:





- Select "NORMAL", when you press any button, the backlight will be turned on just for 5 seconds.
- Select "CONTINUOUS", the backlight will be turned on continuously.

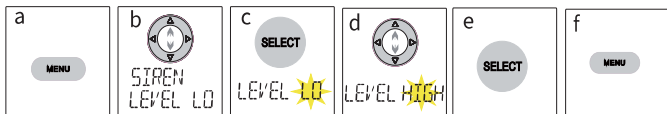
## Set up Button Beep

- Press the " **MENU** " button.
- Press the "  /  " button until "BUTTON BEEP BEEPS ON" is displayed.
- Press the " **SELECT** " button, choose "BEEPS ON or OFF" by the "  /  " button.
- Press the " **SELECT** " button to save the setting.
- Press the " **MENU** " button to exit the setting.




## Alert Siren Volume Setting

- Press the " **MENU** " button.
- Press the "  /  " button until "SIREN LEVEL LO" is displayed.
- Press the " **SELECT** " button, "LEVEL LO" will begin to flash.
- Press the "  /  " button to choose "LEVEL LO or LEVEL HIGH" volume.
- Press the " **SELECT** " button to save the setting.
- Press the " **MENU** " button to exit the setting.

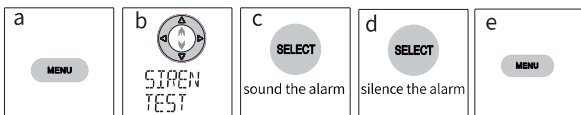


## Testing the Alert





- Press the " **MENU** " button.
- Press the "  " button until "SIREN TEST" is displayed.
- Press the " **SELECT** " button to sound the alarm.
- Press the " **SELECT** " button to silence the alarm.
- Press the " **MENU** " button to exit the setting.

Siren Test:

Siren are tested to ensure they are working properly.

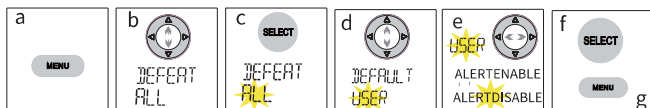


## Define Alert Mode

- Press the " **MENU** " button.
- Press the "  " button until "DEFEAT ALL/DEFAULT/USER" is displayed.
- Press the " **SELECT** " button "ALL" will begin to flash.
- Press the "  " button to select a different mode." ALL" is to turn on all options;"DEFAULT" is to turn on default options;"USER" is to turn on custom options.
- When in "USER" mode, press the "  " to select the different alerts and press the "  " button to set "ALERT ENABLE" or "ALERT DISABLE" status.  
(Tip: In "USER" mode, the alerts with "" symbol in the warning category are turn on by default.)
- Press the " **SELECT** " button to sound the alarm.
- Press the " **MENU** " button to exit the setting.

### NOTE:

By defining programming of the MD319 Weather Radio, you can choose to only receive certain weather emergency messages and alerts. Those messages which are not important for you can be programmed to display as one message.



## Selectable Alert Reference Chart

Event Code	Level	Default
Administrativemessage	Advisory	OFF
Avalanche Watch	Watch	OFF
Avalanche Warnin	Warning	OFF
Biological Hazard Warnin	Warning	On*
Boil Water Warning	Warning	OFF
Blizzard Warning	Warning	OFF
ChildAbductionEmergency	Advisory	OFF
Civil Danger Warning	Warning	On*
Civil Emergency Message	Warning	On*
Coastal Flood Watch	Watch	OFF
Coastal Flood Warning	Warning	OFF
Chemical Hazard Warning	Warning	On*
Contaminated Water Warning	Warning	On*
Dam Watch	Watch	OFF
Dam Break Warning	Warning	On*
Contagious Disease Warning	Warning	On*
Practice Demo	Advisory	OFF
DustStormWarning	Warning	OFF
Emergency Action Notification	Warning	On*
EmergencyActionTermination	Advisory	On*
Earthquake Warning	Warning	On*
Evacuation Immediate	Warning	On*
Evacuation Watch	Watch	OFF
Food Contamination Warning	Warning	On*
FlashFloodWatch	Watch	OFF
Flash Flood Statement	Advisory	OFF
FlashFlood Warning	Warning	OFF
Flood Watch	Watch	OFF
Flood Statement	Advisory	OFF

