

Thermal + Night Vision Fusion Monocular G1A



Catalogue

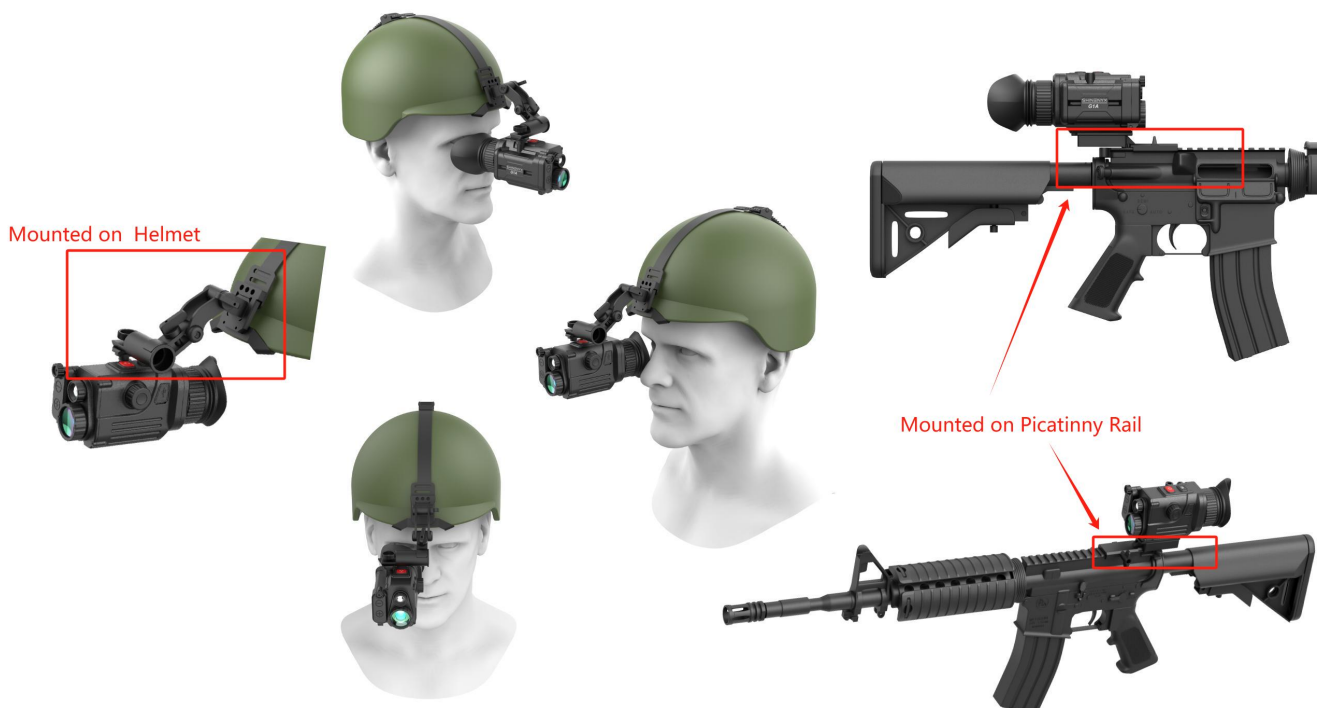
Project	Content	Page
	Cover	1
	Catalogue	2
	Revision History	2
1	Product Overview	3
2	Product Features	4
3	Product Parameters	4-5
4	Product Illustration	5-6
5	Product Usage	7-8
6	Menu Interface	8-9
7	Operation Instruction	9-10
8	Precautions	10-11
9	Package and Accessories	11

Revisions History

Versions	Revisions History	Comment
1.0	First Edition	2024.05.15
1.1	Revised Edition	2025.04.07
1.2	Revised Edition	2025.06.11
1.3	Revised Edition	2026.04.09

1. Product Overview

The Shinenyx G1A Thermal + Night Vision Fusion Monocular is a cutting-edge tool for professionals seeking superior vision and detection in low light environments. Its real-time Fused Image Technology (F.I.T.) seamlessly integrates thermal and night vision. Rapid Target Outline (RTO) function simplifies the user's ability to lock onto targets with speed. 50Hz high frame rate and low latency design eliminates lag and ensures fluid movement tracking. Proprietary Shinenyx E2E 7-Aspherical-lenses providing distortion-free, edge-to-edge clarity with wide 60.4 degree field of view. 2.1 inch High-resolution LCD and pancake eyepiece bring bright, clear and immersive visuals. the G1A delivers unparalleled clarity and situational awareness in moonless night without artificial illumination. Compact and lightweight at just 16.76 ounces, it can also be used as fast aiming scope or goggle. Designed for tactical operations, search and rescue, and security, the G1A is both durable and user-friendly, featuring an intuitive interface and long-lasting battery life.



