

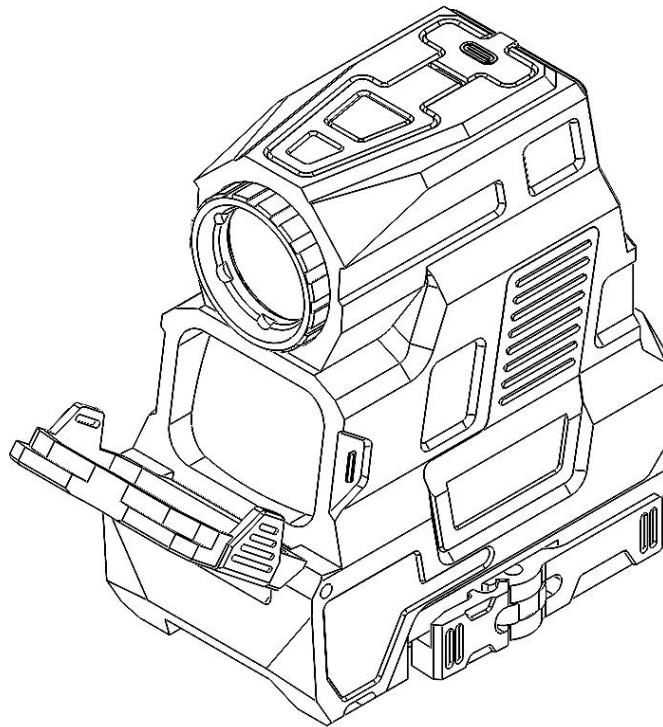
Red-dot Thermal Imaging Fusion Sight

User Operation Manual



V1.0

1 Product Features



- Thermal fusion night-vision capability for day- and- night operation;
- Multiple reticle styles: red dot, red circle, dot-and- circle;
- Multiple infrared image modes: black- hot, white- hot, outline;
- Full- metal CNC machined construction for superior stability;
- Black hard- anodized surface treatment for enhanced durability;
- Large effective display window for easier aiming;
- Quick- detach lever mechanism for easy installation and removal。

2 Product Overview

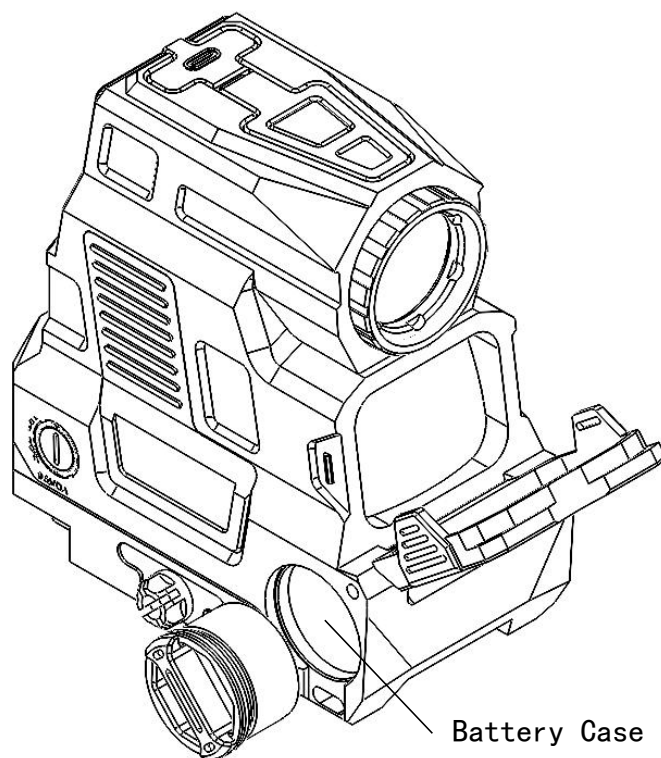
The red-dot infrared fusion sight is fitted on submachine guns, assault rifles and other weapon platforms. It adopts a 1× optical system and supports fast both-eye open-sight aiming. Assisted infrared target enhancement technology facilitates target detection and enables day-night usability. It delivers optimal performance for urban combat and close-quarters battle (CQB), improving shooter operational capability.

