

# **PRODUCT INFORMATION**

The WR-10 Weather Max gives you two products in one. You have a combination AM/FM broadcast radio. You also have a 24-hour a day National Weather Service monitor. A complete information system in the palm of your hands.

The Weather Max has a full tone alert signaling system built in. When the National Weather Service issues an emergency report, they transmit a special tone. This tone is picked up by your WR-10 to provide you instant emergency weather information. Your WR-10 will advise you of special weather warnings even if you are listening to standard AM or FM broadcasts.

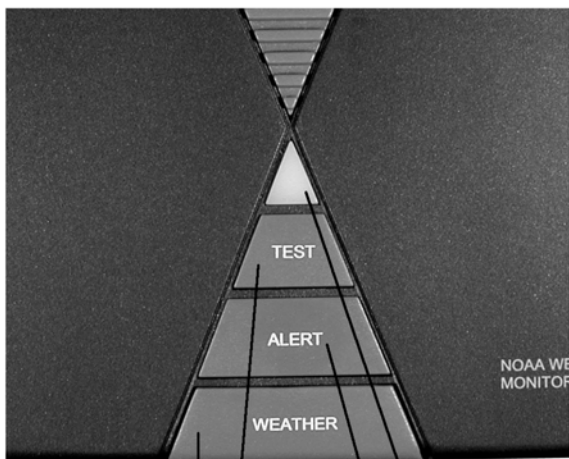
The WR-10 has an emergency battery backup system for use if you lose power. It will provide up to six hours of operation if power fails. It also allows the WR-10 to be used as a temporary portable to take on trips, picnics to the beach, etc.

The WR-10 provides a new concept in high performance Weather Monitors combined with the information and entertainment of an AM-FM radio.

## FEATURES:

- VHF Weather Monitor with seven different National Weather Service channels in the 162 MHz FM band – Provides 24-hour-a-day National Weather Service information from seven different channels for maximum reception possible (in areas where available)
- AM-FM Reception – Receives standard AM and FM commercial broadcast stations.~ Special system interrupts broadcast reception for emergency weather warnings.
- Alert monitor system receives special tones transmitted by National Weather Service stations warning of dangerous weather conditions – When the alert feature is activated, the receiver remains in a standby mode. As special tones are received, the receiver automatically activates itself to warn you of dangerous weather conditions.
- User-selectable warning system – Your choice of led only, led & alarm or voice only
- Weather Button – large touch-bar turns unit from alert mode to full time monitoring.
- High Performance Chassis – Receives weather broadcasts up to 50 miles from transmitter.
- Test Button – Permits testing of alert system.
- Large Top-Firing Speaker – Directs alerts and audio toward listener.
- Emergency Powered – Uses a single 9-volt battery (optional). -Makes unit completely portable.
- Telescopic Antenna – Provides maximum range reception-up to 50 miles-folds down for easy transport.
- Fully Variable Volume Control – Adjusts audio output.
- External Antenna Jack – Permits use of an optional extended range base antenna or a mobile antenna.
- External Power Jack – Allows use of AC adapter (included) or DC cigarette lighter power cord (optional) to run off a car or boat battery.
- Compact, Ultra Modern Styling – Small enough to take along; looks good anywhere.
- External Alert Jack – Allows control of other alerting devices.

CONTROLS:



1 2 3 4

AM-FM mode it also acts as the on switch for the AM-FM radio if you have activated the weather receiver.

- 4. Alert LED Indicator – This light emitting diode visual indicator tells you when the unit is in the alert mode. It is normally a steady light. If an emergency broadcast is received this indicator will pulse on and off.



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- 1.
- 2. Alert Test Button – This is a momentary switch bar. Pressing and holding it down lets you check to see that your WR-10 tone coded alert system is operating. A loud siren-type sound will be emitted from the speaker if the ALERT switch is set to LED & ALARM.

- 3. Alert Bar Button – This is a push on switch. It switches the special alert tone coding system on so you can receive emergency weather broadcasts. In the

- 5. Tuning Dial – This dial lets you select AM or FM stations

- 6. WX-AM-FM Mode Switch – Lets you select AM broadcasts, FM broadcasts or weatherband broadcasts

- 7. Telescopic Antenna – Extends fully for best reception.



