Thermal + Night Vision Fusion Monocular

M1 Pro

Catalogue

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Revisions History

Versions	Revisions History	Comment
1.0	First Edition	2025.12.30

1. Product Overview

The Shinenyx M1 Pro is a next-generation thermal and night vision monocular engineered for serious professionals and demanding enthusiasts. Powered by Fused Image Technology, the M1 Pro delivers four advanced viewing modes—Black and White night vision, White hot Thermal, Color Fusion, and Color Negative Fusion for unmatched situational awareness.

Built for versatility, the M1 Pro can be used as a handheld monocular, weapon-mounted scope, or integrated with the new Shinenyx Night Ops Glasses. A built-in laser rangefinder, IR illuminator for complete darkness, onboard video and audio recording, and removable rechargeable batteries make this optic as practical as it is powerful.

With 2/4/8x magnification, a generous 2.1 inch display, 640 thermal detector and military grade NV performance, the M1 Pro ensures no detail goes unnoticed. Its proprietary E2E Aspherical Lenses deliver distortion-free edge-to-edge clarity, while the exclusive Rapid Target Outline (RTO) technology highlights heat signatures with a red outline—giving you instant, precise target acquisition in any environment.

For extended operations, pair the M1 Pro with Shinenyx smart sync Glasses. The monocular mounts directly to a helmet and connects to the glasses via the included USB-C to USB-C cable, enabling comfortable, hands-free surveillance or long-duration hunts.

The M1 Pro isn't just another optic—it's a complete thermal + night vision solution built for those who demand performance, reliability, and adaptability.

2. Product Features & Advantages

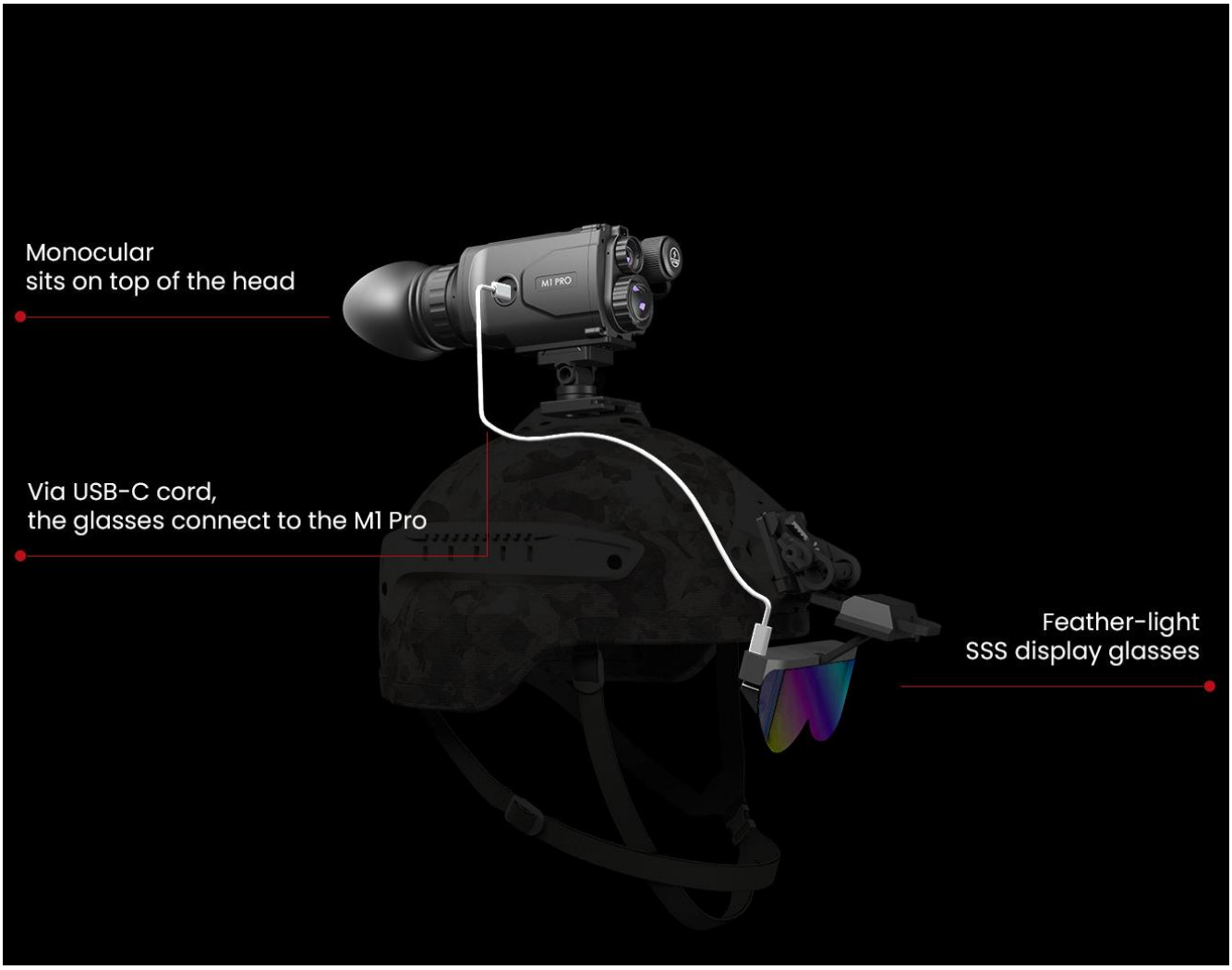
- **Shinenyx Smart Sync (SSS) Technology**

