



## Maven CRF Series Laser Rangefinder User Manual

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### **MAVEN**<sup>®</sup> CRF Series Laser Rangefinder User Manual

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### CRF Series Laser Rangefinder

Thank you for purchasing a Maven<sup>®</sup> CRF Series Laser Rangefinder. With this purchase you have told the world that quality, performance, and personality mean more to you than big-brand marketing. Included here are instructions for getting your rangefinder ready for your first adventure. Rig it up, get out there and have some fun, then let us know all about your journey. We love hearing your stories as much we love making great products. Keep us in the loop at [stories@mavenbuilt.com](mailto:stories@mavenbuilt.com).



## PARTS OF THE RANGEFINDER:



<b>A.</b> POWER/ FIRE Button <b>B.</b> Ocular Lens <b>C.</b> Diopter Focus <b>D.</b> Laser Emission Aperture	<b>E.</b> Laser Receiving Aperture <b>F.</b> Field Button <b>G.</b> Display/ Menu <b>H.</b> Forest Button	<b>I.</b> Battery Compartment <b>J.</b> Tripod Mount <b>K.</b> Lanyard Lug
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## GETTING STARTED:

Your CRF.1 rangefinder comes with a battery already installed.  
Before using:

1. Open the battery door by releasing the latch and flipping the door down.
2. Remove and discard the plastic insert sitting on top of the battery.
3. The CR2 battery is already in place.
4. Flip battery door up and latch door back into place.

Open battery door and discard plastic insert

### POWERING UP:

Once the battery is installed and the 4 steps are completed, press and release the POWER button. The display will light up to show the unit is on and ready for ranging. The laser will power down automatically after 10 seconds of non-use.

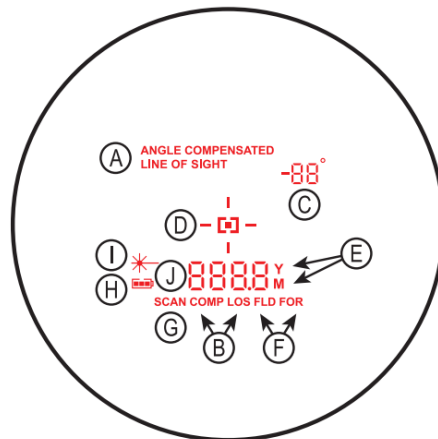
### FIRING THE LASER:

To fire the laser, simply look through the ocular lens, press and release the POWER button once to turn it on, align the reticle over the object you want distance to, and press again to fire. Within the display is a "Firing Indicator" letting you know the laser is firing. At extended distances holding the FIRE button might be required.

### FOCUS:

Adjust the diopter focus until the image is sharp.

## CRF.1 DISPLAY



A. Angle Compensated/Line of Sight Indicator (Menu only)

B. Angle Compensated/Line of Sight Indicator (Display)

C. Degree of Angle (LOS only)

D. Aiming Reticle

E. Unit of Measure Indicator

F. Field/Forest Indicator

G. Scan Indicator

H. Battery Life Indicator

I. Firing Indicator

J. Distance Display

Maximum Range (Reflective) 2400 yds \*

Accuracy up to 0.5 yds to 200 yds \*\*

\* Highly reflective targets will be acquired more quickly while less reflective targets may take longer to acquire

\*\* Accuracy validation completed to a 2ft x 2ft white target at a distance of 200 YDS

## ABOUT THE DISPLAY:

### AUTOMATIC BRIGHTNESS DISPLAY:

The CRF.1 is equipped with a built-in light sensor that reads ambient light. The internal software adjusts the red brightness intensity based on the measured light reading. This allows for the right amount of red brightness for the surrounding environment.

Note: The brightness display is 100% automatic no need to adjust brightness manually.

## MENU & NAVIGATION:

### ANGLE MODE:

The CRF.1 provides you the ability to measure and display either Line of Sight (LOS) or Angle Compensated distance (COMP). Angle compensated distance is an automatic calculation using the line of sight distance and factors in the degree of elevation angle.

When in Line of Sight Mode and unit is on: "LOS" indicator will be visible in bottom of display.

When in Angle Compensation Mode and unit is on: "COMP" indicator will be visible in bottom of display.

To change Angle Mode:

With CRF.1 on, press the DISP/MENU button for 3 seconds. To change, press the ▲ or ▼ button until the desired mode is displayed, then press the FIRE button to accept. Angle Mode selection will be displayed within bottom of display as "LOS" or "COMP".

#### **DEGREE OF ANGLE:**

This indicator will only display angle in Line of Sight mode and displays a range from -70 to + 70 degrees

#### **AIMING RETICLE:**

Choose from three reticle options (Crosshair, Bracket, and Square).

#### **To change Reticle:**

With CRF.1 on, press the DISP / MENU button for 3 seconds. Continue to press and release DISP / MENU button to navigate to the reticle menu. To change, press the ▲ or ▼ button until the desired reticle is displayed and then press the FIRE button to accept and exit.

#### **UNIT OF MEASURE:**

The CRF.1 provides distance measurements in yards (Y) or meters (M).

#### **To change unit of measure:**

With CRF. 1 on, press the DISP / MENU button for 3 seconds. Continue to press and -continued on next page release DISP / MENU button to navigate to the Y/M Menu. To change, press the ▲ or ▼ button until the desired unit of measure is displayed and then press the FIRE button to accept and exit.

#### **FIELD/ FOREST BUTTONS:**

Pressing either button allows you to easily and quickly select for your application and environmental setting.

Field – Press the FLO "Field" button when you want to acquire small, hard to hit targets and ignore larger objects in the background (e.g. target in front of trees). Displayed as FLO. Forest – Press the FOR "Forest" button when you want to acquire distance to objects located behind trees, bushes; or when in rainy or snowy conditions (e.g. target behind cover). Displayed as FOR.