3 Technical Specifications

Model		
Optical Performance	Magnification	1X
	Display Window Size	30mm×23mm
	Reticle Types	Red dot / Red circle / Dot- and- circle
	Red-dot Size	≤3MOA
	Parallax	≤2MOA
Electrical Performance	Battery	CR123A
	Continuous Runtime (Red- dot Only)	≥10000 hours
	Runtime(Fusion Mode)	≥6 hours
	Brightness Setting	15 levels for daytime / 5 levels for night- vision (red- dot mode)
	Real- time Battery Indicator	Supported
Infrared Characteristics	IR Detector Type	Uncooled Vanadium Oxide
	Detector Resolution	256×192(384×288/ 640×512)
	Detector Pixel Pitch	12μm
	Display Type	OLED
	Display Resolution	1024×768
	IR Lens Focal Length	19mm
	Field of View	9°x6.7°
	Display Modes	Black-hot, White-hot, Outline
Mechanical	Material	Aerospace-grade Aluminum Alloy

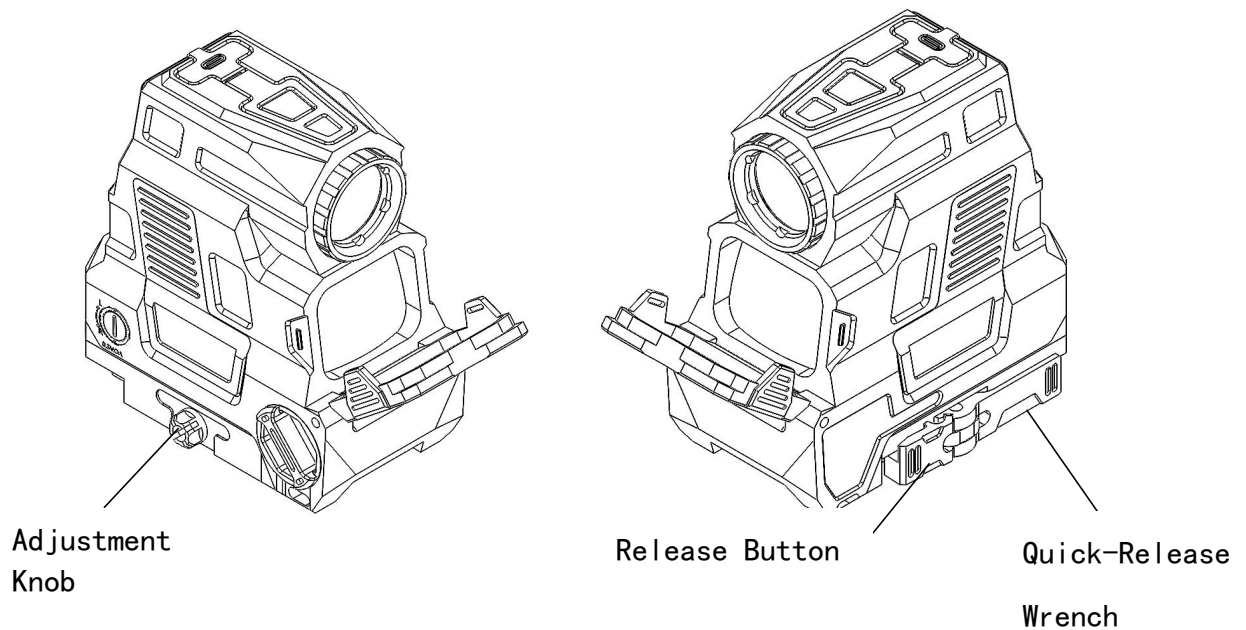
Parameters	Manufacturing Process	CNC Machining
	Surface Finish	Black Anodization
	Click Adjustment Range	±40MOA(Elevation & Windage)
	Click Adjustment Increment	0.5MOA
	Mount Interface	Picatinny Rail
	Overall Dimension	≤95mm×55mm×90mm
	Sight Line Height	38mm
	Weight	450g
Environmental Specifications	Operating Temperature	-20℃~+65℃
	Storage Temperature	-40℃~+70℃
	Ingress Protection	IP67

