

## **TN430**

# **Fixed-mount Thermal Camera**

TN430 is a high-performance and high-accuracy thermal camera with an uncooled infrared FPA detector. It can provide clear infrared images and accurate temperature measurement. TN460 supports multiple communication protocols such as Modbus TCP ,Onvif and GB28181. Featuring compact dimension and low power consumption,is easy for system integrations in machine vision, electric power, new energy, industrial automation, and other scenarios.







## **Product Highlights**



384×288 infrared resolution

Clear images



A frame rate of 50Hz

Synchronous transmission of temperature data and image data



-20°C to +650°C Wide measurement range

Suitable for application in multiple scenarios



Compact size and multiple lenses option

Convenient for integrated design



Multiple protocols and interfaces

Easy for back-end integration

#### **Lens Parameters**

Model	TN430			
Focal Length	4.1mm	9.1mm	13mm	25mm
FOV	62.1°×47.2°	29.1°×21.7°	19.7°×14.9°	10.4°×7.8°
Spatial Resolution (IFOV)	2.93mrad	1.32mrad	0.92mrad	0.48mrad

## Specifications

Detector Uncooled VOx detector Infrared Resolution 384×288  Pixel Pixch 12µm  Spectral Band 7.5µm-14µm  Thermal Sensitivity (NETD) ≪40mK  Temperature Measurement  Measurement Range 20°C~+150°C, 0-650°C Measurement Accuracy 52°C or ±2% of readings Temperature Measurement Correction Settings of measurement rules for a total of 12 points, 12 lines, and 12 areas, support isotherm setting Temperature Width Stretch Support temperature width stretch  Image and Vicieo Frame Rate 50Hz Palettes 20 color palettes including black-hot, white-hot, iron red, rainbow, etc. Video Standards H.264, H.265 Thermal Image Capture Support thermal image capture and secondary analysis Mirroring Horizontal/Vertical/Diagonal Digital Zoom 1.0~8.0 continuous zoom (step size: 0.1)  System Interface Communication Interface RJ45, supporting Gigabit network; 1-channel RS485, supporting Pelco-D protocol expansion (optional) Audio Interface 1-channel andio input, 1-channel audio output Video Interface Support F card Network Protocol IPv4, HTTP, HTTPS, SMTP, FTP, UPnP, DNS, DNNS, NTP, RTCP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP Interface Protocol Povers Supply Mode 9V-15V DC, optional PDE power supply  Device Specifications Operating Temperature 40°C~+70°C Power Supply Mode 9V-15V DC, optional PDE power supply					
Infrared Resolution 384×288  Pixel Pitch 12μm  Spectral Band 7.5μm-14μm  Thermal Sensitivity (NETD)	, ,				
Pixel Pitch         12μm           Spectral Band         7.5μm-14μm           Thermal Sensitivity (NETD)         ≪40mK           Temperature Measurement Range           Measurement Range         -20°C ← 150°C, 0-650°C           Measurement Accuracy         ±2°C or ±2% of readings           Emperature Measurement Correction         Reflected temperature, ambient temperature, atmospheric transmissivity, object emissivity, distance           Measurement Tool         Settings of measurement rules for a total of 12 points, 12 lines, and 12 areas, support isotherm setting           Temperature Width Stretch         Support temperature width stretch           Image and Video         Support temperature width stretch           Frame Rate         50Hz           Palettes         20 color palettes including black-hot, white-hot, iron red, rainbow, etc.           Video Standards         H.264, H.265           Thermal Image Capture         Support thermal image capture and secondary analysis           Mirroring         Horizontal/Vertical/Diagonal           Digital Zoom         1.0-8.0 continuous zoom (step size: 0.1)           System Interface           Communication Interface         R.J45, supporting Gigabit network; 1-channel RS485, supporting Pelco-D protocol expansion (optional)           Audio Interface         1-channel alam input, 1-channel alam output					
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	Operating Temperature	-40°C∼+70°C			
T 1 15 0 0 0	Power Supply Mode	9V-15V DC, optional POE power supply			
Typical Power Consumption 2.4W	Typical Power Consumption	2.4W			
Dimensions 45mm×44mm×60mm (without lens)	Dimensions	45mm×44mm×60mm (without lens)			
Weight About 110g (without lens)	Weight	About 110g (without lens)			

### **Applications**









Machine Vision Industrial Automation

Electric Routine Inspection

Rail Transportation

### RayThink Technology Co., Ltd.

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