

## Carson RF-700

# Carson Litewave Pro 650 Yard 6X Power Laser Rangefinder

## INSTRUCTION MANUAL - MODEL RF-700

### Introduction

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The Carson Litewave Pro 650 Yard Laser Rangefinder (RF-700) is a high-performance optical instrument designed for precise distance measurement. Featuring 6x magnification and a laser operating range of 4 to 650 yards, it is ideal for various applications including golf, hunting, construction, archery, and engineering surveys. This manual provides detailed instructions for proper setup, operation, and maintenance to ensure optimal performance and longevity of your device.

### What's in the Box

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Upon unboxing your Carson Litewave Pro Rangefinder, please verify that all the following items are included:

- Carson Litewave Pro 650 Yard Laser Rangefinder (RF-700)
- Carry Strap
- Pouch
- Microfiber Cleaning Cloth
- CR2 Battery (pre-installed or included separately)



Image: The product box for the Carson Litewave Pro 650 Yard Rangefinder, indicating the included accessories.

## Product Overview

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Familiarize yourself with the key components of your Litewave Pro Rangefinder:



Image: Top-down view of the rangefinder, showing the mode and power buttons on top.



Image: Front view of the rangefinder, highlighting the two objective lenses for laser emission and reception.



Image: Rear view of the rangefinder, showing the adjustable eyepiece and the battery compartment cover.





Image: A person using the rangefinder, demonstrating how to hold it to view through the eyepiece.

The device features a compact, ergonomic design with easily accessible control buttons on the top. The front houses the laser emitter and receiver lenses, while the rear has an adjustable eyepiece for clear viewing. A built-in tripod mount is located on the bottom for increased stability during use.

## Setup

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### 1. Battery Installation:

Locate the battery compartment on the side of the rangefinder. Twist the cover counter-clockwise to open. Insert one CR2 battery, ensuring the correct polarity (+/-) as indicated inside the compartment. Replace the cover and twist clockwise to secure.

### 2. Eyepiece Adjustment:

Look through the eyepiece. If the display or view appears blurry, rotate the eyepiece diopter ring (located around the eyepiece) until the image and display are sharp and clear for your vision.

### 3. Attaching the Carry Strap:

Thread the included carry strap through the loop on the side of the rangefinder. This helps prevent accidental drops and keeps the device readily accessible.



Image: A person holding the rangefinder, demonstrating the use of the wrist strap for secure handling.

## Operating Instructions

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### 1. Powering On/Off:

Press the **POWER** button (located on top) once to turn on the device. The LCD display will activate. The device will automatically power off after a period of inactivity to conserve battery life.

### 2. Taking a Measurement:

With the device powered on, aim the crosshairs in the display at your target. Press the **POWER** button again. The measured distance will appear on the LCD display. For continuous measurement, hold down the **POWER** button.

### 3. Changing Measurement Units:

While the device is powered on, press and hold the **MODE** button (located on top) for approximately 3 seconds to switch between yards (Y) and meters (M).

## Operating Modes

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The Litewave Pro offers several modes to optimize measurements for different scenarios. Press the **MODE** button repeatedly to cycle through the available modes:

- **Distance Mode (Standard):**



This is the default mode for general distance measurement. Simply aim and press the POWER button to get the direct line-of-sight distance to your target.

- **Closest Target Priority Mode:**

Ideal for situations where there might be obstacles (like trees or bushes) in front of your intended target. This mode measures the distance to the closest object in the laser path.

- **Farthest Target Priority Mode:**

Useful when measuring distances to objects behind potential foreground clutter. This mode measures the distance to the farthest object in the laser path.

- **Golf Pinseeker Mode with Slope Compensation:**

Specifically designed for golf, this mode helps identify the flagstick even with background objects. Once the flagstick is locked, the display will show the slope distance, the inclination angle, and the adjusted "play as" distance (slope compensated distance) for accurate club selection.



Image: A simulated view through the rangefinder's display in Golf Pinseeker mode, showing distance, angle, and slope-compensated distance to a flagstick on a golf course.

## Maintenance

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Proper care will ensure the longevity and accuracy of your rangefinder:

- **Cleaning Lenses:** Use the included microfiber cleaning cloth to gently wipe the lenses. For stubborn dirt or smudges, apply a small amount of lens cleaning fluid to the cloth, not directly to the lens.
- **Cleaning Body:** Wipe the body of the rangefinder with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the rangefinder in its protective pouch in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery:** Remove the battery if the device will not be used for an extended period to prevent leakage.



## Troubleshooting

Problem	Possible Cause / Solution
Device does not power on.	Battery is dead or incorrectly installed. Replace battery or check polarity.
Display is blurry.	Eyepiece diopter needs adjustment. Rotate the eyepiece ring until clear.
Inaccurate readings or no reading.	Lenses are dirty. Clean with microfiber cloth. Target is too close or too far (outside 4-650 yards range). Poor weather conditions (heavy rain, fog). Target surface is not reflective enough (e.g., water, very dark surfaces).
Device powers off unexpectedly.	Automatic power-off feature activated due to inactivity. This is normal.

