

ELEMENT[®]



SEEKER

Weapon Mounted Laser Rangefinder

EU/UKCA Declaration of Conformity

Hereby, Element Optics declares that this product is in compliance with the essential requirements and other relevant provisions of applicable EU directives and regulations, including the Radio Equipment Directive (RED) 2014/53/EU and RoHS Directive 2011/65/EU. A copy of the EU and UK Declarations of Conformity is available at <https://global.element-optics.com/documents>

Disposal of electrical & electronic equipment according to WEEE 2012/19/EU.

This product shall not be disposed of with household waste. Electrical and electronic equipment shall be collected and disposed of separately in accordance with local laws and regulations.

This product complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3 as described in FDA Laser Notice No. 56.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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 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.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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

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

Classification

This product is classified as a Class 3R laser product in accordance with IEC 60825-1:2014

Visible and Invisible Laser Radiation — Avoid direct exposure to beam

- Do not stare into beam
- Do not view the beam directly with optical instruments (e.g binoculars, magnifiers, telescopes)



General precautions

- Always operate the laser in accordance with this manual.
- Keep the laser product out of reach of children and unauthorized users.
- Do not use the product if the housing or aperture is damaged.
- Avoid exposing the laser beam to reflective surfaces; scattered reflections may be hazardous.
- Do not attempt to disassemble, reassemble or modify this rangefinder. Emitting laser radiation may pose a serious health risk. The manufacturer's warranty is void once a device has been disassembled.
- Do not use the device while walking, you might trip and fall.
- Do not use optical aids (binoculars, telescopes, magnifiers) to view the laser beam.
- Only activate the laser when the product is correctly aimed at the target object.
- Do not aim the laser at people or animals.

Maintenance and service:

- The laser contains no user-serviceable parts.
- All service and repairs must be performed by the manufacturer or qualified personnel authorized by Element Optics.

Invisible Laser:

Wavelength: 905NM

Maximum output power: <5mW

Visible Laser:

Wavelength: 605NM

Maximum output power: <5mW

MANUFACTURER:

ELEMENT OPTICS

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ELEMENT
BALLISTICS
CHIP



ONBOARD
SENSORS



REMOTE
OPERATION



3000m
RANGE



INTEGRATED
COMPASS



WEATHER
RESISTANT



QUICK
CONNECT



BLUETOOTH
CONNECTIVITY



CR123
BATTERY



SMARTPHONE
APP

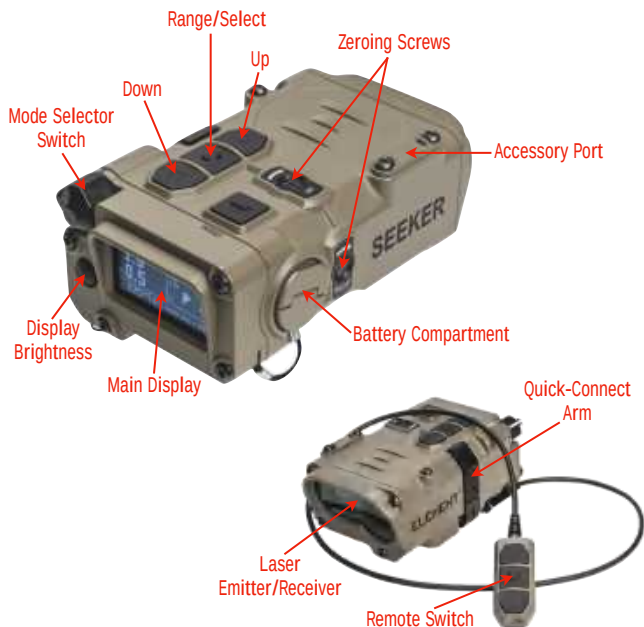


FEATHERWEIGHT
DESIGN



WARRANTY

The Seeker is a Weapon Mounted Laser Rangefinder (WMLRF) with an integrated Ballistics Calculator. Using the full power of the Element Ballistics Chip, the Seeker measures atmospheric conditions using on-board sensors, and allows for wind data capture to provide instant, accurate firing solutions. With seamless app integration, storage for 4 profiles and a user-friendly interface, the Seeker is our solution for rapid target engagement out to 3000 Meters.