Carried on a neck strap or in a bag, they swing, bump, and become cumbersome to access-especially in the dark or when hands are full.

Convenient for hands-free use, but heavy and front-loaded. A pound on your face requires a counterweight on the back of your head. Even slight movement shifts the eyepiece, forcing constant readjustment and causing fatigue.

- **Freedom Through Separation**

SSS Technology separates the imaging unit from the display unit, placing each where it performs best. The M1 Pro handles image capture, while lightweight glasses provide the display—delivering comfort, balance, and truly hands-free operation.



The Shinenyx Smart Sync Solution (SSS)

SSS re-engineers the system into modular components. The M1 Pro Monocular sits on top of the head, where the body naturally supports more weight. USB-C cord, the feather-light SSS display glasses connect to the Mi Pro and are worn like regular glasses, maintaining a comfortable fit even during hours of continuous use. This optimized weight distribution keeps vision stable and clear, without the frustration of constant adjustments.

- **Transparent, Dual-World Vision**

The display in SSS glasses is not just stereoscopic—it's transparent. Hunters can see both

the monocular thermal DNV (Digital Night Vision) image and the real world simultaneously, eliminating the limitations of traditional optics: (a) No need to refocus when shifting from distant targets to close tasks. (b) No more flipping devices up and down to switch perspectives. (c) Operate gear, check surroundings, and track game seamlessly.

