

Mini Touch Thermal Scope User Manual



Precautions

Please strictly observe the following precautions at all times:

1) Do not use or store the instrument in environments where the temperature exceeds the product's specified operating or storage temperature range.

2) Do not point the product directly at sources of intense heat radiation, such as the sun, lasers, or arc welders.

3) Do not expose the product to dusty or humid environments.

4) Do not strike, throw, or subject the instrument and accessories to vibration, as this may cause damage.

5) Do not disassemble this unit yourself, as this may result in damage to the equipment and void the warranty.

When cleaning this device, please follow these guidelines:

1) Non-optical surfaces: If necessary, use a clean, soft cloth to wipe the

non-optical surfaces of the product.

2)Optical surfaces:Avoid soiling the optical surfaces of the lens while using the product.Do not touch the lens with your hands,as sweat from your hands may leave marks on the lens glass and potentially corrode the optical coating on the glass surface.If the optical lens surface becomes contaminated,carefully wipe it with professional lens paper.

I. Product Overview

1. Product Description

This product is a Mini Touch infrared thermal imager featuring a three-in-one design (Mini Search, Mini Sight, and Mini Helmet).

It can be mounted on the most popular handguns and helmets on the market and is equipped with a 256x192 infrared detector capable of reproducing the colors and details of infrared images in both daytime and nighttime conditions.

It also features a 45-millimeter-diameter OLED display with a wide field of view and supports both touch and button operation modes, enabling rapid response in various complex or harsh environments.

2. Product Features

- 1) High-sensitivity 256x192 infrared detector;
- 2) 1.4-inch touchscreen with large OLED display;

- 3) Features a high-performance AI chip and image detail enhancement technology;
- 4) Ergonomic design with dual operation modes: touchscreen and physical buttons;
- 5) Multiple image modes and reticles, switchable with a simple swipe;
- 6) High reliability with 1,000g shock resistance.

3. Product Appearance



1-Battery compartment 2-Lens 3-Buttons 4-Type-C port

II. Specifications

Item	Parameters
Weight	≤120g
Dimensions	52mm x 48mm x 51mm
Operating temperature	-20 °C - +50 °C
Detector Type	Uncooled Focal Plane Arrays
Resolution	256 x 192
Frame Rate	25Hz
Pixel Size	12μm
Wavelength Range	8μm to 14μm
Lens Focal Length	13mm, F0.9
Detection Range	≤700m
Field of View	13.5°×10.1°
Battery Type	16340 (Rechargeable)
Operating Time	≥4h (25 °C)
Display	1.4inch,466x466,OLED
Brightness Adjustment	Yes
Color Ribbon	Black Hot,White Hot,Red Hot,Fusion
Video Recording	On-board Video Recording
Photo Capture	Yes
Cursor Indicator	Yes
Internal Storage Capacity	Built-in EMMC
Shock and vibration	1000g/0.4ms

III. Basic Information

1. Button

There are three buttons on the right side of the product (as shown below). For button definitions and operation instructions, see the table below.





Serial No.	Name	Function
1	Power button	Long press: Power off, power on; Short press: Change the color of the aiming reticle(crosshairs)
2	Photo/ Video button	Tap briefly: Take a photo; Press and hold: Start/stop recording
3	Touchscreen	Press and hold the screen to open the menu





IV. Packaging Configuration

1. Standard components

S. No.	Name	Quantity
1	Device	1
2	Acro Mount	1
3	Countersunk Screw M3 x 6	3
4	Allen Wrench	1
5	Type-C Cable	1
6	Lens Cloth	1
7	User Manual	1
8	Warranty Card	1
9	Desiccant	1
10	Certificate of Conformity	1

2. Optional components

The table below shows some of the available rail mounts that can be installed on various firearms and accessories.

Name	Model	Reference image	Applicable Situations
Tilting bracket	IPSR-3		Compatible with MIL-STD-1913 rails; the mount can be tilted 90 degrees and supports quick-release
Picatinny rail	IPSR-4		Compatible with MIL-STD-1913 rails
Handheld mount	IPSR-5		Handheld mount with eyepiece and eyecup
Helmet mount	IPSR-6		Helmet mount