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Crimson Trace CTL-3420

Crimson Trace 3 Series CTL-3420 Tactical Riflescope User Manual

Model: CTL-3420

1. Overview

The Crimson Trace 3 Series CTL-3420 is a 4-20x50mm mid-range tactical riflescope designed for precision and reliability. It features a First Focal Plane (FFP) LR1-MIL advanced illuminated reticle and high-quality Japanese ED Glass for exceptional clarity. The scope is constructed from a single piece of 30mm anodized aluminum, ensuring durability in demanding environments. Exposed 0.1 MIL tactical turrets provide precise adjustments for windage and elevation. Integrated EZ mount leveling indicators assist in quick and accurate mounting.

2. Included Components

Upon unpacking your Crimson Trace CTL-3420 riflescope, verify that all components are present:

- Riflescope (CTL-3420)
- Battery
- System Manual
- Reticle Manual
- System Tools
- 2x Flip Caps
- Lens Cleaning Cloth

3. Setup

3.1 Mounting the Riflescope

Ensure the riflescope is securely mounted to your rifle using appropriate rings and bases (not included). The CTL-3420 features integrated EZ mount leveling indicators to facilitate quick and precise alignment during installation. Align these indicators to ensure the reticle is perfectly level with your rifle.

3.2 Diopter Adjustment

Adjust the diopter ring located at the eyepiece to achieve a sharp, clear view of the reticle. Look through the scope at a plain background (like a clear sky or a blank wall) and rotate the diopter ring until the reticle appears crisp and in focus. This adjustment is personal and should be set for your individual eyesight.

3.3 Battery Installation

The CTL-3420 features an illuminated reticle. Install the provided battery into the illumination control knob according to the instructions in the reticle manual. Ensure correct polarity.



Figure 1: Crimson Trace CTL-3420 Riflescope with key features labeled, including diopter adjustment, magnification ring, 30mm tube, 11x illumination settings, side adjustable focus, nitrogen purged, 6061-T6 aircraft grade aluminum single piece tube, resettable zero, fully multi-coated ED glass, proprietary MoC3 optical coating, precise .1 MIL graduations, 20 MIL total adjustment range, and leveling indicators.

4. Operating Instructions

4.1 Magnification Adjustment

The CTL-3420 offers a 4-20x magnification range. Rotate the magnification ring, typically located near the eyepiece, to adjust the power. The First Focal Plane (FFP) reticle scales with magnification, ensuring holdover points remain accurate at any power setting.

4.2 Reticle Illumination

The LR1-MIL reticle is fully illuminated. Use the illumination control knob to turn the illumination on/off and adjust its brightness. There are 11 illumination settings to suit various lighting conditions.

4.3 Windage and Elevation Adjustments

The riflescope features exposed 0.1 MIL tactical turrets for precise adjustments. Each click of the turret moves the point of impact by 0.1 MIL. The turrets are designed for a precise and rugged feel, allowing for confident adjustments. After zeroing, the turrets can be reset to zero for easy reference.

4.4 Side Adjustable Focus (Parallax)

The side parallax adjustment knob allows you to eliminate parallax error and achieve a clear image at various distances. Rotate the knob until the target image appears sharp and the reticle does not shift relative to the target when you move your head slightly.

