

# Lightning Detector

model 02020



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**Questions?** Contact Customer Support at (877) 221-1252 or visit [www.AcuRite.com](http://www.AcuRite.com).

**SAVE THIS MANUAL FOR FUTURE REFERENCE.**

# ACURITE®

Congratulations on your new AcuRite product. To ensure the best possible product performance, please read this manual in its entirety and retain it for future reference.

## Unpacking Instructions

Remove the protective film that is applied to the LCD screen prior to using this product. Locate the tab and peel off to remove.

## Package Contents

1. Lightning detector with belt clip
2. Instruction Manual

# IMPORTANT

PRODUCT MUST BE REGISTERED  
TO RECEIVE WARRANTY SERVICE

## PRODUCT REGISTRATION

Register online  
to receive 1 year  
warranty protection

[www.AcuRite.com](http://www.AcuRite.com)

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**Note:** Under no circumstances shall the Lightning Detector, Chaney Instrument Co. or the Primex Family of Companies be held responsible for any damages whatsoever that may result from the use of or inability to use this product, including without limitation any indirect, incidental, special, exemplary or consequential damages, which are expressly disclaimed. This disclaimer of liability applies to any damages or injury caused by any failure of performance, error, omission, inaccuracy, interruption, deletion, defect, delay in operation or transmission software virus, communication failure, theft or destruction or unauthorized access to, alteration of, or use of the product, whether for breach of contract, tortious behavior (including, without limitation, strict liability), negligence, or under any other cause of action, to the fullest extent permissible by law. This does not affect any statutory rights which may not be disclaimed. The contents of this product, including all lightning and weather data are provided "as is" and without warranty or condition of any kind, express or implied, including, without limitation, any warranty of merchantability or fitness for a particular purpose. Chaney Instrument Co. & the Primex Family of Companies do not warrant that this product or the data that it provides will be free of errors, interruptions, viruses or other harmful components. Chaney Instrument Co. & the Primex Family of Companies do not warrant the accuracy or reliability of any lightning strike alerts, weather data or other information provided by the product. Chaney Instrument Co. & the Primex Family of Companies reserve the right to alter the product or withdraw it from the market at its sole discretion.

# Features & Benefits



## Lightning Detector

- 1. Backlight Button**  
Momentary (5 second) backlight for low-light viewing.
- 2. Power Button**  
Press to power ON, press AND HOLD to power off.
- 3. Strike Counter**  
Displays running total of lightning strikes that have been detected.
- 4. Status Display**  
Displays current status of the device and/or instructions.
- 5. Strike Indicator Red LED Light**  
Indicates a lightning strike has occurred within 25 miles.
- 6. Lightning Strike Indicator**  
Indicates a lightning strike has occurred within 25 miles.
- 7. Low Battery Indicator**
- 8. Estimated Distance to Storm Front**  
Updates with every lightning strike.

## Install or Replace Batteries

AcuRite recommends high quality alkaline batteries for the best product performance. Heavy duty or rechargeable batteries are not recommended.

1. Remove the belt clip.
2. Remove the battery cover.
3. Insert 2 x AAA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
4. Replace the battery cover.
5. Replace the belt clip.

**1** Remove Belt Clip

**A** Pull tab UP to unlock belt clip

**B** Slide belt clip OFF



**2** Remove Battery Cover

**3** Install Batteries  
2 AAA alkaline batteries



**PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.**

**BATTERY SAFETY:** Clean the battery contacts and also those of the device prior to battery installation. Remove batteries from equipment which is not to be used for an extended period of time. Follow the polarity (+/-) diagram in the battery compartment. Promptly remove dead batteries from the device. Dispose of used batteries properly. Only batteries of the same or equivalent type as recommended are to be used. DO NOT incinerate used batteries. DO NOT dispose of batteries in fire, as batteries may explode or leak. DO NOT mix old and new batteries or types of batteries (alkaline/standard). DO NOT use rechargeable batteries. DO NOT recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.

## Using the Lightning Detector

### Power On/Off

Press "⏻" button to turn the detector ON. The detector will display "PLEASE WAIT" while it automatically calibrates itself. When calibration is complete "LISTENING.." will display, indicating it is ready for use. Press AND HOLD the "⏻" button for 3 seconds to turn the detector off.

### Indoor & Outdoor Modes

Outdoor mode is the default setting. Indoor Mode optimizes the performance of the detector for indoor use by making it less sensitive to interference. To select indoor mode, press AND HOLD the "☀️" and "⏻" buttons for 2 seconds until you hear a beep. The display will say "INDOOR". When powered off, the detector will return to its default, outdoor mode.

### Lightning Detected

The device detects cloud-to-cloud, cloud-to-ground and intra-cloud lightning. When lightning is detected the detector emits two beeps and the red light flashes. The display indicates "STRIKES DETECTED!", and "STRIKE COUNT" displays a running count of lightning strikes detected. The detector estimates the distance to the front of the lightning-producing storm. The detector alerts and flashes the light every 5 seconds until no strikes are detected for 30 minutes. After 30 minutes of inactivity, the detector will return to its default "LISTENING.." state. The "STRIKE COUNT" resets when the device is powered off.

### False Detection

This detector features advanced technology to distinguish between lightning strikes and interference, however in rare cases the detector may "false detect" lightning activity due to interference. In these situations, verify there is no lightning in the area and then relocate the detector. If the false detections persist, identify and relocate the source of interference or relocate the detector.