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- 8. Off/On/Volume Control – This is the volume control and the main power switch. It lets you adjust volume to the desired listening level.

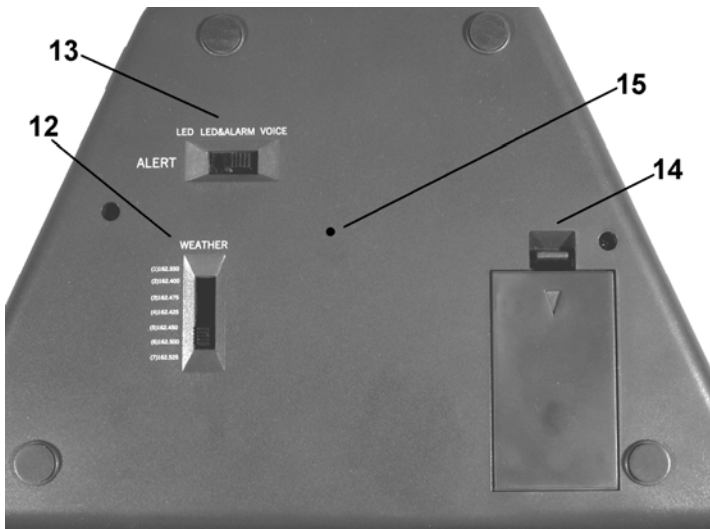
- 9. External Alert Device Jack – Allows connection of external alerting devices such as X-10.

- 10. External Antenna – Allows you the option to plug in an optional external antenna for better reception inside your home or car, or from distant weather stations.

- 11. Power Jack – A power jack is located on the side of the unit for use with an AC adapter or optional 12 Volt adapter.

- 12. Weather Channel Selector Switch – Allows you to select the proper weather channel for your area. This switch is recessed on the bottom of the unit and

once set, no further adjustment is necessary for home use.



13. Alert Mode Selector – Your WR-10 has three different alert modes:

A) LED Only – When an emergency alert tone is received AM-FM broadcast radio reception will be muted and ONLY the LED warns you.

B) LED and Alarm – When an emergency broadcast is received the LED will flash and a loud siren sound will be emitted. The broadcast radio reception will also be muted.

C) Voice – The unit will be silent in WX mode. When an emergency broadcast is received, it will turn your WR-10 audio system on so the voice of the weather station can be heard. In AM or FM mode, the broadcast radio reception will also be muted so the voice of the weather station can be heard.

14. Battery Compartment – Holds the 9-volt back-up battery. Alkaline or lithium batteries are recommended. Do not use rechargeable batteries. The WR-10 is not equipped with charge capabilities.. Battery is optional.
15. Reset switch

## EMERGENCY POWER

Remove the battery cover. Turn the unit over. Remove the cover by pushing the battery door in the direction of the arrow and lifting the battery cover away from the radio. Install a 9-volt Alkaline battery (Eveready 522 or equivalent, not supplied). Observe the battery polarity (+ and -). Replace the battery cover. (Power adapters will not charge the battery.)

## INITIAL SETUP

Set the controls and switches as follows:

VOLUME/POWER – Advance the control about half way.  
WX-AM-FM SELECTOR – to FM  
WX 1 - - - WX7 SWITCH - to (1) 162.550  
ALERT SWITCH - to LED & ALARM

Now, fully extend the telescopic antenna. Next, remove the AC Wall Adapter from the package. Plug the wall adapter into a 110-115 Volt AC (standard house current) outlet. Plug the other end into the "DC-12V" jack of your WR-10

## AM/FM OPERATION

From the above steps, we are set to listen to FM stations. If you desire to listen to AM stations, set the WX--AM--FM selector switch to the AM position now.