4 Ingress Protection



Locate the battery compartment and open the battery-compartment cover. Insert the CR123A battery with the positive terminal facing inward.。 (Note: This unit is compatible with both 3 V and 3.7 V batteries)

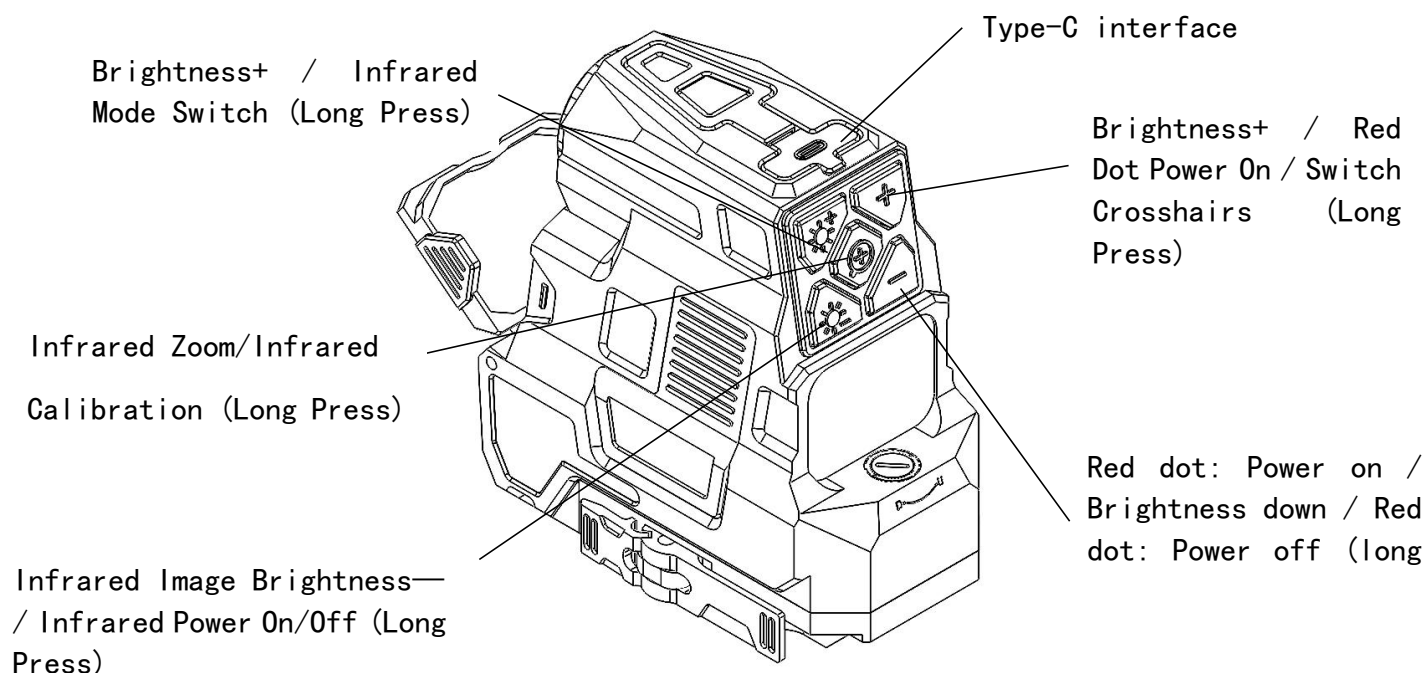
5 Sight Installation



This sight features a standard Picatinny interface together with a quick-detach lever assembly.

1. Press the release button and flip the quick-detach lever outward to disengage the locking mechanism.
2. Flip the quick-detach lever inward to secure and lock the unit.
3. If mounting onto the rail is obstructed, turn the adjustment knob counter-clockwise to enlarge the locking clearance for compatibility with Picatinny rails.
4. If looseness occurs after locking to the Picatinny rail, rotate the adjustment knob clockwise to achieve firm and stable clamping.

6 Sight Operation



(1) Infrared Function Operation

Power-on: Under power-off state, short-press the IR power key  for approx. 0.5 s to power on infrared module.

Brightness Adjustment: Short-press " " to increase brightness; Short-press " " to reduce brightness, Total of 10 brightness levels.

