

## MYK- A/IR-384

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The thermal imaging movement is a miniaturized integrated product characterized by small size and low power consumption, which can be integrated into various types of equipment, such as robot gimbals, individual helmets, pods, etc.

#### 【Functional characteristics】

- High sensitivity vanadium oxide non cooled detector, supporting 384× 288 resolution
- Support analog signal output
- Support automatic, manual calibration, and background correction
- Compact design for easy integration

#### 【Application scenarios】

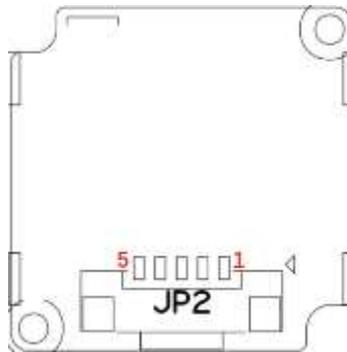
- Integration of drone pods, intelligent equipment, etc

## ▪ Technical indicators

Sensor type	Vanadium oxide (VOx) microcalorimeter
Resolution	384 × 288
Pixel Pitch	12μm
Response band	8~14 μm
NETD	≤40 mK(@25 °C,F#1.0)
Lens Parameters	9.7 mm
FOV (H*V)	26.46° (H) × 19.81° (V), 33.19° (D)
Minimum focusing distance	2m
Max Aperture Value	F1.0
<b>Image display</b>	
Output resolution	720 × 576
Electronic amplification	×1, ×2, ×4, ×8
Electronic amplification	support
Bad point correction	support
image	Off, Vertical, Horizontal, Center
Image detail enhancement	<b>support</b>
AGC mode	histogram
Brightness adjustment	support
Pseudo color mode	Supports 15 modes including White Heat, Black Heat, Fusion 1, Rainbow, Fusion 2, Iron Red 1, Iron Red 2, etc
Contrast adjustment	<b>support</b>
<b>system function</b>	
interface	CVBS
<b>system parameter</b>	
Storage temperature	-45 °C ~ + 75 °C
Storage humidity	<90% RH
Vibration shock	Vibration: sinusoidal vibration, 10m/s <sup>2</sup> , 3-axis Shock: Half sine wave, 15g/11ms, 3-axis 6-way
working temperature	-40 °C~80 °C
weight	≤23 g
size	37.82mm×20mm×20mm
power	≤0.8 W
Power input	DC 5 V-17 V

# Interface Definition

Interface board diagram:



Pin Definition:

1	POWER	DC 5~16V Power supply
2	GND	GND
3	CVBS	CVBS
4	UART_TXD	Module UART sending 3.3V
5	UART_RXD	Module UART reception 3.3V

: **structure size**

≤39mm×20mm×20mm

