

Thermal Camera ZX-IRA26-a-DF250-G

**User Manual** 

**V2.0** 

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#### **Notes**

- In order to ensure the instruments are in good technical condition, the daily maintenance of the operating personnel is only limited to the replacement and inspection of cables, cleaning and functional inspection.
- Please do not open the cabinet in any case even if the system runs into malfunction. Troubleshooting has to be taken on by professional technicians after thorough examinations.
- The thermal camera should be kept in a cool, dry environment for storage.
- Please make sure that the connector assemblies were inserted after aligned with sockets. Please do not pull the cable directly for unplugging.
- Wearing anti-static gloves when using and connecting the product to prevent it from being penetrated.
- The power input voltage of the video tracker should be 12V, otherwise the device would be damaged.

## **Parameters**

lmaging index	Working format	Un-cooled 8µm~14µm
	Resolution	640*480
	Size of pixel	17μm
	Emissivity correction	Emissivity0.01~1 adjustable
	NETD	≤50mK (@25°C)
	MRTD	≤550mK (under characteristic frequency)
	Image enhancement	Auto adjust brightness and contrast
	Color palette	Black hot/white hot/pseudo color
	Digital zoom	2X, 3X, 4X
	Temperature	Temperature bar with
	measurement  Measurement range	highest/lowest/center temperature spot 0°C~120°C
	Data refresh rate	25Hz-60Hz
	Output lag	<40ms
	Minimum target contrast	5%
Tracking index	Tracking velocity	± 32 pixels / frame
	Target effective memory	100 frame
	Target size	16×16~128×128 pixels
	Video interface	HDMI micro (input) /
Electrical	Communication	HDMI micro+Ethernet (output)
interface	interface	ΠL
	Power input	12V
Environmental adaptation	Working temperature	-40℃~60℃
	Storage temperature	-45℃~65℃
	Shock	Meet the GJB 150A vibration test conditions
Others	Lens	19mm/25mm/50mm
	Volume	78.3mm×42mm×42mm
	Weight	<155g
	Power consumption	≤4.6W (@25℃)

## Package List

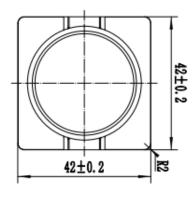


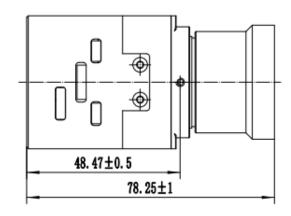
### **Troubleshoot**

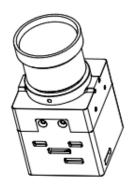
Please use the form below to check the IPM when it has any trouble. Disconnect the power and contact our technical team if problem remains.

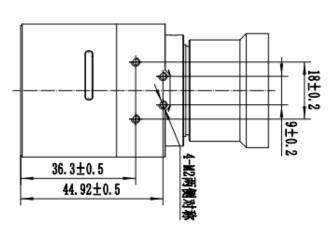
Malfunction	Reason and solution
	<ol> <li>Check whether the power is connected.</li> <li>Check whether the voltage is lower than required which should be 12V.</li> </ol>
No image display	<ol> <li>Check whether the serial port is open(not serial port 1)</li> <li>Check whether the baud rate setting of the operation software is correct.</li> <li>Check whether the video output format of the displayer is 1080P.</li> </ol>
The serial command does not respond	1. Check whether the serial port is open (not serial port 1 open) Check whether the verification mode is correct.
No tracking box	The target is too close or not obvious, reselect target.

### **Dimensions**









# **Pin Definition**



Ethernet interface

5PIN interface			
Pin #	Pin title	Function	
1	GND	Ground	
2	TXD	Serial port send	
3	RXD	Serial port receive	
4	GND	Ground	
5	POWER IN	12V power in	

Ethernet pin definition				
Pin #	Pin title	Function		
Blue	DATA_1_N	Ethernet data 1_N		
Red	DATA_1_P	Ethernet data 1_P		
Green	DATA_0_N	Ethernet data 0_N		
Yellow	DATA_0_P	Ethernet data 0_P		