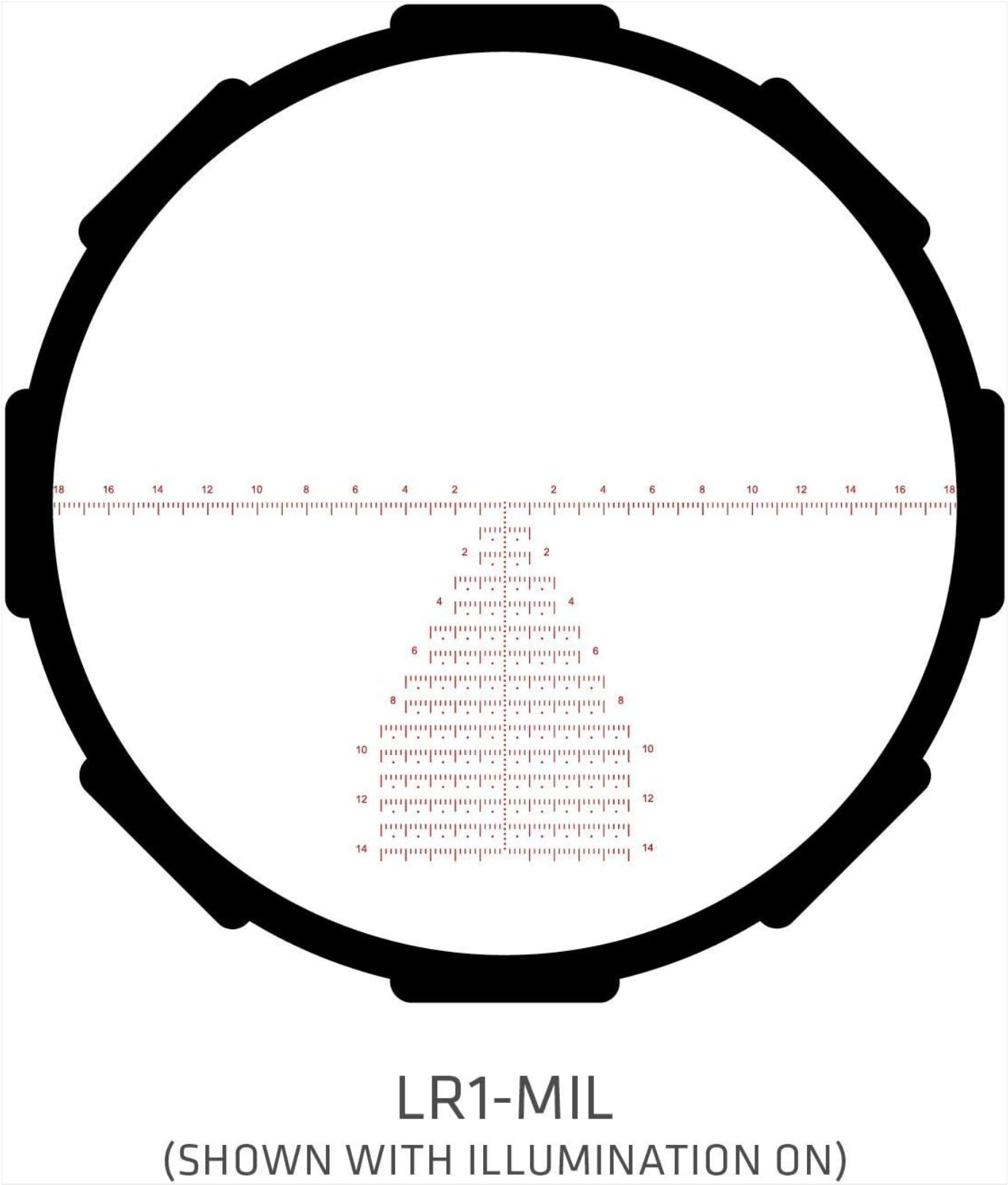


Figure 2: The LR1-MIL reticle with illumination activated, showing detailed holdover points for precise targeting.

4.5 Product Overview Video

Watch this official video for a visual overview of the Crimson Trace 3 Series Riflescopes, including key features and benefits.

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Video 1: An overview of the Crimson Trace 3 Series Riflescopes, highlighting features such as First Focal Plane reticles, Japanese ED Glass, and durable construction.

5. Maintenance

5.1 Cleaning

Use the provided lens cleaning cloth to gently wipe dust and smudges from the lenses. For stubborn dirt, use a lens cleaning solution specifically designed for optics. Avoid using abrasive materials or harsh chemicals, as these can damage the lens coatings. Keep the exterior of the scope clean with a soft, damp cloth.

5.2 Storage

Store the riflescope in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the flip caps are in place to protect the lenses from dust and scratches.

6. Troubleshooting

6.1 Reticle Not Illuminating

If the reticle does not illuminate, check the battery. Ensure it is correctly installed with the proper polarity and has sufficient charge. Replace the battery if necessary.

6.2 Blurry Image

If the image appears blurry, first adjust the diopter for reticle clarity, then adjust the side parallax knob for target image sharpness. Ensure the magnification is set appropriately for your viewing distance.

6.3 Point of Impact Issues

If you experience inconsistent point of impact, verify that the scope is securely mounted and that all rings and bases are tightened to the manufacturer's specifications. Ensure turrets are not accidentally bumped or moved. If issues persist, consult a qualified gunsmith.

7. Specifications

Feature	Specification
Brand	Crimson Trace
Model Name	Crimson Trace Optics Tactical Riflescope 4-20x50mm MIL/MIL FFP with LR1-MIL with Illuminated Reticle, 3 Series CTL-3420
Model Number	CTL-3420
Magnification	4-20x
Objective Lens Diameter	50 Millimeters
Reticle Type	LR1-MIL (Illuminated, First Focal Plane)
Adjustment Click Value	0.1 MIL
Material	Aluminum (6061-T6 Aircraft Grade)
Tube Diameter	30mm
Item Weight	3.76 Pounds

Color	Black
Field Of View	28.9 Feet
Mounting Type	Extruding Mount
Compatible Devices	Rifle
UPC	850002469134

8. Warranty & Support

All Crimson Trace 3 Series riflescopes are covered by a Full Lifetime Warranty. This warranty ensures your product is free from defects in materials and workmanship for the lifetime of the original owner. Additionally, Crimson Trace provides free batteries for life for your illuminated reticle.