## Selectable Alert Reference Chart

Event Code	Level	Default
Flood Warning	Warning	OFF
Fire Warning	Warning	OFF
Flash Freeze Warning	Warning	OFF
Freeze Warning	Warning	OFF
Hurricane Statement	Advisory	OFF
Hazardous Materials Warning	Warning	On*
Hurricane Watch	Watch	OFF
Hurricane Warning	Warning	On*
High Wind Watch	Watch	OFF
High Wind Warning	Warning	OFF
Iceberg Warning	Warning	OFF
Industrial Fire Warning	Warning	On*
Local Area Emergency	Advisory	On*
Law Enforcement Warning	Warning	On*
Land Slide Warning	Warning	On*
National Audible Test	Advisory	OFF
National Information Center	Advisory	OFF
Network Notification Message	Advisory	OFF
National Periodic Test	Advisory	OFF
National Silent Test	Advisory	OFF
Nuclear Power Plant Warning	Warning	On*
Power Outage Advisory	Advisory	OFF
Radiological Hazard Warning	Warning	On*
Required Monthly Test	Advisory	OFF
Required Weekly Test	Advisory	OFF
Special Marine Warning	Warning	OFF
Special Weather Statement	Advisory	OFF
Shelter In-Place Warning	Warning	On*
Severe Thunderstorm Watc	Watch	OFF

## Selectable Alert Reference Chart

Event Code	Level	Default
Severe Thunderstorm Warning	Warning	OFF
Severe Weather Statement	Advisory	OFF
Tornado Watch	Watch	OFF
911 Telephone Outage Emergency	Advisory	OFF
Tornado Warning	Warning	On*
Tropical Storm Watch	Watch	OFF
Tropical Storm Warning	Warning	On*
Tsunami Watch	Watch	On*
Tsunami Warning	Warning	On*
Transmitter Backup On	Advisory	OFF
Transmitter Carrier Off	Advisory	OFF
Transmitter Carrier On	Advisory	OFF
Transmitter Primary On	Advisory	OFF
Volcano Warning	Warning	On*
Wild Fire Watch	Watch	OFF
Wild Fire Warning	Warning	On*
Winter Storm Watch	Watch	OFF
Winter Storm Warning	Warning	On*
Extreme Wind Warning	Warning	OFF
Snow Squall Warning	Warning	OFF
Storm Surge Warning	Warning	OFF
Storm Surge Watch	Watch	OFF
Unrecognized Watch	Watch	OFF
Unrecognized Emergency	Advisory	OFF
Unrecognized Statement	Advisory	OFF
Unrecognized Warning	Warning	On*
Unrecognized Message	Advisory	On*

# Programming County Codes

## 1. Programming Notes

This MD319 can be programmed up to 23 different S.A.M.E. codes. You can select only your county and surrounding counties. It ensures that you only receive alerts for your county.

## 2. Getting S.A.M.E. County Codes

a. The National Weather Service Toll-Free Number provides S.A.M.E. County Codes at: 1-888-NWS-S.A.M.E. (1-888-886-1227)

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."
- Next you will be prompted to enter your county name.
- Then you will hear, "Your geographic code is XXXXXX." (This is your S.A.M.E. County Code.)

b. The Internet Web Site of National Weather Service: <https://www.weather.gov/nwr/counties>

When you pull up this URL, you will see a list of states.