2. Product Features

- RTO - Rapid Target Outline Technology
- FIT - Fused Image Technology
- 1x, 2x, 4x digital zoom capability
- Superior optics and digital processors
- Tactical and light, easy to carry
- Easy to use

3. Product Parameters

G1A				
Dual-camera		Night Vision	Thermal	Fusion
Image Sensor	Resolution	1600×1200	640×480	1600×1200
	Detector Size	1.7 inch	0.6 inch	/
	Imaging Mode	Black&White	White Hot	Colorful Fusion / Colorful Negative Fusion
	Recognition Enhancement	RTO (Outline Heat Target)		
	Frame Rate	50Hz		
Objective Lens	Focal Length	16.5mm	5.45mm	/
	Field of View	60.4°x47.1°	60.4°x47.1°	60.4°x47.1°
	Focus Method	Manual Rotation		
Viewfinder		2.1inch, 1600×1200 LCD Screen		
Detection Range	Hog Target	Up to 150 yards		
Other Features	Electronic Compass	Available		
Interface	USB-C	Power Supply / Battery Charge / Firmware Update		
Operational Characteristics	Magnification	1x/2x/4x		

	Power Supply	2 x 18650 batteries / USB-C Interface
	Battery Life	Up to 6 hours
	Ingress Protection	IPX5
	Operating Temperature	-20° F~+110° F
	Weight	As Monocular 17ounces, As Goggle 18 ounces, As Scope 21ounces
	Dimension	With Eyepiece Cover: 177 x 74 x 68(mm)
	Recoil Resistance	Maintain Zero After 7.62 x 51 NATO 1000 Shoots

