

INFRAY OUTDOOR
ILR-1000

Infrared Laser Rangefinder Module



Infrared Laser Rangefinder Module

ILR-1000
INFRAY OUTDOOR

Quick-Disconnect Picatinny STD-1913 Mount
Ensures dead-nuts repeatability and ease of use.

USB Data/Power Cable
Simple battery and button free design.

Infrared Laser Send Port
SGL (single ranging) and CONT (continuous ranging) modes.

Rugged Aluminum Body
At less than 9 ounces it wont weigh you down.

Infrared Laser Receive Port
Multi-coated lens allows for accurate measurement to 1000 Yards.

Red Visible Laser
Easy daytime collimation of infrared aiming reticle.

InfiRay Outdoor
800 Railhead Road #316
Fort Worth Tx 76106
800-769-7125
682-499-0047
info@irayusa.com

InfiRay Outdoor

CAUTION

THIS PRODUCT IS A CLASS 3R LASER PRODUCT

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This product has no user serviceable parts.

Do not point laser or allow laser light to be directed or reflected toward other people or reflective objects.

Operators should be trained to not target the eyes of people, animals and pets or aim at reflective objects etc.

There is a potential hazard of eye or skin exposure to laser radiation if the included instructions are not followed.

This laser is never to be operated if the unit is defective or the cover or seal is damaged.

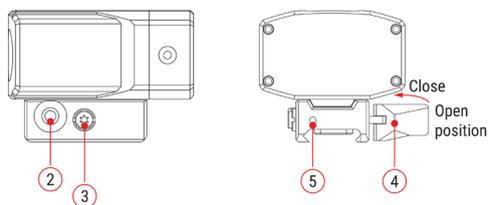
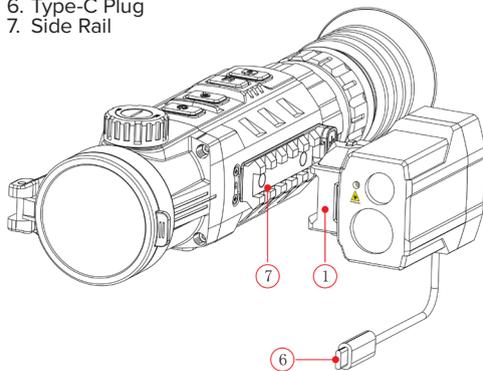
Always install the ILR-1000 module with the aperture pointed downrange.

LASER INDICATOR AND RANGEFINDER (RangeFinder Module Required/Sold Separately)

The RICO series supports the use of an optional Infrared Laser Rangefinder Module (ILR) for laser indication and range finding, allowing users to measure distances to objects up to 1000 Yards away. To ensure safe and proper operation of the ILR, do not attempt to install or use the ILR until you have read and understand all warnings, directions, and guidance in this manual. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

COMPONENTS

1. Rifle Mount
2. Clamp Button
3. Retaining Nut
4. Clamp
5. Lock Screw
6. Type-C Plug
7. Side Rail



MOUNTING PROCEDURE

Press the clamp button (2) on the rifle mount (1) of the rangefinder module until the clamp (4) is pushed out.

Move the clamp (4) to the OPEN position and relieve the retaining nut (3) of the clamp (4) using a T15 Torx wrench.

Install the ILR-1000 module on the side rail (7) of your RICO Riflescope, with the aperture pointed downrange.

Move the clamp (4) from the OPEN position to the CLOSE position.

Rotate the retaining nut (3) of the clamp (4) with the Torx wrench while making sure that the mount (1) is securely attached to the rail without any gaps.

Tighten the retaining nut (3) counter-clockwise with the Torx wrench to lock the clamps (4).

Move the clamp (4) to the OPEN position; you should be able to easily remove the module from the rail.

Then tighten the lock screw (5) on the back of the mount with a 1.5mm hex wrench.

Connect the UBS-C plug (6) of the ILR module to the USB-C port on the RICO to finish the installation.

LASER RANGEFINDER FUNCTION

Utilizing the controls of the RICO Riflescope, press and hold the Up and Down button simultaneously in the home screen to turn the laser rangefinder function on/off.

Once on, the ranging cursor will appear on the screen. In the top right corner of the display dashes of distance values and the measurement unit. The ranging mode is also displayed on the left of the values.

The RICO series has two ranging modes: SGL (single ranging) and CONT (Continuous ranging). Briefly press the Up and Down button simultaneously to switch between the SGL (the default mode) and CONT mode.

In the SGL mode, briefly press the Power button to measure the target distance. In SGL mode, the manual calibration function is not available.

In the CONT mode, measurement readings will be refreshed every second until turned off. The manual calibration function is available in CONT mode.



When ranging targets is further than 1000 Yards, the words MAX will appear in the ranging values.

To exit the LASER rangefinder function, press and hold down the Up and Down button simultaneously.

LASER INDICATOR

In the rangefinder mode, press and hold the M and Down button simultaneously to switch the laser indicator on/off.

RANGEFINDER CALIBRATION

It is required to calibrate the rangefinder cursor after the first installation. Failure to do so will result in the target position of the laser being out of aligned with the center of the rangefinder cursor on the screen.

Set a target downrange of RICO, then press and hold down the M button to enter the Main Menu.

Select the Rangefinder menu option with the Up/Down button.

Enter the Rangefinder Calibration interface with a short press of the M button, you will notice the visible laser indicator will be switched on automatically.

A cross cursor will appear on the screen instead of the ranging cursor.

Move the cross cursor to the position of the visible laser down range.

Press and hold the M button to save and exit to the home screen.

NOTE

The laser indicator will not be activated automatically in the laser rangefinder function.

To set the measurement units (meters or yards), go to Settings in the Main Menu.

LASER OPERATION

NOTE

The accuracy of measurement and maximum range of measurement depend on the reflection ratio of the target surface, the angle at which the emitting beam hits the target surface and environmental conditions.

Reflectivity is also affected by surface texture, color, size, and shapes of the object. Usually, a glossy and bright surface presents higher reflectivity than a dull and dark surface.

Accuracy of measurement can also be affected by illumination condition, fog, smog, rain, snow etc.

Ranging performance can degrade in bright condition or when ranging towards the sun.

This Laser Product is designated as Class 3R during all procedures of operation.

Wavelength 630nm - 670nm
Laser Power for classification <5mW (4mW typical)
Emission Type CW and Pulsed
Pulse Width 18nSec
Pulse Repetition Frequency 1kHz
Beam Diameter <3mm at aperture
Divergence <1mRad

VISIBLE AND INVISIBLE LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT

NOTE

There is no scheduled maintenance or service necessary to keep this product in compliance and no user service or maintenance is required.

There is no service required or allowed of this product by the end user.

This product is to be serviced or repaired only by factory authorized technicians.

This Product is not to be opened or modified by the user, nor is it allowed to attempt to cheat or defeat safety interlocks.

The user is not to modify the unit or remove protective covers or housing. Service is only to be handled by authorized factory trained technicians.