MIDLAND®

NOAA WEATHER SERIES

PORTABLE CRANK EMERGENCY ALERT RADIO

OWNER'S MANUAL

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Welcome to the World of Midland Electronics

Thank you for choosing the ER310PRO from Midland Radio Corporation. Please read through this manual thoroughly to ensure you get peak performance from your radio. Built with emergency situations in mind, the hand crank digital weather alert radio and flashlight are perfect for severe weather situations, or daily use.
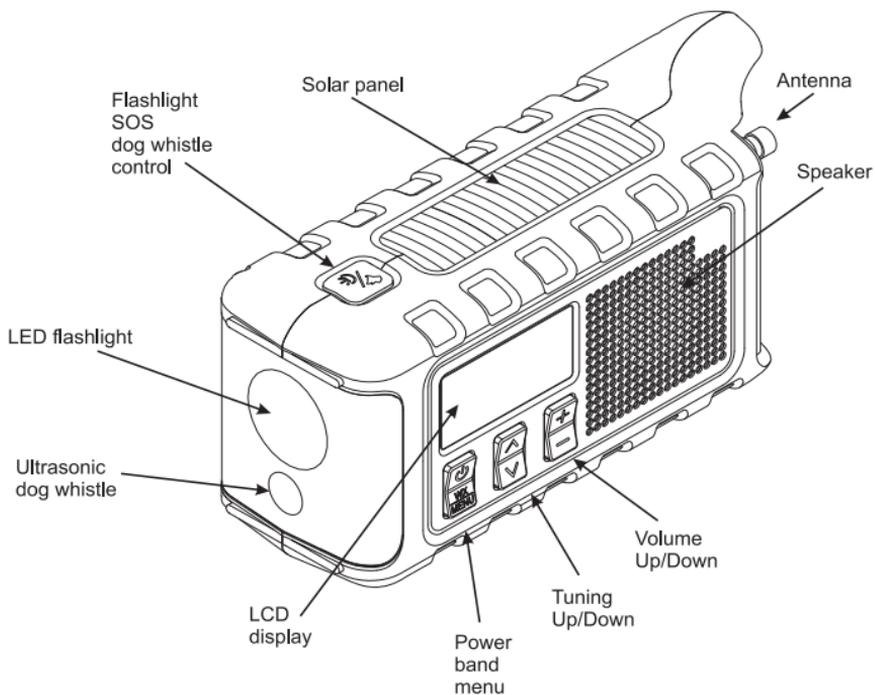
You can also find additional information about the ER310PRO on our website at midlandusa.com or may contact our Customer Service team at (816) 241-8500 from 9 AM to 4 PM (CT) Monday through Friday for assistance.

Features

· Charge battery three ways: hand crank, USB, or solar panel

· 7 NOAA/NWS weather alert channels

· 10,0000 mAh rechargeable lithium-ion battery

· Bluetooth audio streaming

· Powerful flashlight uses Cree®* LEDs

· SOS Morse code flashlight beacon with siren

· Ultrasonic dog whistle

· Power bank function for charging external devices

· AM/FM radio

· Digital clock

· Headphone jack

· Rotatable telescopic antenna

· Large, bright, backlit LCD

*Cree® is a registered trademark of Cree, Inc. or one of its subsidiaries.

Controls and Functions

Flashlight SOS dog whistle control

Solar panel

Antenna

Speaker

LED flashlight

Ultrasonic dog whistle

Volume Up/Down

Tuning Up/Down

LCD display

Power band menu

Controls and Functions Continued...

Headphone jack

Crank for hand charging

USB type C bidirectional power delivery charge port

On/Off switch

Temperature display

AM/PM indicator

Band indicator

Battery level

Charge indicator

Bluetooth

Dog whistle

Frequency
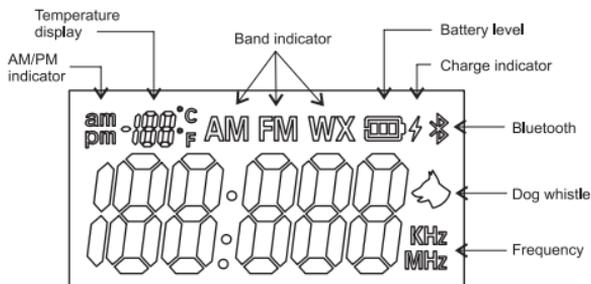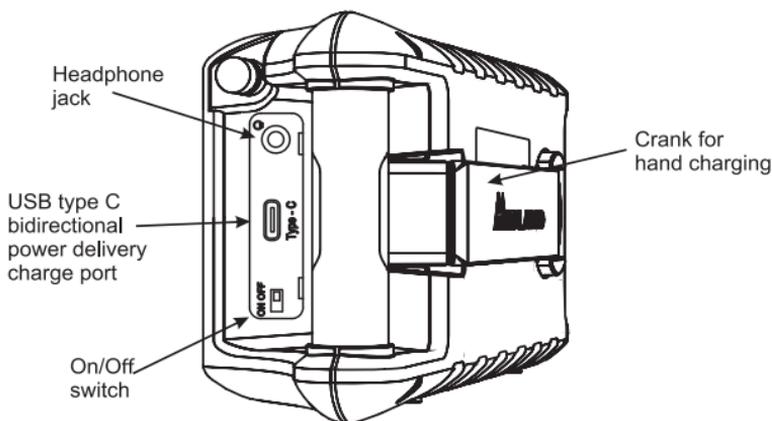
Ambient Temperature Display

The ER310PRO constantly displays the ambient temperature on the display.