1. Advance the POWER/VOLUME ON/OFF switch toward the top of the radio. Continue rotating it about one half of the way.
2. Slide the TUNING button to receive the desired station.
3. Readjust the volume to desired listening levels.
4. Position the telescopic antenna for best FM reception. On AM, the antenna is built into the cabinet. Rotating the cabinet itself can improve AM signal reception.

You will notice the "ALERT" light comes on when power is supplied. Your WR-10 is listening for EMERGENCY signals from the Weather Service. We have not adjusted the weather frequency for your local area. Look up your city or a major city near you in the supplied Weather Service directory and set the switch on the bottom of your unit to the frequency listed. To test for weather signals, simply press the WEATHER bar on the top of your 74-105XL. This will switch the WR-10 from AM or FM to receive the Weather broadcast. To return to AM or FM reception, press the "ALERT" button.

Once you have adjusted the weather frequency and are receiving weather broadcast stations, your WR-10 will automatically switch from AM or FM reception to the Weather mode if the weather Service sends the special tone to warn you of dangerous weather conditions. The setup procedure previously set your radio to "SIREN" mode. You may also select a "VOICE" mode or a silent LED mode. See the instructions under the ALERT mode section for adjusting this mode.

NOTE: The National Weather Service operates Weather Broadcast systems covering a large area of the United States. Some areas are not included. Check the directory enclosed for weather broadcast availability.

Your WR-10 can receive broadcasts from the Weather Stations up to 50 miles. Hills and certain terrain can reduce reception. An external antenna can improve range. If your city is listed as having a Weather Service Station but you do not receive it please call your local Weather Service to confirm they are broadcasting (Sometimes these stations are shut down for maintenance). If your local Weather Service is transmitting and you are not receiving the broadcasts, you may need an outdoor antenna.

### WEATHERBAND OPERATION

Follow the "INITIAL SETUP" instructions except put the WX – AM – FM switch to the Weather (WX) position.

1. Set the WX-AM-FM mode switch to the WEATHER (WX) position.
2. Lift the antenna from its resting position to a vertical position and extend it fully for best reception.
3. Turn the OFF/ON/VOLUME control on and set the volume to about the midpoint, The ALERT indicator (LED) should be lit indicating the unit is in the ALERT Mode and turned on.
4. Press the WEATHER button to exit the ALERT Mode (ALERT LED should turn off).
5. Set the CHANNEL selector switch on the bottom of the unit to the channel indicated from the NOAA Weather Radio Network chart inserted in this owner's guide for the location of the weather radio station nearest you.
6. Reset the VOLUME control to the desired listening level.
7. When you are finished listening to the WEATHER information, reset the radio to the ALERT MODE, (or AM-FM MODE), by pressing the ALERT button. The ALERT indicator LED will again light showing you are in the ALERT Mode. If you desire the AM or FM Mode, move the MODE SELECTOR to AM or FM and press the ALERT button. Now in the event of a weather emergency, the National

Weather Service will broadcast a special electronic triggering signal for 10 seconds that causes the siren alarm to turn on, at which time the alert indicator will flash (provided the ALERT Mode selector switch is in the LED & ALARM position). Your AM or FM reception will be interrupted and the siren will sound for 10 seconds warning you that emergency weather information is being broadcast. The ALERT indicator will flash until you press the WEATHER Button for emergency weather information.

8. The ALERT Mode selector switch on the bottom of the unit allows you other alert modes without the siren.

- LED position, only the LED flashes when the National Weather Service transmits the special emergency signal.
- VOICE position the unit lets you hear voice only from the weather station for 5 minutes without pressing the WEATHER Button. After 5 minutes, the WR-10 will reset to the AM-FM or WEATHER Mode, ready to receive the next emergency signal. During the weather report, you can reset the unit before the 5 minute period is up by pressing the ALERT Button.
- LED & ALARM position the LED will flash and the siren will sound.

NOTE: The ALERT Mode setting will determine the type of alert you get while on AM or FM reception as well.

9. Anytime the unit is in the WEATHER ALERT Mode, you can test the alert function by pressing the TEST Button. Depending on the position of the ALERT Mode selector switch, the unit will either let you hear the voice weather report, or the siren will sound and the LED will flash, or just the ALERT LED will begin flashing. After testing the alarm, be sure to return the unit to the ALERT Mode by pressing the WEATHER bar and then the ALERT bar.