Mode Switching: Long-press " " brightness-plus key (approx. 5 s) to cycle among Black- hot / White- hot / Outline modes.

Zoom & Non- uniformity Correction: Short-press " " to toggle magnification among 1×, 3× and 5×, Long-press " " to trigger infrared non- uniformity correction (use when image abnormality occurs) .

Power-off: Long-press " " for 6- 10 s to shut down infrared function.

Low- battery Warning: An empty flashing battery icon  at the upper- right corner of screen indicates low battery; replace battery promptly.

- External Power Supply: Use the Type-C port on top of the sight for external power input (power bank compatible).

Attention: This Type-C port only supports external power supply and cannot recharge the internal battery.

(2) Red-dot Function Operation

Power-on: Under power-off status, Short-press “+” or “—” to activate red-dot reticle.

Brightness Adjustment: Press “+” to increase reticle brightness, press “—” to decrease brightness, Total of 20 brightness levels.

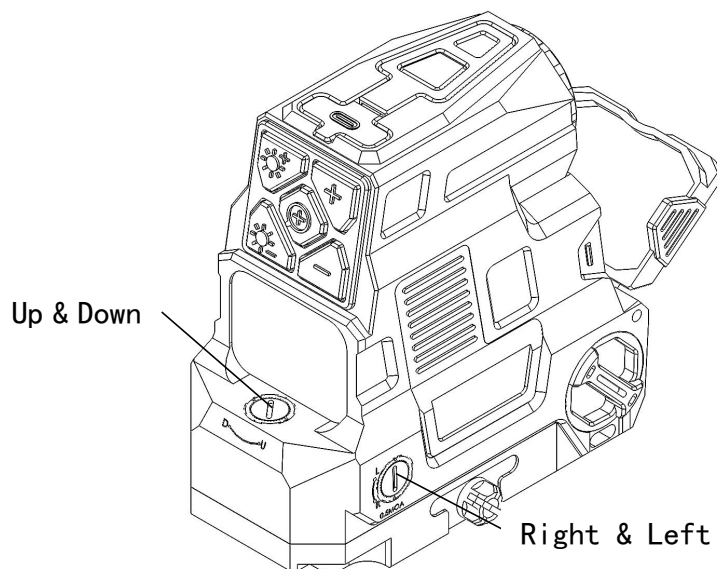
Reticle Selection: Long-press “+” to cycle reticle styles: dot → circle → dot-and-circle.

Power-off: Long-press “—” to turn off red-dot function.

Low-battery Warning: When remaining capacity falls below 5 %, the reticle will blink continuously. Replace battery as soon as possible.

Auto-power-off: Red-dot will shut down automatically after 30 minutes without user operation.

(3) Zeroing



Zeroing : Adjust elevation and windage via live-fire testing. Each click corresponds to 0.5 MOA.

- If impact point is low: Turn elevation knob counter-clockwise (towards “U” mark).

- If impact point is high: Turn elevation knob clockwise (towards “D” mark).
- If impact point is to the left: Turn windage knob counter- clockwise (towards “R” mark).
- If impact point is to the right: Turn windage knob clockwise (towards “L” mark).

Click Distance Reference Chart			
Click Value	Zeroing Distance		
	25m	50m	100m
0.5MOA	3.6mm	7.3mm	14.5mm
1MOA	7.3mm	14.5mm	29mm
2MOA	14.5mm	29mm	58mm

7 Sight Maintenance

Perform maintenance at least twice per year, covering the following items:

- Wipe metal and plastic exterior surfaces with cotton cloth dampened with water, soapy water or alcohol to remove dirt and dust.
- For optical lens surfaces: First blow off large- size particles with air blower; then apply professional lens-cleaning tools and solvent for fine cleaning of optical surfaces.
- Clean battery compartment with appropriate organic solvent.
- If the sight will be stored long- term, power it on for functional check every three months.

8 Safety Precautions

- This device contains batteries. Keep away from open fire; operate strictly within specified environmental limits.
- Store in dry conditions and avoid moisture ingress.
- Periodically verify screw torque and full functional performance.
- Handle with care; avoid heavy physical impact.