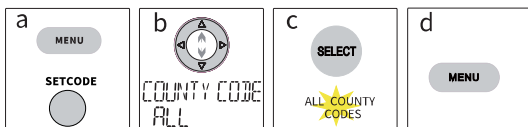
- Click on your state.
- Find your county, and record the S.A.M.E. number listed next to your county.

## 3. S.A.M.E. Create the code as follows:

- The first number is the subcounty code - currently "0" in most areas.
- The second two digits represent the state code.
- The last three digits represent the county code.

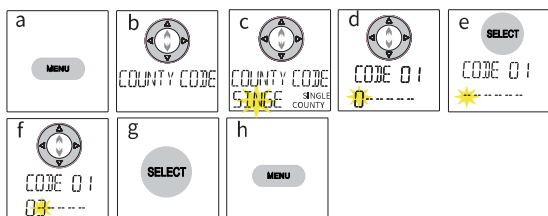
## 4. "ALL" County Codes:

The MD319 weather radio is preprogrammed to receive NWS weather and hazard alert transmission for all S.A.M.E. county codes within range. If this is what you want, turn the radio to "ALL". This is the default setting.



## 5."SINGLE" County Codes(Only 1 Code can be set)

- Press the " **MENU** " button.
- Press the " / " button until "COUNTY CODE" is displayed.
- Press the " **SELECT** " button and then the " / " to scroll through "SINGLE ", "MULTIPLE " or "ALL ".
- Display "SINGLE" , then press the " **SELECT** "button.
- Use the " / " button to scroll through the digits 0-9. Input the first digit then press the " / " to save that selection and move to the next digit.
- Continue programming all 6 digits in this way.
- When finished, press " **SELECT** "button and your entered code will be saved.
- Press the " **MENU** "button to exit programming.

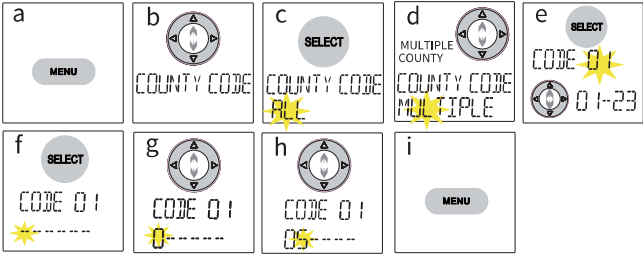


## 6."MULTIPLE" County Codes(23 Codes can be set)

- Press the " **MENU** " button.
- Press the " / " button until "COUNTY CODE" is displayed.
- Press the " **SELECT** " button and then the " / " to scroll through "SINGLE ", "MULTIPLE " or "ALL ".
- Display "MULTIPLE" , then press the " **SELECT** "button.
- Use the " / " button to scroll through code locations 1-23. You are able to program up to 23 different county codes into your MD319 weather radio.
- Display the location you want, then press the " **SELECT** "button. The first digit will start blinking.
- Use the " / " button to scroll through the digits 0-9, Input the first digit, then press the " / " to save that selection and move to the next digit.

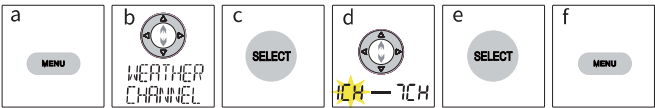


- h. When finished, press the " **SELECT** " button and your entered code will be saved.
- And then to program your next code, press the " / " button to go to the next code location.
- i. When you have entered all your desired codes, press the " **MENU** " button to save your settings.




## Set the Weather Channel

- a. Press the " **MENU** " button.
- b. Press the " / " button until "WEATHER CHANNEL" is displayed.
- c. Press the " **SELECT** " button.
- d. Press the " / " button or " **CHANNEL** " button to manually scroll to the desired channel (Find the channel for your area by visiting [https:// www. weather.gov/nwr/counties](https://www.weather.gov/nwr/counties) and reviewing the corresponding frequency and channel for your area using the chart on page 3 of this Owner' s Manual).
- e. Press the " **SELECT** " button to sound the alarm.
- f. Press the " **MENU** " button to exit the setting.