### Silencing Audio Alerts

Audio alerts (beeps) are enabled by default each time the device is powered on. Audio alerts can be temporarily silenced for up to 60 minutes. To temporarily silence audio alerts, press and hold the "LIGHT" button for 5 seconds. The device will display "MUTED". The visual alerts from the LED light and display messages will remain active even when audio alerts have been silenced. When the device detects a lightning strike while audio alerts are muted, the device will display the message, "STRIKES DETECTED! MUTED" along with the strike indicator/flashing LED, updated strike count and updated estimated distance. The device will re-activate audio alerts after 60 minutes or after audio alerts have been re-enabled. To re-enable audio alerts, press and

hold the "LIGHT" button for 5 seconds. The device will display "SOUND ON".

## Interference


The detector features enhanced interference rejection capabilities to prevent false lightning detection. When the detector cannot detect lightning due to interference from nearby equipment, the detector sounds a single audible beep and displays "UNABLE TO DETECT...PLEASE RELOCATE."

Use the detector at least 3 feet away from sources of interference, including:

- Electric motors (windshield wiper motor or fan motors in cars, hard drive and optical drive motors on your PC and AV equipment, well pumps, sump pumps)
- CRT monitors (PC monitors, TV's)
- Fluorescent light fixtures (turned off or on)
- Microwave ovens (while in use)
- PC's and mobile phones

**WARNING:** Take shelter IMMEDIATELY when lightning is present, whether or not it has been detected by the Lightning Detector. If you are concerned about lightning strikes, follow all safety precautions to keep yourself and others safe. DO NOT rely on this Lightning Detector as your only source for warnings about potentially deadly lightning strikes or other severe weather conditions.

## Alerts & Messages

Text on Display	Alerts	Message
<b>STRIKES DETECTED!</b>	2 beeps & light flashes	Lightning has been detected within 25 miles
<b>INDOOR</b>	None	Confirms the detector is set to operate indoors
<b>LISTENING..</b>	None	Detector is ready for use
<b>LO BATTERY.</b>	 icon & 1 beep/minute	Replace batteries
<b>NA</b>	None	Lightning detected beyond 25 miles
<b>PLEASE WAIT</b>	None	Detector is calibrating itself
<b>UNABLE TO DETECT...PLEASE RELOCATE</b>	1 beep	Interference detected, use the detector in a different location
<b>MUTED</b>	None	Audio alerts temporarily silenced. Press AND HOLD the "LIGHT" button for 5 seconds to re-enable audio alerts.

## Troubleshooting

<b>Display reads "UNABLE TO DETECT...PLEASE RELOCATE"</b>	<ul style="list-style-type: none"> <li>• Relocate the detector.</li> <li>• Make sure the detector is placed at least 3 feet (.9 m) away from electronics that may cause interference (see page 6).</li> </ul>
<b>Display screen not working</b>	<ul style="list-style-type: none"> <li>• Check that the batteries are installed correctly. Batteries may need to be replaced.</li> </ul>
<b>Detector beeping</b>	<ul style="list-style-type: none"> <li>• Review the Alerts &amp; Messages chart above to determine why the detector is beeping.</li> </ul>

**If your AcuRite product does not operate properly after trying the troubleshooting steps, visit [www.AcuRite.com](http://www.AcuRite.com) or call (877) 221-1252 for assistance.**

## Care & Maintenance

Detector is weather resistant. It is not intended for direct exposure to rainfall. Clean with a soft damp cloth. Do not use caustic cleaners or abrasives.

## Specifications

<b>OPERATING TEMPERATURE</b>	32°F to 140°F; 0°C to 60°C
<b>LIGHTNING DETECTION RANGE</b>	1 - 25 miles / 1.6 - 40km
<b>LIGHTNING COUNTER</b>	Counts up to 99 strikes (power off to reset counter)
<b>AUDIBLE TONE</b>	85 decibels
<b>POWER</b>	2 x AAA alkaline batteries (not included)
<b>BATTERY LIFE EXPECTANCY</b>	8-10 months - based on an average of 3 lightning strikes detected per day

## FCC Information

This device complies with part 15 of 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.

**WARNING:** 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.

**NOTE:** 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 the 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:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.



## Customer Support

AcuRite customer support is committed to providing you with best-in-class service. **For assistance**, please have the model number of this product available and contact us in any of the following ways:



(877) 221-1252



info@chaney-inst.com

24/7 support at [www.AcuRite.com](http://www.AcuRite.com)

- ▶ Installation Videos
- ▶ Register your Product
- ▶ Instruction Manuals
- ▶ Support User Forum
- ▶ Replacement Parts
- ▶ Submit Feedback & Ideas

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## Limited One Year Warranty

At AcuRite, we proudly uphold our commitment to quality technology. Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase.

We recommend that you visit us at [www.AcuRite.com](http://www.AcuRite.com) for the fastest way to register your product. However, product registration does not eliminate the need to retain your original proof of purchase in order to obtain warranty benefits.

Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase. Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by Chaney, and at its sole option, be repaired or replaced by Chaney. Transportation costs and charges for returned goods shall be paid for by the purchaser. Chaney hereby disclaims all responsibility for such transportation costs and charges. This

warranty will not be breached, and Chaney will give no credit for products it manufactures which have received normal wear and tear, been damaged (including by acts of nature), tampered, abused, improperly installed, damaged in shipping, or repaired or altered by others than authorized representatives of Chaney.

The above-described warranty is expressly in lieu of all other warranties, express or implied, and all other warranties are hereby expressly disclaimed, including without limitation the implied warranty of merchantability and the implied warranty of fitness for a particular purpose. Chaney expressly disclaims all liability for special, consequential or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Chaney further disclaims all liability from personal injury relating to its products to the extent permitted by law. By acceptance of any of Chaney's products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to assume for Chaney any other liability in connection with the sale of its products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this paragraph, and the preceding paragraph, unless done in writing and signed by a duly authorized agent of Chaney. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For in-warranty claims: Chaney Instrument Co.  
965 Wells St., Lake Geneva, WI 53147

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