## Specifications

Feature	Detail
Brand	Carson
Model Number	RF-700
Magnification	6x
Objective Lens Diameter	24mm
Measuring Range	4 - 650 Yards (3.5 - 600 meters)
Eye Relief	12mm
Exit Pupil Diameter	4mm
Field of View	114m at 1000m
Battery Type	1 x CR2 (included)
Item Weight	0.42 Pounds (6.7 ounces)
Product Dimensions	4.4 x 1.7 x 2.9 inches
Color	Grey
Material	Plastic
UPC	046876000218

## Warranty and Support

For detailed warranty information and customer support, please refer to the official Carson Optical website or contact their customer service department. Keep your purchase receipt as proof of purchase for any

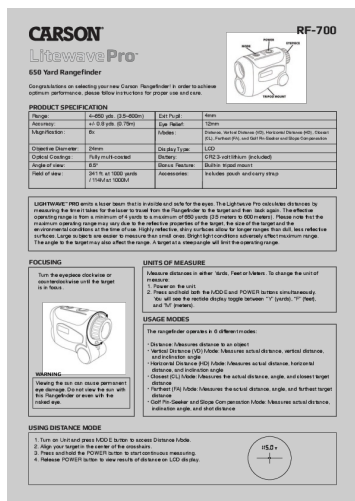
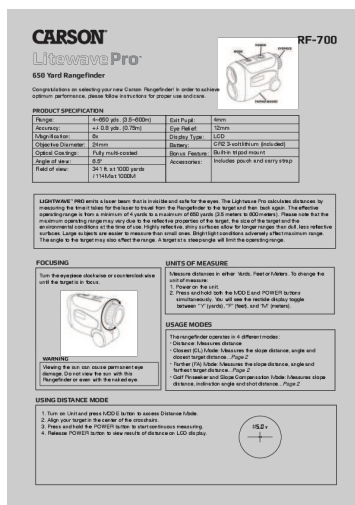
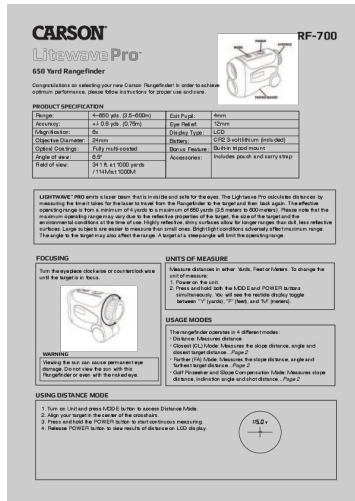
warranty claims.

Online Support: [www.carson.com/support](http://www.carson.com/support)

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This manual is for informational purposes only. Specifications are subject to change without notice.

## Documents - Carson – RF-700



## [\[pdf\]](#) User Manual Instructions Specifications Guide Declaration of Conformity Accessories

Instructions for RF 700 Litewave Pro 650 Yard Rangefinder by Carson Optical Guide EN User Manuals  
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CARSON **RF-700** Litewave Pro™ 650 Yard Rangefinder Congratulations on

selecting your new Carson Rangefinder In order to achieve optimum performance, please follow instructions for proper use and care. TRIPOD MOUNT PRODUCT SPECIFICATION Range: Accuracy: Magnification: Objective Diameter: Optic...

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## [\[pdf\]](#) Instructions Specifications Accessories

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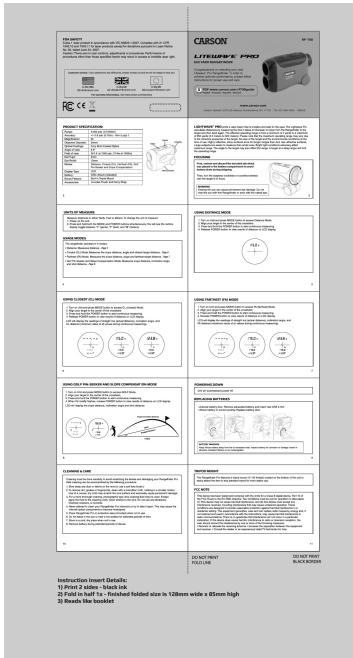
## [\[pdf\]](#) Instructions Specifications Guide Declaration of Conformity Accessories

Instructions for Litewave Pro by Carson Optical LIGHTWAVE™ PRO emits a laser beam that is invisible and safe the eyes The Lightwave calculates distances measuring time it takes the RF 700 guide EN  
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Congratulations on selecting your new Carson Rangefinder In order to achieve optimum performance, please follow instructions for proper use and care. TRIPOD MOUNT PRODUCT SPECIFICATION Range: 4-650 yds. 3.5-600m Accu...

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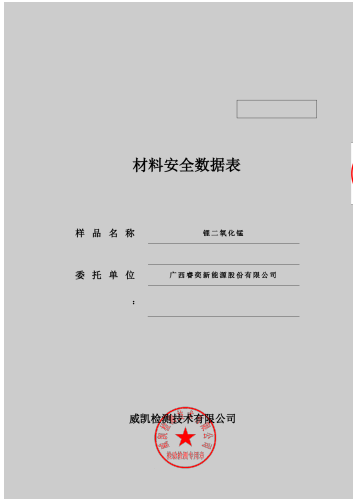


[pdf] User Manual Catalog

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