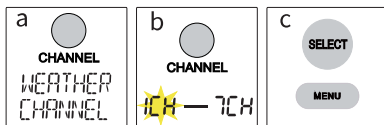
## One Click to Set Channel:

a. Press the "  CHANNEL " key to enter the "WEATHER CHANNEL" option.




b. Continue to press the "  CHANNEL " key to select the desired "channel".  
(WX: 1CH-2CH-3CH-4CH-5CH-6CH-7CH)

Use the chart on page 3 of this user manual to visit <http://www.nws.noaa.gov/nwr/nwrbro.htm> to see the appropriate frequencies and channels for your area.



c. Press the "  " or "  " button to confirm and save the settings.



## Set up Volume

Press the "  " button to turn on the radio, and press the "  VOL+ /  VOL- " button to adjust to the appropriate volume from the 20 volume levels.

## Reveiwing Alerts

The weather radio can store 20 different alerts (with overlapping effective times) in the memory. If radio receives a new alert while the previous alert is still effect, it automatically display the new alert description. To view the past alerts that are still effect, press the "  /  " button to scroll through the last 20 alerts. If there are no alarms, "NO MESSAGE" is displayed.

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 t he counties covered by their transmitter. The NWS test signal allows everyone with weather radio receiver to verify the operation of their equipment.

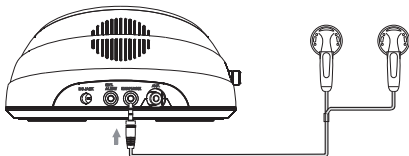
The following test signals may be sent by the NWS during testing: **required weekly tests, required monthly tests, system demo, and national periodic tests.**

Note: If you can't find a signal, keep your radio near a window and away from fluorescent lights.

## Use of Earphone

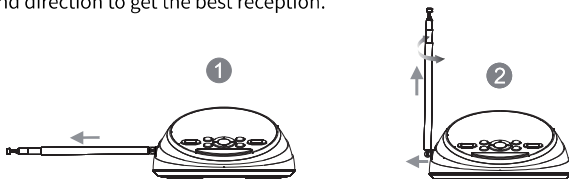
This radio is designed with an "EARPHONE" port. To avoid affecting others, just insert the earphone to the jack.

Note: When in weather alert mode, please unplug the earphones to receive the weather alert information.



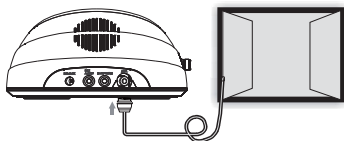
## Use of Antenna

1. When listening to WX radio, this unit uses a pull-rod antenna to receive broadcasts. When listening, please pull out the telescopic antenna, and change its length and direction to get the best reception.



### Outdoor Antenna:

In remote areas, the transmit signal coverage is weak. In order to improve the reception sensitivity, the machine is designed with "External Antenna Connector" interface, connect the soft antenna (accessory) to the ANT interface end, and the other end can be extended to the window or outdoor.



### Accessories

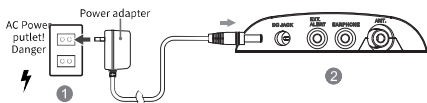
#### External Alarm Flash:

In remote areas, the transmit signal coverage is weak. In order to improve the reception sensitivity, the machine is designed with "External Antenna Connector" interface, connect the soft antenna (accessory) to the ANT interface end, and the other end can be extended to the window or outdoor.