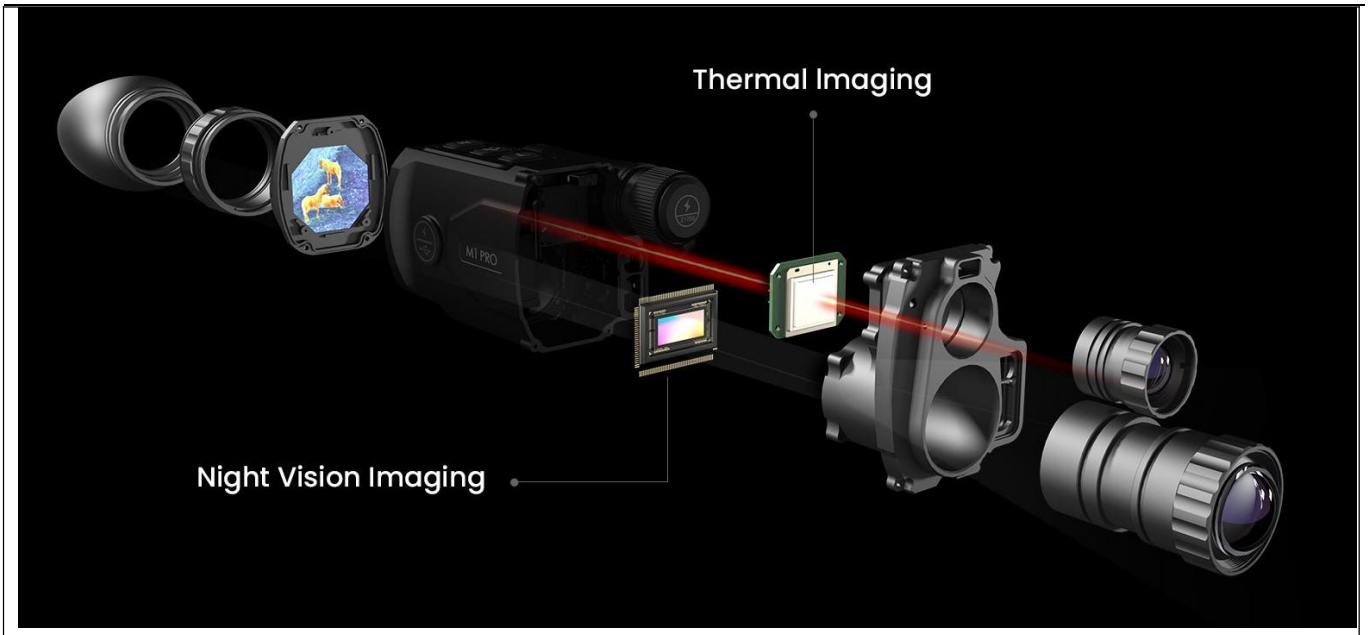
- **Proven in the Field**

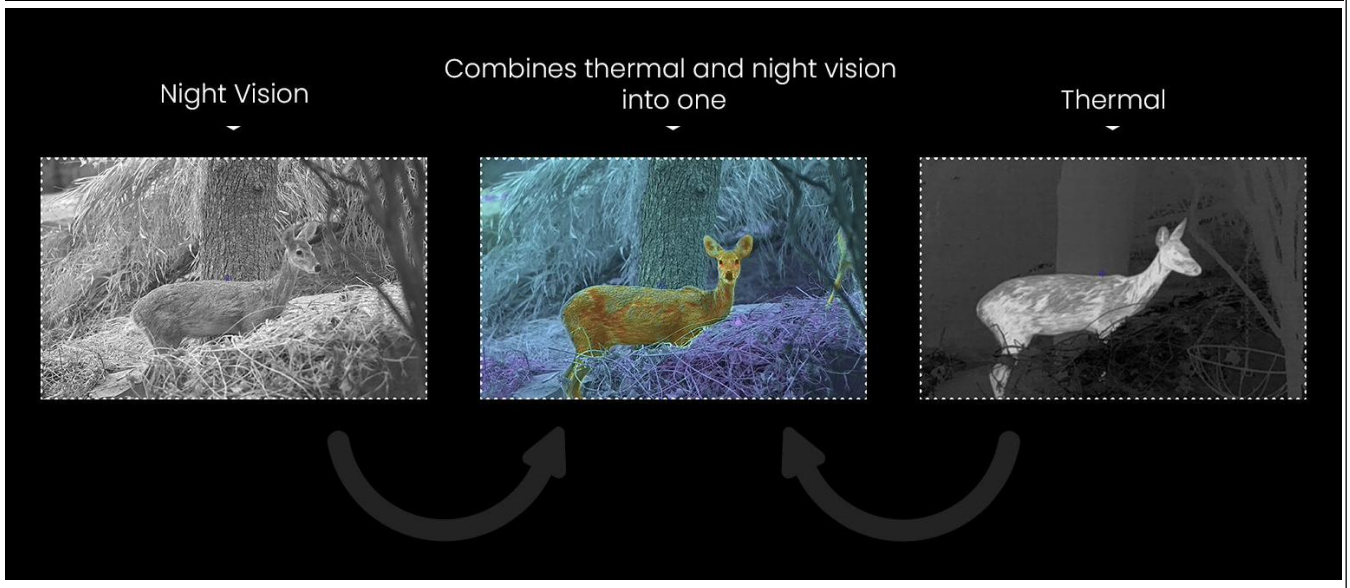
During night bowhunting tests, our team wore the M1 Pro paired with the SSS glasses. We clearly observed Wild Hogs on a hillside under starlight while simultaneously performing close actions-nocking arrows, drawing the bow, and aiming-all without removing or adjusting the system. The result: a clean shot at 47 yards.