#### **SCAN INDICATOR:**

With the laser on, press and hold the FIRE button, scan back and forth to various objects; while doing so, watch for changes in the measurement number displayed as you move the aiming reticle across targeted objects. This is a quick way to get an accurate reading on multiple objects. This will be indicated as SCAN within the display.

#### **DISP BUTTON:**

Pushing this button once toggles the Automatic brightness display. This button allows you to change the color of the information displayed from black to red or red to black. We recommend that in low light conditions the red display be used, and in bright, sunny conditions the black display be used.

#### **BATTERY LIFE INDICATOR:**

Within the display, the Battery Life Indicator shows how much battery charge is remaining.

The Battery Indicator will display the first time the POWER button is pressed and will also display in the MENU. If the Battery Indicator blinks – battery needs to be replaced and the unit will not be operable.

#### **REPLACING BATTERY:**

Open the door latch, insert a CR2 battery with positive end facing outwards. Once installed, reinstall the battery door and re latch.



#### **RANGEFINDING TIPS:**

1. Unlike mankind, not all objects are created equal.
  - a. Some objects are more reflective than others.
  - b. Larger and more reflective objects are easier to detect.
  - c. Objects that are lighter in color are generally easier to acquire than dark objects.
2. Rain, snow and fog are not a laser's friend.
  - a. This type of precipitation hinders ranging performance. In these conditions laser will produce a more accurate reading in Forest mode.
  - b. Ranging in cloudy conditions can improve ranging performance; bright sunshine can decrease ranging performance.
  - c. Ranging over a reflective body of water can cause inaccurate readings.
  - d. Flat and perpendicular surfaces reflect better than curved or angled surfaces.
3. Can't get a reading (horizontal hash marks instead of distance)?
  - a. Press and hold the FIRE button while holding the reticle on the target. Ensure that the FIRE button is not released before a distance is displayed.
  - b. Use the SCAN feature and technique. With the laser on, view through the eyepiece and align the aiming reticle onto the object and press and hold the FIRE button and move the laser slowly over the object until distance is displayed.

**NOTE:**

The CRF.1 is designed to reach highly reflective targets out to 2000 yards. If a reading is not displayed, target may not be within the distance threshold, size, color, or reflectivity needed to provide an accurate reading.

**CARING FOR YOUR RANGEFINDER:****CLEANING:**

1. Remove as much dust and dirt as possible from the lenses with a blower or bristled brush.
2. Apply a few drops of lens cleaning solution to a lens tissue or microfiber cleaning cloth. Ensure that the cleaning cloth is free from dirt and grit so as not to scratch the lenses. NEVER use a I-shirt, facial tissue or heavy cotton cloth on your lenses as they can scratch the lenses.
3. Using a circular motion, gently remove oil, fingerprints, and grime from the lens surface, working from the center outward.
4. For cleaning and disinfecting surfaces other than glass, spray a microfiber cloth with Lysol spray and wipe down product or use a disinfectant wipe (e.g. Lysol, Clorox, CaviWipes).

**STORAGE:**

When your CRF.1 is not in use for over 3 months, we recommend removing the battery and storing your CRF.1 in a dry location at room temperature.

**FCC REQUIREMENTS:**

This device complies with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements. Operation of this device is subject to the following 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. 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.

The device does not contain any user-serviceable parts. Repairs should only be made by Maven or Authorized Maven agent. Unauthorized repairs or modifications could result in permanent damage to the equipment and will void your warranty and your authority to operate this device under Part 15 regulations.

**DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT:**

(Applicable in the EU and other European countries with separate collection systems) This equipment contains electric and/or electronic parts and must therefore not be disposed of as normal household waste. Instead, it should be disposed at the respective collection points for recycling provided by the communities. For you, this is free of charge. Further information about the subject is available at your community administration, your local waste collection company, or in the store where you purchased this equipment.



**SAFETY AND PRECAUTIONS**

Do not stare into beam or view directly without laser eye protection. Staring continuously into beam for prolonged periods of time could cause harm to your eyes. If used properly, this device is safe for your eyes and laser eye protection is not needed.

- Use the correct battery (CR2) and proper battery orientation.
- Do not look at sun.
- Do not activate buttons while aiming at eye or looking into objective lenses.

**FDA SAFETY**

Class 1 laser product in accordance with IEC 60825-1: Edition 3 2014-05.

Complies with 21 CFR 1040.10 and 1040.11 for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

**CAUTION:**

There are no user controls, adjustments or procedures. Performance of procedures other than those specified herein may result in access to invisible laser light.





## UNCONDITIONAL LIFETIME WARRANTY:

Maven products are made with a commitment to you, our customer. All Maven laser rangefinders come with an unconditional lifetime warranty. If your rangefinder becomes damaged or is at all defective, contact us immediately for repair or replacement. We don't care where or when you bought it or if it was your fault or not – if it says Maven, we will take care of it.

\*Warranty does not cover loss, deliberate damage, or cosmetic damage that does not hinder optical or electronic performance.

Call us at 800-307-1109 or email us at: [customerservice@mavenbuilt.com](mailto:customerservice@mavenbuilt.com) with any questions.

For warranty/service repairs please visit: [mavenbuilt.com/warrantyreturns](https://mavenbuilt.com/warrantyreturns).

To ensure the fastest and easiest processing of any warranty return, please register your Maven optic. Jump on [mavenbuilt.com/warranty-registration](https://mavenbuilt.com/warranty-registration) to get registered quickly and easily.



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800-307-1109 | 160 South 4th St. Lander. WY 82520

V.2

## Documents / Resources



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CRF Series Laser Rangefinder, CRF Series, Laser Rangefinder, Rangefinder