# NOTES AND MAINTENANCE

1. The typical weather(162MHz) reception distance will range from 25-50 miles depending on your location and conditions of weather, terrain, etc. Also, some Weather Stations operate at much higher power levels than others and have their transmitting towers on the top of high buildings or hills. For better reception from greater distances, an external antenna can be used. To use an external antenna, you must have an antenna with an RCA plug or an adapter to RCA plug to connect into the side of the WR-10. If reception in your area is not good, check with your local dealer for assistance and ask about typical reception range in your area. Also try different locations in your home or office to find a place that has good reception.
2. If Weather Stations cannot be heard on any channel, contact your local National Weather Service office to verify that the station is on the air and also verify the CHANNEL (Frequency) and location of the weather station.
3. All National Weather Service stations periodically transmit an Alert test signal. Some broadcast only once a week, and others more often. You can always find out when the test signal is broadcast by calling the U.S. Weather Service's phone number for your local NOAA station.
4. Mobile home reception is difficult due to the metallic structure preventing reception. Put your WR-10 near a window. If this doesn't provide reasonable reception-then a outside antenna must be used. One suggested antenna is the Midland 18-259W VHF through-glass antenna.

## PORTABLE OPERATION

Your WR-10 can be used as a portable (picnics-at the beach, boating, camping, etc.) A fresh battery will last about 6-8 hours.

## 12 VOLT OPERATION

Your WR-10 can be powered from any 12 Volt CAR-TRUCK-RV-or BOAT battery. An optional (Model 18-235) power cord adapter is available from Midland.



# SPECIFICATIONS

Specifications are nominal and subject to change.

## GENERAL

Frequency Range	AM 510-1650KHz FM 88-108MHz WX 162MHz (162.40, 162.425, 162.45, 162.475, 162.50, 162.525, 162.55MHz)
Number of WX Channels	7
Input Voltage	9-14 Volts DC
Dimensions	217Wx 41Hx155MMDeep (8 <sup>5</sup> / <sub>8</sub> x 1 <sup>5</sup> / <sub>8</sub> x 6 <sup>1</sup> / <sub>8</sub> )

## RECEIVER

AM Max Sensitivity	60 dB/M
FM 30 dB Quieting Sensitivity	20 uV
WX 20 dB Quieting Sensitivity	1.5 uV
Alarm Trip Sensitivity	1.5uV
Speaker Impedance	32 ohms
WX Rejection at 96.6 or 97.7MHz	70dB max.
10% THD Power Output	210 mW max.

## FCC Compliance Information

Midland WT-5 Weather Station

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received including interference that may cause undesired operation.

For compliance information contact:

Midland Consumer Radio

1670 N. Topping

Kansas City, MO 64120

Tel: (816) 241-8500

NINETY DAY LIMITED WARRANTY

**Midland Consumer Radio Inc.** will repair or replace, at its option without charge, your **WR-10** weather alert radio which fails due to a defect in material or workmanship within ninety days following the initial consumer purchase.

This warranty does not include any antennas, prior service attempts, liquid damage, abuse or misuse.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, along with a copy of the original sales receipt, to Midland Consumer Radio Inc., Warranty Service Department, 1670 North Topping Avenue, Kansas City, Missouri 64120, or to the place of purchase (if a participating dealer).

Warranty information may be obtained by writing Midland Consumer Radio, Warranty Service Department.

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

**Note:** The above warranty applies only to merchandise purchased in the United States of America or any of the territories or possessions thereof, or from a U.S. Military exchange. For warranty coverage on merchandise purchased elsewhere ask your dealer.

Midland Consumer Radio  
1670 N. Topping  
Kansas City, Mo. 64120  
Tel: (816) 241-8500

URL: [www.midlandradio.com](http://www.midlandradio.com)

E-mail: [mail@midlandradio.com](mailto:mail@midlandradio.com)

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