4. Product Illustration





5. Product Usage

Thermal Imaging

Objective lens

The Battery
Compartment

Night Vision
Objective lens

Menu

Mount

Power

Mode

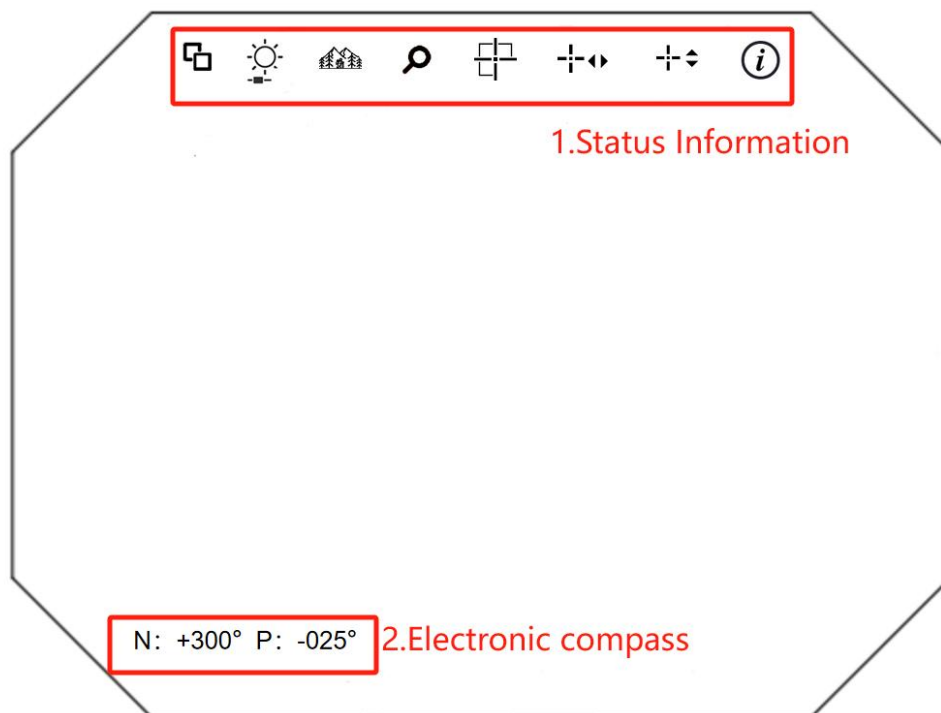
Helmet holder

USB interface

Eyepiece

- (1) Open the battery compartment cover and install the batteries correctly according to the positive and negative polarity.
- (2) Press and hold the <Power> button for 3 seconds to turn on the device. The target can be viewed through the eyepiece. (To turn off, press and hold the <Power> button again for 3 seconds)
- (3) Rotate the eyepiece to adjust the view until the cursor on the screen is absolutely clear.
- (4) In night vision and thermal imaging modes, rotate the corresponding objective lens until the object is absolutely clear and the focus is completed. For fusion mode, focus must be done in low light and thermal imaging modes first.
- (5) Rotate the side knob (in menu-off mode) to adjust the digital magnification (1.0X, 2.0X, 4X).
- (6) Short press the <Mode> button, the working modes will cycle in the following order: Fusion2, Thermal Imaging, Low Light and Fusion1 modes.
- (7) Short press the <Menu> knob, and the menu icon will appear on the screen. Rotate the <Menu> knob to select the menu item, then press the <Menu> knob to confirm the selection.

6. Menu Interface



(1) Status Information (As shown above) :

- Mode
- Display Brightness
- RTO (Rapid target outline)
- Digital Zoom
- Crosshair Style
- Crosshair Horizontal Position Adjust
- Crosshair Vertical Position Adjust
- Version information

(2) Electronic compass :

- Azimuth
- Pitch Angle

7. Operation Instruction

Default instructions :

- Press the <Menu> knob to access the main menu
- Rotate the <Menu> wheel to select the menu item
- Press the <Menu> knob to confirm the selection
- Rotate to select the required gear, short press to determine

Item	Icon	Description	Number of Gears	Illustration
1		Mode	4	Mode: • 4 Modes: MIF 2 Mode(1), Thermal Imaging(2), Night Vision(3) and MIF 1 Mode(4). • Use <Mode> button to switch the mode.
2		Display brightness	6	Display brightness: • Brightness Levels: 1 to 6 (Level 6 being the brightest)

3		RTO (Rapid target outline)	3	Rapid target outline: • 0: No rapid target outline. • 1: Rapid target outline always on. • 2: On or off alternately
4		Digital Zoom	4	Digital Zomm (1X . 2X and 4X) • Rotate left side knob to switch (when menu-off) or press the button as usual • Default: 1X
5		Cross hair Style	5	Cross Hair • The cross hair can be switched between 4 different styles. • Default: 0 (off)
6		Cross hair Horizontal Position Adjust	1000	Crosshair Horizontal Position Adjust • Default: 000
7		Cross hair Vertical Position Adjust	1000	Cross hair Vertical Position Adjust • Default: 000

8. Precautions

- When the operating environment of the equipment changes from low temperature to high temperature, it is necessary to heat the equipment first. Otherwise, moisture may condense on the lens surface and affect its use.
- When the device is operated below -40 degrees, the battery must be placed in a warm place (such as a chest pocket) before turning it on.
- Accessories: Only use approved accessories and batteries. Do not use incompatible accessories.

- It is recommended to use high-quality 18650 batteries. Poor-quality batteries will affect the performance and easily damage the equipment.
- Try to avoid rain or fog, and prevent falling, bumping, and collision.
- Do not wipe the lens frequently. If you need to wipe it, please use lens paper or lens cleaning cloth.
- To prevent battery leakage, the battery should be removed, when the device is not used for more than two weeks.
- To avoid moisture exposure to the lens, the device should be placed in a dry, ventilated place.
- Only qualified maintenance personnel is allowed to install or repair this equipment.

9. Packaging and Accessories

- 1 x thermal+night vision fusion monocular
- 2 x 18650 rechargeable lithium batteries
- 1 x portable soft bag
- 1 x Rifle Mount (Option)