LRF-01 Bluetooth Rangefinder

User Manual

V1.2

Specification

Model	LRF-01
Type	Wireless Bluetooth Rangefinder
Accuracy, m	±1; (10-100 m) ±（1+L × 0.25%), (100 < L < 600 m, L being the target distance)
Laser Wavelength, nm	905 (Eye-safe)
Laser Pointer, nm	650
Bluetooth	5.0
Battery Parameters	One replaceable CR123 / 3.7V / 4h
IP Rating	IP67
Dimensions, mm	111 × 31 × 30
Weight, g	102 (w/o battery)

*Measurement Conditions for Typical Values:

Target size >= 1 m × 1 m, target reflectance >= 85%, outdoor visibility > 5 km.

I. In the Package

- LRF-01 Bluetooth Laser Rangefinder
- Quick Release Mount
- User Manual

II. Introduction

As an accessory of the LEAP series thermal sight products (refer to the LEAP product manual for specific model compatibility), LRF-01 Bluetooth Rangefinder enables users to accurately determine the target distance for precise shooting. The device features a compact and light-weighted design, and is built with a visible red dot laser and red dot zeroing functions.

III. Components

1. Bluetooth laser rangefinder module
2. Laser indicator
3. Laser receive port
4. Laser launch port
5. Battery compartment cover
6. LED indicator
7. Power button

The indicator shows the current device status:

Indicator Color	Indicator Status	Device Status
	Blinking	Automatically searching for a connection
	Keeping solid on for 3s after blinking and off	Successfully connected
	Slow Blinking	Pairing failed
	Fast Blinking	Low battery
	Keeping solid on for 2s and off	The rangefinder is powered off successfully.

IV. Battery Installation

- Rotate the battery compartment cover **(4)** counterclockwise.
- Place a CR123 3.7V battery into the compartment according to the label in the battery compartment, that is, the positive pole faces inward and the negative pole faces outward.
- Tighten the battery compartment cover **(4)** clockwise.

Safety Instructions

- Use the device within the recommended temperature range from -4°F to +122°F. The battery life may be impaired when using beyond this temperature range.
- The battery capacity drops when the device is used below zero. This is normal and does not indicate a defect.
- The device is built with low power shutdown protection: When the battery voltage is lower than 2.8V, the device will automatically shut down with a 30s countdown prompt.

V. LRF Installation and zeroing

- Install the LRF mount on LEAP.
- Install the LRF on mount, keep the power button on the top.
- Turn on the LEAP device.
- Turn on the laser rangefinder with a long press of the Power button **(7)** for 2s.
- Double click the power button **(7)** to enable the laser red dot.
- Adjust the LRF direction until the red dot coincides with the aiming position of the reticle. The aiming point must be greater than 30m, and the farther the distance, the better.
- Tighten the screw on the LRF mount to prevent any changes in the direction of the LRF during shooting.

VI. Linkage and Usage with LEAP

- Turn on the Bluetooth function on the LEAP.
- Turn on the laser rangefinder with a long press of the Power button **(7)** for 2s.
- When the laser rangefinder module is on, it will automatically search and connect with your LEAP series scope.
- When the LED indicator **(6)** on the rangefinder switches from blinking (green) to solid green for 3s and then off, it means the connection is successful.

- Press the **Power button (7)** to enable or disable the rangefinder function, the distance value will display on the screen of LEAP series, when the rangefinder function is enabled.
- Press the **Power button (7)** twice to turn on or off the red laser indicator **(2)**.
- After use, long press the **Power button (7)** to power off the rangefinder.

- For details about linkage and usage with LEAP series, please refer to the user manual of your LEAP series scope.

Attention

Do not point the laser indicator directly toward human eyes or faces.

To comply with RF exposure requirements, a minimum separation distance of 20.00 cm must be maintained between the user's body and the equipment, including the antenna.

VII. Legal and Regulatory Information

Wireless transmitter module frequency range:

Bluetooth: 2.402–2.480 GHz

Power of Bluetooth module: <8 dBm

Regulatory information USA

FCC ID: 2A7ZZ-4D-ILR

Labeling requirements

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information to the user

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

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'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 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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Certification label

And it is a Class llla laser product that complies with 21 CFR 1040.10 and 1040.11 except for conformance with lEC 60825-1 Ed. 3, as described in Laser Notice No. 56dated May 8,2019.