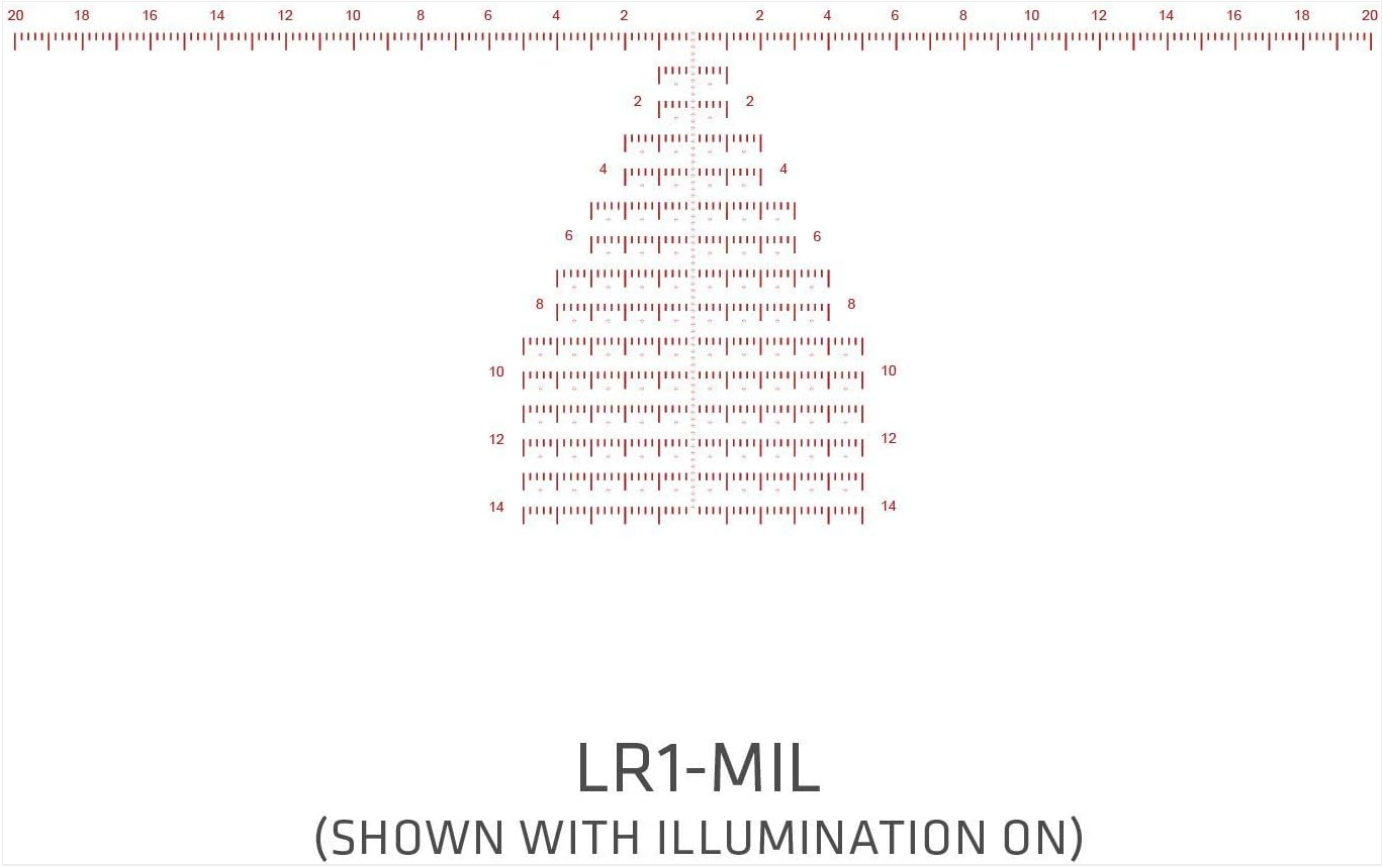


Figure 3: Crimson Trace offers a Full Lifetime Warranty and Batteries for Life for their products.

For detailed warranty information or to register your product, please visit the official Crimson Trace website: crimsontrace.com/support/warranty.
For further assistance or technical support, please contact Crimson Trace customer service.

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