Shinenyx Smart Sync marries comfort, clarity, and capability-redefining what's possible with night vision and thermal hunting.

- **FIT - Fused Image Technology**

Solving the Day-Night Dilemma. The M1 Pro seamlessly blend thermal imaging and night vision in real time into a single, perfect image, allowing you to switch between the two or merge them together.





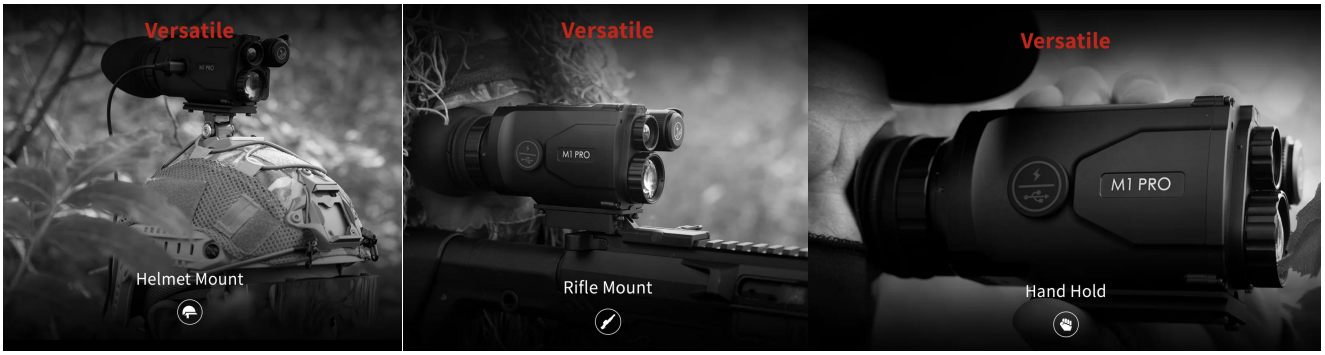
- **RTO - Rapid Target Outline Technology**

Locking on target has never been this easy.