⚠️ **Note:** The temperature sensor is located in the handle of the unit. Excessive handling or charging of the device can temporarily affect the temperature reading.

Powering your ER310PRO

Before using your ER310PRO
When you receive your ER310PRO, the On/Off switch will be in the "Off" position.

- Move the On/Off switch to "ON" to begin using your radio. You do not need to turn your unit off in normal usage. You can turn the unit off if you anticipate storing the unit for several months.

USB Battery Charging
Before using the ER310PRO, the internal rechargeable battery pack should be charged using the USB-C cable provided.

To charge the ER310PRO with the USB-C cable, insert the cable into the USB-C port on the handle end of the unit. Then plug the opposite end into any USB-C power source. The battery symbol and charge icon will both be active while the battery is charging as follows:

- If the power source used is 5V only, the battery icon will flash, and the charge indicator ⚡ will be visible.
- If the power source used is capable of fast charging, the battery icon will flash, and the charge ⚡ indicator will also flash.

When the internal battery has reached full charge, the battery icon will stop flashing and show 3 bars. Charge time will vary depending on the type of power source used.

⚠️
- A 5V only power source will take between 6 and 10 hours to fully charge a depleted battery.
- A fast-charging power source will fully recharge the unit in 3-4 hours.

Rechargeable Battery

Your ER310PRO is equipped with a 10,000mAh Li-Poly battery. This battery provides power to operate your emergency radio as well as provide power bank functions for charging external devices.

With a full charge, the radio battery will provide over 200 hrs of radio use depending on volume setting.

When fully charged, the Power Bank feature can fully charge an iPhone 14 up to 3 times. (Other phones may be slightly more or less than 3 times.)

Warning:

Do not attempt to service or change the radio's lithium battery. The ER310PRO is a sealed unit, and the battery is not serviceable.

Dynamo Power: Turning the hand crank charges the built-in battery pack. To charge the radio using the hand crank, start turning the crank. Speed of cranking and length of time cranked will determine the charge of the Li-ion battery. The battery icon on the LCD will flash as the battery charges. When the battery has reached full charge, the battery icon will stop flashing and will have 3 bars. One minute of cranking gives up to 9 minutes of radio use time.

Solar Panel Charge: Place the ER310PRO where the solar panel is exposed to direct sunlight. One hour of solar charging in optimal sunlight conditions gives up to 45 minutes of radio use time. The battery icon on the LCD will flash as the battery charges. When the battery has reached full charge, the battery icon will stop flashing and will have 3 bars.

Charging External Devices

Cell phones and USB-powered devices can be charged using the USB-C charge cable for that device. Connect the charge cable to the USB Outlet port on the side of the ER310PRO labeled "TYPE-C ". If the AM/FM or Weather radio is on it will automatically turn off and go into charge mode. Once charging is complete; disconnect the device and charging cable from the ER310PRO. This will allow you to operate the other features in your ER310PRO.

External Charging Mode

If an external device is charging in normal USB 5V mode, the ⚡ icon will be shown solid.

If an external device is charging in Power Delivery mode, the ⚡ icon will be flashing.

Operating the Radio

Turning the ER310PRO On/Off & Selecting a Band

- To turn the radio on, press the **BAND** button. To cycle through AM, FM, Weather radio and Bluetooth streaming, repeatedly press the band button.

- To turn the radio OFF, press and hold the **BAND** button for 2 seconds.

Adjusting the Volume

- To adjust the volume, press the UP/DOWN **VOLUME** control buttons to adjust the audio.

Tuning the Radio

- Press the **BAND** button to cycle through AM, FM, and Weather radio bands.

- Once you are on the desired radio band, you can tune to the desired station with the **TUNE** up or down buttons. For best FM and Weather reception, fully extend the telescopic antenna and rotate until reception is clear.

Using the Weather Radio

About NOAA/NWS

The National Oceanic Atmospheric Administration and the National Weather Service operates a system of weather and hazard alert broadcasts covering most of the United States. Typical broadcasts are within reception distance of 25-50 miles of the weather station. Fully extend the telescopic antenna and rotate until reception is clear. The ER310PRO can receive broadcasts up to 50 miles from the weather station depending on your location and conditions of weather, terrain, etc. If reception is not good, try a different location to find a spot of improved reception. If indoors, placement near a window usually improves reception. If a weather broadcast cannot be heard on any of the 7 channels, contact your local NOAA/NWS office and verify the closest station is on air. Their website is **http://www.nws.noaa.gov/nwr/.**

Selecting a Weather Channel

The ER310PRO has 7 NOAA/NWS weather channels to choose from:

• Press the **BAND** button to select the weather band.
• Then use the **TUNE** buttons to select the strongest weather channel in your area.

