

Mini Thermal Imager EDTS213



Product User Manual

About This Manual

This manual provides guidance on the product's basic design, performance, operation, maintenance, and storage.

Until a revised manual is issued, use and maintain this product in accordance with this manual. Other materials are for reference only.

If you encounter any issue during use, please report it promptly so that we can investigate and improve the product.

Contents

I. Product Overview	5	5
1. Key Features	5	5
2. Product Appearance	6	6
II. Technical Specifications	7	7
III. Controls	8	8
IV. Package Contents	9	9
1. Standard Components	9	9
2. Optional Accessories	10	10
V. Before Use	14	14
1. Unpacking	15	14
2. Battery Installation	15	14
VI. Operation	16	16
1. Adjusting Reticle Size	17	17
2. Adjusting Reticle Color	18	17
3. Adjusting the Color Palette	18	18
4. Zeroing	19	18

5. Image Contrast 19	19
6. Brightness 20	20
7. Hot Spot Tracking 20	20
8. Burn-In Protection 21	21
9. About 21	21
10. Reset 22	22
11. Palette 22	22
12. Enhancement 23	23
13. Theme 24	24
14. Date and Time 24	24
15. Auto Power Off 25	25
16. Language 26	25
VII. Transportation 26	26
VIII. Storage 27	27

Precautions

Always observe the following precautions:

- 1) Do not operate or store the device outside its specified operating or storage temperature range.
- 2) Do not point the device directly at high-intensity thermal radiation sources, such as the sun, lasers, or welding equipment.
- 3) Do not expose the device to dusty or humid environments.
- 4) Do not disassemble the device. Doing so may damage it and void the warranty.

Observe the following when cleaning the device:

- 1) Non-optical surfaces: If necessary, wipe non-optical surfaces with a clean, soft cloth.
- 2) Optical surfaces: Keep the lens surfaces clean. Do not touch the lens with your hands; fingerprints and perspiration can leave marks and may corrode the optical coating. If the optical surface becomes contaminated, clean it carefully with professional lens paper.

I Product Overview

1. Key Features

- 1) Imaging performance: A high-performance 256 × 192 infrared thermal imaging module delivers smooth, clear thermal images.
- 2) Optical configuration: A 13 mm objective lens and 1.6-inch display provide a comfortable viewing experience.
- 3) Lightweight design: Its compact, ultra-lightweight construction adapts easily to a range of tactical equipment and portable applications.
- 4) Environmental adaptability: Operates reliably from -20 to +50 °C in demanding environments.

2. Product Appearance



- 1-1. Buttons 2. Battery Compartment 3.
Display

II Technical Specifications

Item	Specification
Objective Lens, mm	13mm F0.9
Field of View (H × V)	13.5°x10.1°
Display	1.6 in, 360 × 320
Detector Resolution	256 × 192
Image Palette	White Hot, Black Hot, Green Hot, Red Hot, Iron Red
Battery	16280
Operating Time	Two cells: ≥8 h
External Power Port	Type C, 5V
Operating Temperature	-20 to +50 °C
Shock Resistance	1000 g
Weight	99 g (excluding batteries)
Dimensions (mm)	53 × 42 × 43 mm

III Controls



No.	Control	Function
1	Power Button	Press and hold: Power on/off; Short press: Shutter calibration.
2	Photo/ Video Button	Short press: Take a photo; Press and hold: Start/stop recording.

3	Touchscreen	Press and hold: Open menu; Swipe up: Reticle size; Swipe down: Reticle color; Swipe left/right: Image palette; Double tap: Magnification.
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IV Package Contents

1. Standard Components

No.	Item	Qty.
1	Thermal Sight	1
2	RMR Mount	1
3	Countersunk Screws (M3 × 8, hex socket)	4

4	Hex Key	1
5	Flat-Top 16280 Lithium Battery	2
6	Type-C Data Cable	1
7	Charger	1
8	Lens Cloth	1
9	User Manual	1
10	Certificate of Conformity	1

2. Optional Accessories

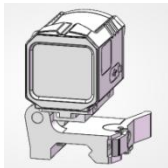
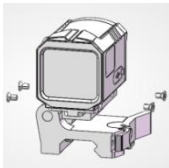
No.	Accessory	Illustration
Option 1	Flip-Over Picatinny Mount (90°)	

Option 2	45° Picatinny Mount	
Option 3	One-Piece Quick-Detach Picatinny Mount	
Option 4	RMSc Mount	

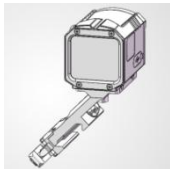
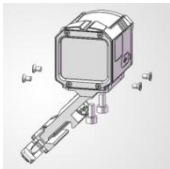
Accessory assembly diagrams are shown below.

Note: Screw torque is 15–20 ft-lb.