RTO Mode *Normal Mode*

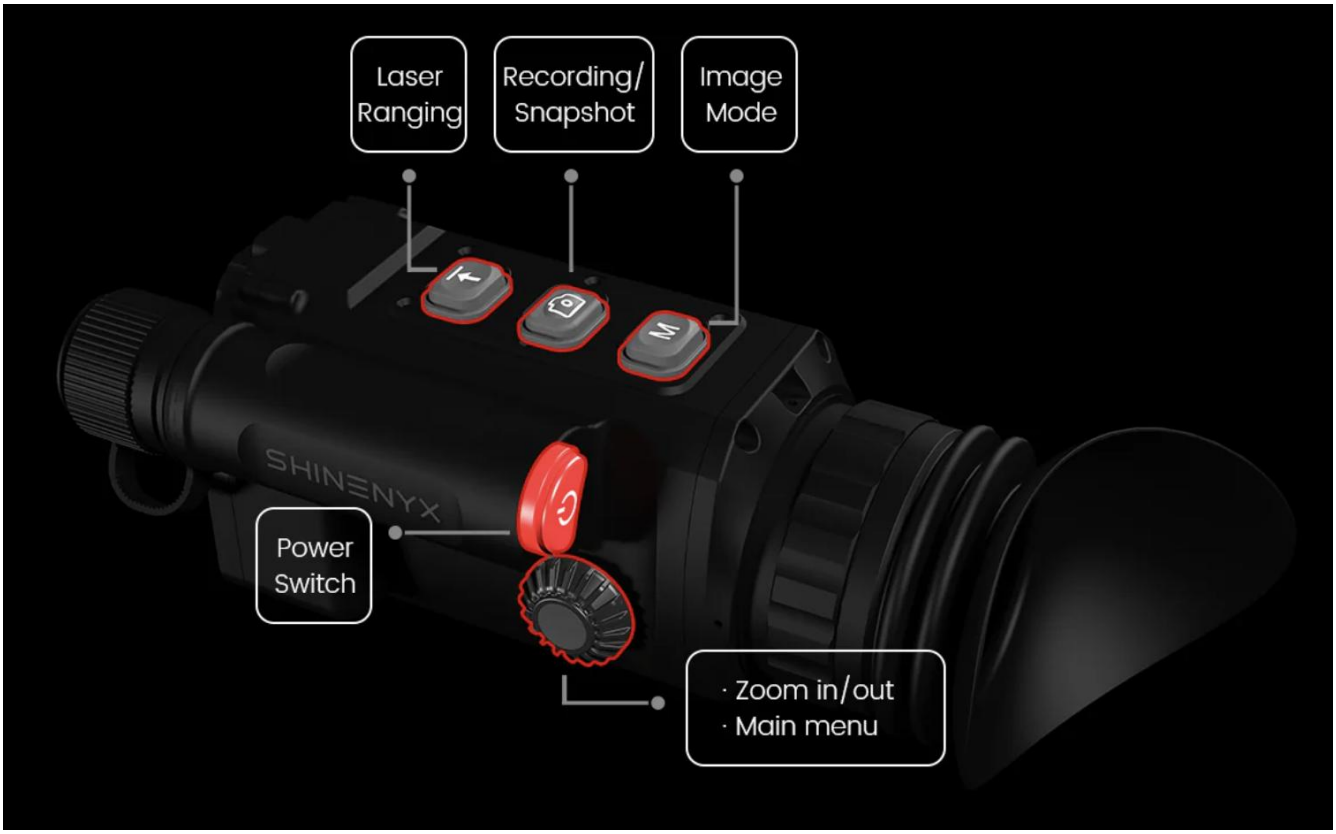
- **Superior optics and digital processors**

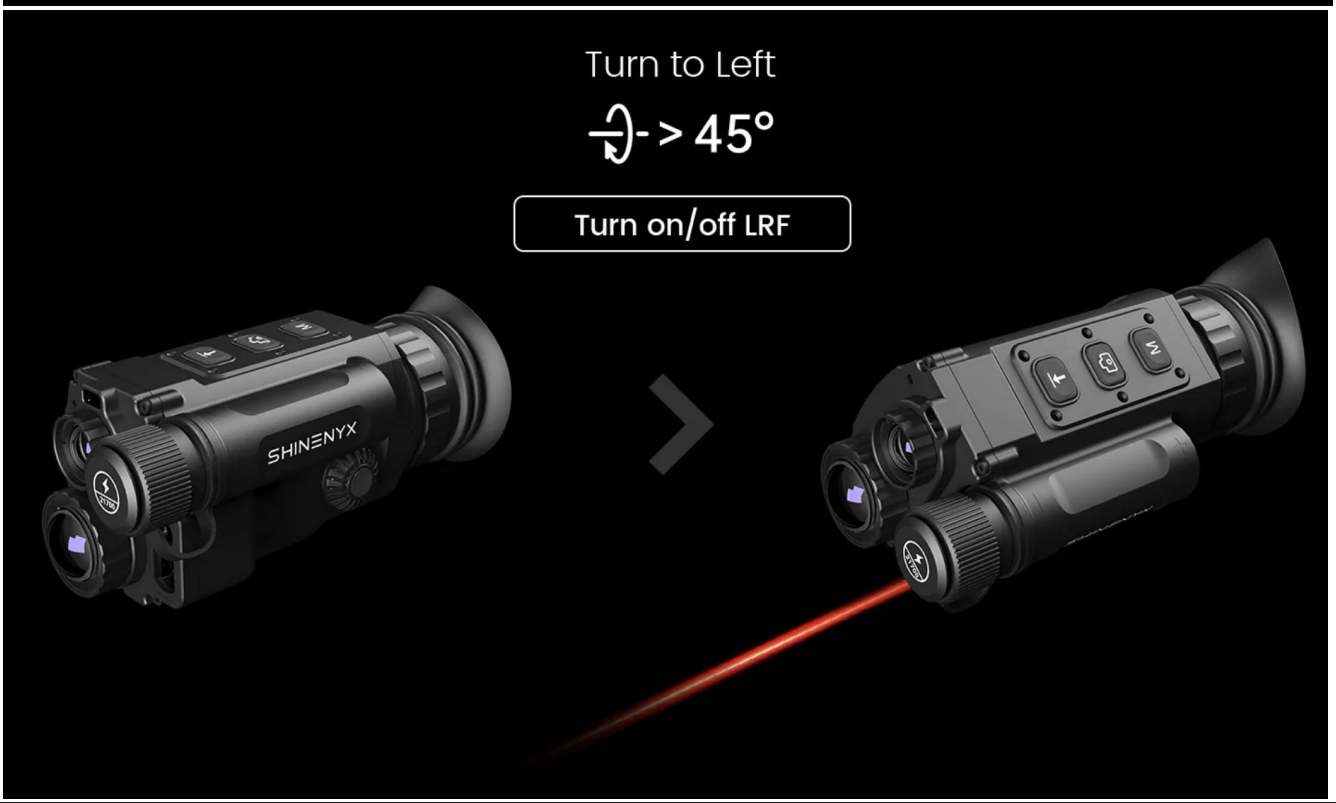
2.1 inch Screen offers VR Cinema Level Visual. 10X bigger than competitors', 0.7/0.5/0.39 inch nail-sized gadgets.