Ch. #	Frequency
1	162.400 MHz
2	162.425 MHz
3	162.450 MHz
4	162.475 MHz
5	162.500 MHz
6	162.525 MHz
7	162.550 MHz

Using the Weather Radio Continued...

Weather Alert Function

· To enable the NOAA Weather Alert function, press the **WX/MENU** button.

· When enabled, the "WX" icon on the LCD screen will flash.

· When a weather alert is received, the ER310PRO will sound an audible siren and the flashlight will flash on and off along with the LCD backlight for 1 minute.

· Within the first minute of an alert being received, press any button on the ER310Pro to stop the siren and flashlight. The radio will switch to your selected weather channel.

Bluetooth (BT) Streaming

· Press the **BAND** button repeatedly to select the Bluetooth streaming mode. When selected, the LCD will display "blue", the ⁂ icon will show and the radio will announce, "Bluetooth mode". On your phone or other Bluetooth device, find "ER310 BT" in the Bluetooth device list and select that device.

· To adjust Bluetooth audio stream, use the VOLUME buttons on the ER310PRO or the volume buttons on your Bluetooth audio device.

ER310PRO Settings Menu

Accessing and Using the Menu

- To access the ER310PRO's settings menu, press and hold the **WX/MENU** button for 2 seconds.
- To adjust the settings use the **TUNE** up and down buttons.
- To go to the next menu option, press the **WX/MENU** button.
- To exit the menu, toggle through all the menu options or wait 30 seconds and the menu will time-out.

Setting the Clock

- To set the clock, press the **WX/MENU** button and select the 24 hours or 12 hour clock.
- Press the **WX/MENU** button to adjust the time and again to adjust the minutes.

Backlight Option

The ER310PRO has 3 backlight settings:

- OFF: The backlight will always be off.
- ON: The backlight will always be on.
- Default: The backlight will turn on for 5 seconds when a button is pressed then turn off.

Weather Channel Display Option

The ER310PRO has 2 weather channel display options:

- Frequency: Displays weather channel frequency.
- Channel: Displays channel numbers.

Temperature Units Selection

The ER310PRO allows selection between centigrade "C" or Fahrenheit "F".

LED Flashlight

The ER310PRO has 2 flashlight brightness settings:

- Dim: The first press of the flashlight button will enable the dim setting.
- Bright: The second press of the flashlight button will enable the bright setting.

SOS Morse Code Flashlight Beacon

- To enable the SOS feature, press the flashlight button 3 times. The SOS Morse Code is: 3 short flashes, 3 long flashes, and 3 short flashes.
- Note: The siren will sound 5 seconds after the SOS beacon is activated.
- To turn off the SOS feature, press the flashlight button.

Ultrasonic Dog Whistle

- The ultrasonic dog whistle may assist search and rescue teams to locate individuals during an emergency situation.
- To enable the ultrasonic dog whistle, press and hold the flashlight/dog whistle button for 2 seconds. The ultrasonic dog whistle icon will be lit in the upper right corner of the LCD screen.
- To turn off the ultrasonic dog whistle, press any button on the radio.

Using the Headphone Jack

Plug in a set of headphones (not included) that have a 1/8 inch mono or stereo plug.

LIMITED WARRANTY (United States)

Subject to the exclusions set forth below, Midland Radio Corporation will repair or replace, at its option without charge, any Midland FRS/GMRS which fails due to a defect in material or workmanship within three years following the initial consumer purchase.

This warranty does not apply to water damage, battery leak, abuse or misuse of unauthorized accessories, unauthorized service or modification or altered products. Accessories have a 90 day warranty from date of purchase, including any charge cables or batteries.

ANY IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED AS SET FORTH HEREIN AND TO THE DURATION OF THE LIMITED WARRANTY, OTHERWISE THE REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL MIDLAND BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE, GROSS NEGLIGENCE, BODILY INJURY, PROPERTY DAMAGE AND DEATH) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR ACCESSORY, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES TO THE FULL EXTEND THESE DAMAGES MAY BE DISCLAIMED BY LAW.

For Product Purchased in the USA contact **support@midlandusa.com.**

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.

To register your product for a warranty claim, please visit
http://midlandusa.com/apps/product-registration and contact Customer Experience at
support@midlandradio.com for any additional assistance.

Midland Radio Corporation
Warranty Service Department
5900 Parretta Drive,
Kansas City, MO 64120

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

This device complies with RSS-310 of Industry Canada. Operation is subject to condition that this device does not cause harmful interference.

We'd love to hear from you! Let us know what
you think about your new Midland product at

or by visiting us at
midlandusa.com

Learn more about this product:

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