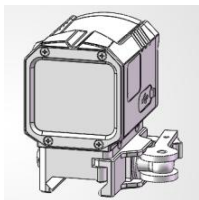
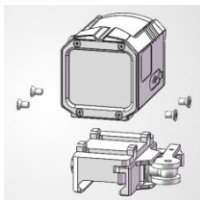
Option 1 - 90° Flip-Over Picatinny Mount



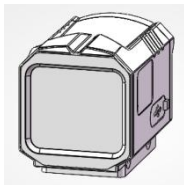
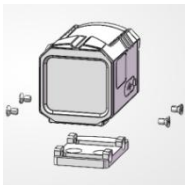
Option 2 - 45° Picatinny Mount



Option 3 - One-Piece Quick-Detach Picatinny Mount



Option 4 - RMSc Mount



V Before Use

1. Unpacking

- 1) Before first use, unpack the product and confirm that all items are included.
- 2) Check the lens, housing, display, controls, and other parts for visible damage.
- 3) Check the lens for dirt or stains. If necessary, clean the infrared lens with the supplied lens cloth.

2. Battery Installation

This product is powered by 16280 batteries.

Install them as follows:

- 1) Install the batteries strictly according to the polarity markings inside the battery

compartment. Do not reverse the polarity.

- 2) Turn the device off before installing or removing batteries. Opening the battery cover or removing batteries while the device is on may seriously damage it. Do not disassemble, drop, or short-circuit batteries.
- 3) Stop using a battery immediately if it overheats, changes color, deforms, emits an odor, or shows any other abnormal condition during use, charging, or storage.
- 4) The battery installation diagram is shown below:



VI Operation

With the device powered on and at the main screen, press and hold the touchscreen to open the menu.



No.	Description
1	Magnification
2	Recording
3	Auto Power-Off Time
4	Image Palette
5	Battery
6	Time

1. Adjusting Reticle Size

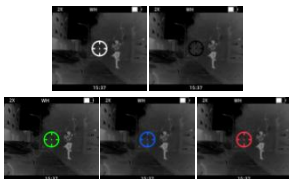
With the device powered on and at the main screen, swipe up to adjust the reticle size.



2. Adjusting Reticle Color

With the device powered on and at the main screen, swipe down to adjust the reticle color.

Available colors are white, black, green, blue, and red.



3. Adjusting the Color Palette

With the device powered on and at the main screen, swipe left or right to change the image palette. White Hot, Black Hot, Green Hot, Red Hot, and Iron Red are available.



4. Zeroing

With the device powered on, press and hold the touchscreen to enter the menu. Swipe to Zeroing and tap the icon. Use the Up, Down, Left, and Right controls to adjust the reticle position. Tap the upper-right icon to freeze the image; tap it again to unfreeze.



5. Image Contrast

In the menu, swipe to Image Contrast and tap the icon. On the adjustment screen, tap + or - to change the display contrast.



6. Brightness

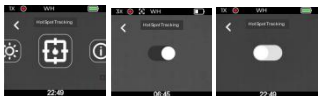
In the menu, swipe to Brightness and tap the icon.

Three brightness settings are available: image brightness, reticle brightness, and display brightness. Tap + or - or drag the slider to adjust.



7. Hot Spot Tracking

In the menu, swipe to Hot Spot Tracking and tap the icon to enable or disable the function.



8. Burn-In Protection

In the menu, swipe to Burn-In Protection and tap the icon to enable or disable the function.



9. About

In the menu, swipe to About and tap the icon to view device information.



10. Reset

In the menu, swipe to Reset and tap YES to restore factory settings.



11. Palette

In the menu, swipe to Palette and tap the icon to select an image palette: White Hot, Black Hot, Iron Red, Green Hot, or Red Hot.





Special Note:

For the current palette, tap the upper-right button to enable or disable that palette.

For example, if Iron Red is disabled in the menu, it cannot be selected from the main screen.



12. Enhancement

In the menu, swipe to Enhancement and tap the icon to improve image clarity. On the adjustment

screen, tap + or - to adjust.



13. Theme

In the menu, swipe to Theme and tap the icon to select the display theme.



14. Date and Time

In the menu, swipe to Date & Time and tap the icon to set the date and time.



15. Auto Power Off

In the menu, swipe to Auto Power Off and tap the icon to set the shutoff time.



16. Language

In the menu, swipe to Language and tap the icon to select English, Chinese, or Russian.



VII Transportation

Packaging quality and transportation safety requirements comply with applicable international transport regulations.

Observe the following when handling the product:

- 1) Use handling methods that ensure safe and reliable operation.
- 2) During transport, comply with fire-prevention, waterproofing, and moisture-protection requirements.

- 3) Do not transport the product with flammable, explosive, or corrosive materials, and protect it from impacts during transport.

VIII Storage

Store the product in a dry, ventilated environment free of corrosive gases, at 0 to +55 °C and relative humidity no greater than 80%.