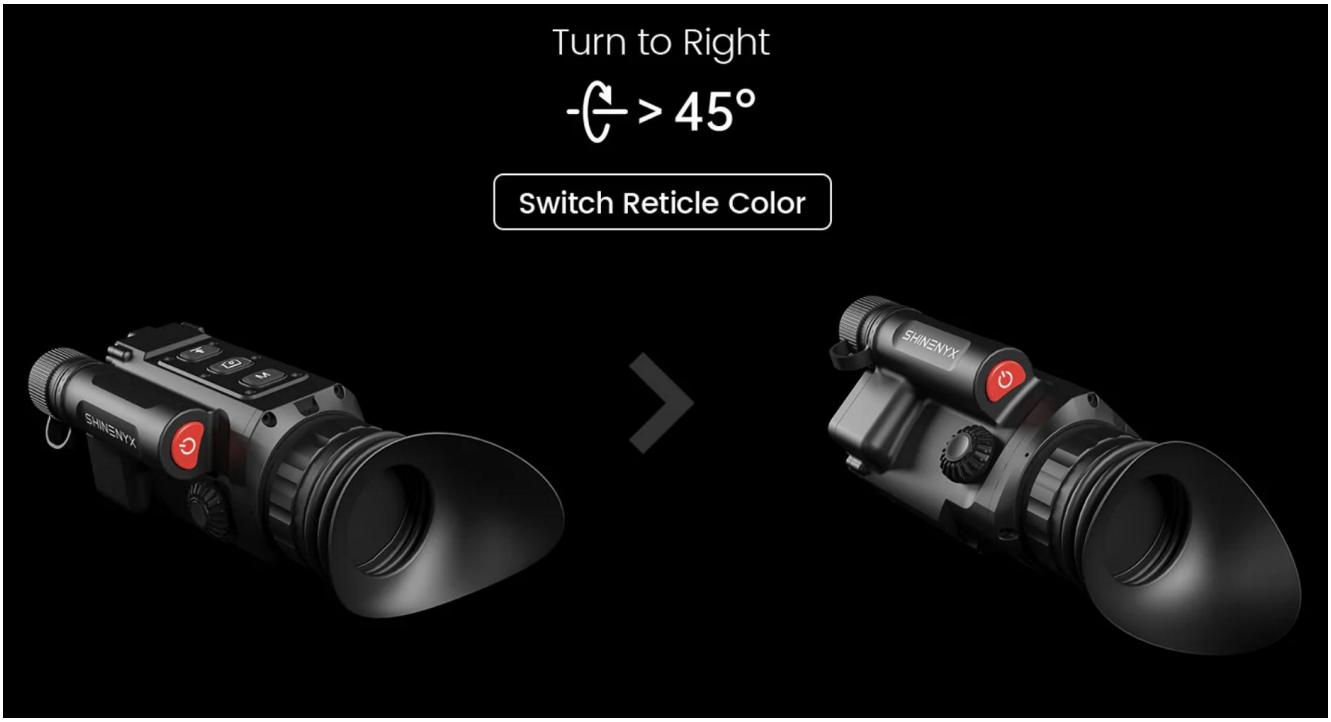


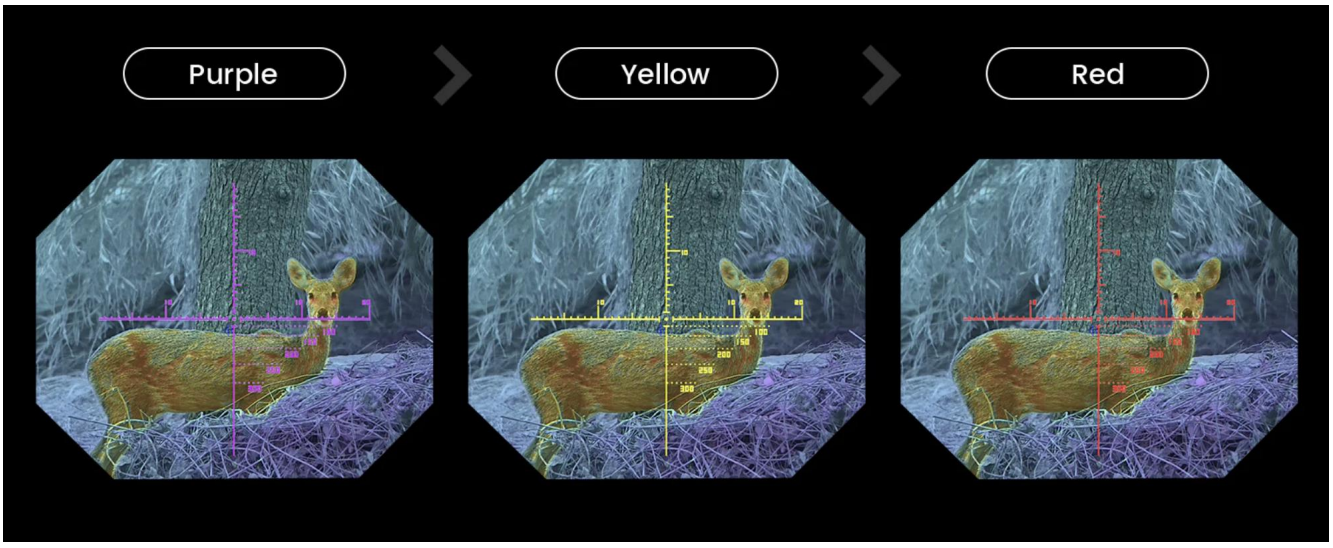
- **Simple to use**

3 Shortcut Buttons+ Knob, use physical shortcuts and attitude control for the most-used features.









3. Product Parameters

M1 Pro			
Dual-camera	Night Vision	Thermal	Fusion
Detector Resolution	1920×1200	640x512	1920x1200
Detector Size	1.7 inch	0.6 inch	/
Imaging Mode	Black&White	White Hot	Colorful Fusion/Colorful Negative Fusion