# Use of Power / Dry Batteries

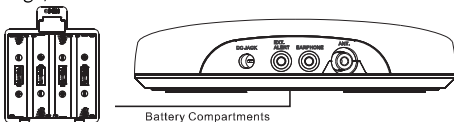
## 1. Instructions for using power supply (main power supply)

- Plug the AC adapter into a standard housing socket. Simply plug the other end of the adapter into the DC jack (DC JACK) on the back of the radio.
- The power adapter is used as the main power supply for the product and can work 24 hours a day. (The power adapter has built-in temperature fuse protection so please feel free to use it).
- AC adapter and battery power can be installed and used at the same time, the machine will automatically identify the priority use of DC JACK power supply. When there is a power failure in AC, the battery power will automatically renew.



## 2. Instructions for using batteries (backup power)

- Place four AA batteries (not supplied) in the compartment at the bottom of the radio as indicated by positive and negative polarity. (Note: The batteries are important because they provide emergency power for the radio in the event of a power outage).



- When the battery voltage is lower than 4.5V, the low voltage symbol will prompt, please be ready to replace the battery.
- When the display is blurred, the sound is distorted or cannot be received normally, it means the power is seriously insufficient, please replace the battery. To avoid losing the set information data after power failure.
- Battery power can be installed and used at the same time with the AC adapter, and the machine will automatically recognize the priority of using DC JACK power supply. When there is a power failure of AC, the battery power will be renewed automatically.



## Cautions

1. When the battery power is insufficient to replace the battery, please connect the adapter power to DC JACK for use, and replace the battery under the normal power supply of DC JACK interface. The machine can not replace the battery in the case of power failure, otherwise the information data set will be lost.
2. The product is recommended to use the DC JACK interface power supply as a priority. The battery is used as a backup battery.
3. When the battery voltage is lower than 2.5V, the machine will be automatically shut down and reset, and the setting information data will be lost.

## Technical Indicators

1. Frequency Range:  
WX1:162.400 MHz WX2:162.425 MHz  
WX3:162.450 MHz WX4:162.475 MHz  
WX5:162.500 MHz WX6:162.525 MHz  
WX7:162.550 MHz
2. Noise-limited sensitivity:  
WX: 20dB, higher than 0.5 $\mu$ V in the noise-limited sensitivity
3. Signal-to-noise ratio:  
WX: 162.475 MHz  $\geq$ 45dB $\mu$
4. Max current consumption:  $\leq$ 400mA
5. Maximum output power:  $\geq$ 0.1W
6. Maximum distortion:  $\leq$ 10%
7. Speaker specification:  $\Phi$ 57MM 8 $\Omega$ 0.5W
8. Input voltage: DC12V AA 1.5V\*4
9. Body size: 75X143X152mm
10. Net weight: 550g

## Warranty

This weather radio has a full **12-month** warranty against manufacturing defects from the date of purchase.

## Safety Instructions

1. Avoid violent shocks or falling to the ground.
2. Do not expose it to direct sunlight, high temperature or humidity.
3. Cassettes, magnetic cards and other magnetic recording software should be placed away from the body speaker to prevent the recordings from being erased or noise on the cassette.
4. If there is any debris falling into the radio, please check it with qualified maintenance personnel before use.
5. When cleaning the case, wipe it with a soft cloth dampened with detergent solution. Never use strong solvents such as alcohol, thinner to clean.
6. When walking or driving, please try not to use the earphone to avoid traffic accidents.
7. Do not pull or fold the earphone cord, which may cause the copper wire inside the earphone cord to break.
8. Keep listening at the proper volume so that you can pay attention to your surroundings while listening to ensure safety.
9. In dry and cold seasons, items such as chemical fiber, silk that are prone to static electricity may affect or damage the sensitive elements inside the radio.
10. This radio is provided with corresponding protective measures, but please try to avoid rubbing it with the above items.

**The damages to the radio caused due to static electricity are as follows:**

1. Garbled buttons with abnormal display;
2. Significant performance decline in reception of FM signals.

## Package List

Weather Radio x 1  
Power Adapter x 1  
External Alert Flashing Light x 1  
External Antenna x 1  
User Manual x 1

## FCC Warning

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.