The SEEKER uses a CR123 Battery. To access the battery compartment:

- 1) Lift up the finger tab (Fig 1.1)
- 2) Twist the cap anti-clockwise to unscrew (Fig 1.2)
- 3) Remove the protective film from the top of the battery, and refit battery cap.



Fig. 1

ALWAYS install battery with the flat side (negative) facing inwards, and positive side facing outwards as shown in Fig 1.3



- 1) **MODE SELECTOR SWITCH:** Toggles between OFF, RANGE and SETTINGS screens.
- 2) **DOWN:** Use for navigating settings menu, or adjusting wind speed/direction. When held down for 2 seconds in “Range” mode, this button toggles between target priority modes (FIRST/LAST/NORMAL)
- 3) **SELECT/RANGE:** In “Range” mode, this button activates the ranging laser, and scans continuously when held down. In “Settings” mode, use this button to select.
- 4) **UP:** Use for navigating settings menu, or adjusting wind speed/direction. When held down for 2 seconds in “Range” mode, this button toggles between ranging modes (LOS/HCD/BAL.C)
- 5) **WIND:** This button starts the wind configuration process, allowing you to enter your wind speed and direction.
- 6) **BRIGHTNESS:** Allows you to adjust screen brightness when in “Range” mode. Switches on visible laser in “Settings” mode.

Fig.3: Advanced Mode



Fig.4: Simple Mode



The SEEKER features a high-contrast screen which can be configured to display information in a number of ways.

- 1) **RANGE:** Distance measured by the laser module, displayed in METERS (M) or YARDS (Y).
- 2) **ACTIVE PROFILE:** The Seeker can store 4 ballistic profiles. This icon indicates which profile is currently being used to calculate firing solutions.
- 3) **TARGET PRIORITY MODE:**
 - **FIRST:** The processor prioritises the signal from the closest target detected. Useful when ranging an object in an open field.
 - **LAST:** The processor prioritises the signal from the furthest target detected. Useful when ranging through vegetation. This is also the best mode to use in fog, however it is important to note that in heavy fog the ranging function may be impaired.
 - **NORMAL (BEST):** The processor prioritises the strongest signal returned.
 - **SCAN MODE** can be activated by holding in the RANGE button. This gives a continuous distance readout.
 - Hold in the “Down” button for 2 seconds to cycle between modes, or select in the settings menu.
- 4) **RANGING MODE:**
 - **LOS (LINE OF SIGHT):** Direct distance to target
 - **HCD (HORIZONTAL COMPONENT DISTANCE):** The angle-compensated distance to your target, useful when referencing a bullet drop chart for given distances.
 - **BAL.C (BALLISTIC CALCULATOR):** Direct Target Distance shown, but additionally, Elevation & Windage data also displayed.
 - Hold in the the “Up” button for 2 seconds to cycle between these modes, or select in the settings menu.
 - When LOS or HCD are active, no firing solution will be displayed.
- 5) **BATTERY LEVEL INDICATOR:** Indicates remaining battery capacity.

- 6) **FIRING SOLUTION:** Shown as a numerical value in MRAD, MOA, CLICKS, CM, IN, etc. U (up) or D (down) for elevation, and L (left) and R (right) for windage. Can be configured to show 2 wind values.
- 7) **BUBBLE LEVEL:** Indicates whether the unit is level or canted. Can be calibrated in the settings menu.
- 8) **INCLINOMETER:** Angle of fire. Can be calibrated in the settings menu.
- 9) **COMPASS HEADING:** Direction the unit is pointing. Can be calibrated in settings menu.
- 10) **ADDITIONAL INFORMATION:** This space can be programmed to display TOF (time of bullet flight for distance ranged) or DOF (direction of fire for last range value)
- 11) **WIND DIRECTION:** Direction of oncoming wind. Can be captured using the wind menu, or obtained from external devices wirelessly.
- 12) **WIND SPEED:** Can be captured using the wind menu, and displayed in m/s, mph or knots.

Fig.5: SETTINGS MENU