Lens Focus Length	35mm	13.5mm	/
Field of View	37° x 23°	31° x 23°	/
Focus Method	Manual Rotation		
Recognition Enhancement	RTO(Outline Heat Target)		
Frame Rate	25Hz		
Vuiewfinder	2.1inch, 1600×1200 LCD		
Glasses	0.7 inch, 1920x1200 OLED		
Field of View through eye piece	31° x 23°		
Field of View through Glasses	37° x 23°		
Magnification through eye piece	2X / 4X / 8 X		
Magnification through Glasses	1X / 2X / 4X		
Detect Hog Target	Up to 400 yards		
Recognize Hog Target	Up to 250 yards		
Ranging Range	Up to 800 yards		
Build-in Storage	128G(about 15h)		
Recording Resolution	1920*1200@25fps		
Electronic Compass	Indicates Direction and Angle of Pitch		
IR illuminator	Up to 100 yards, recommended for in cave or indoor at night, not outdoor open area		
USB-C	USB-C (Video&Photo Copy/Power Supply/Battery Charge/Firmware Upgrade/Live Video Output)		
Power Supply	21700 Batteries/USB-C Interface		
Battery Life	Up to 6 hours		
Battery Life with glassess	Up to 4 hours		
Operating Temperature	-20° F~+110° F		
Ingress Protection	IPX6		
Weight	18.7 ounces (With Batteries)		
Dimension	Exclude Eyepiece Cover: 143 x 74 x 70mm		

4. Product Illustration

M1 PRO

21700
SHINENYX

5. Product Usage

(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.

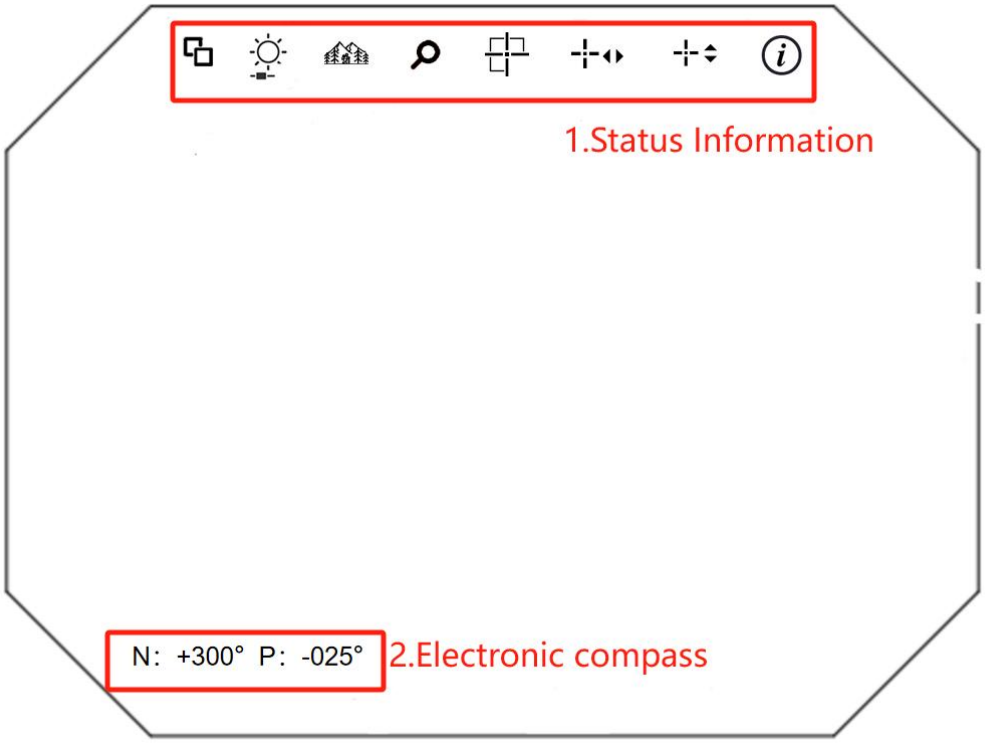
(4) In night vision and thermal imaging modes, rotate the corresponding objective lens until the object is absolutely clear and the focus is completed. For fusion mode, focus must be done in low light and thermal imaging modes first.

(5) Rotate the side knob (in menu-off mode) to adjust the digital magnification (2X, 4X, 8X).

(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 (2X . 4X and 8X)** • Rotate left side knob to switch (when menu-off) or press the button as usual • Default: 2X
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 a high-quality 21700 battery. 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
- 1 x 21700 rechargeable lithium battery
- 1 x portable soft bag
- 1 x Rifle Mount (Option)