

CK350-VN/CK640-VN

Thermal imaging dual-spectrum cameras



The thermal imaging dual-spectrum CK350-VN and CK640-VN camera is mainly developed based on the principle of infrared heat radiation. It is a non-contact, real-time, continuous and accurate temperature measurement device.

It has the characteristics of small size, low power consumption, and easy integration. The change of the target state, combined with the software system of the device, can visualize the temperature information of the temperature measurement object, and realize multiple functions such as equipment maintenance, fault detection, industrial process control, and quarantine.

It can be widely used in electric power temperature measurement and industrial automation, inspection and quarantine and other fields.



Key Features

- **Precise Temperature Measurement:** Point, line, and area.
- **High-Sensitivity Detector:** With contrast control.
- **Auto Hot-Spot Tracking:** Locates and tracks the hottest point.
- **Accurate Measurement:** $\pm 2^{\circ}\text{C}$ or 2% accuracy.
- **Manual Control:** Adjust timing and temperature.
- **Enhanced Imaging:** Features 3D noise reduction and false colour.
- **Flexible Display:** Digital zoom and mirror image.
- **Network Compatibility:** Supports RTSP, ONVIF, and other protocols.
- **Lossless Compression:** Efficient real-time data streaming.
- **Compact Design:** Lightweight, low power, and easy to integrate.

CK350-VN Specifications

Model		CK350-VN			
Infrared performance	Detector type	Uncooled FPA			
	IR Resolution	384×288			
	Focal Length	6.5mm	13mm	18mm	25mm
	Field of View	45.4°×34.8°	23.6°×17.8°	12°×9°	7°×5.25°
	Spectral Range	7.5-14μm			
	Thermal Sensitivity/NETD	< 40 mk(@30°C)			
	Spatial resolution (IFOV)	2.61	1.31	0.67	0.43
	Maximum Aperture	1.0			
	Focus	Manual/electric/automatic			
	Color Palettes	10 Color Palettes			
	Temperature measurement accuracy	±2°C or 2% of readings			
	Object temperature range	-20 °C~150 °C (low temperature range) , 0 °C~410°C (medium temperature range)			
	Optional temperature range	+300 °C~+650 °C\+300 °C~+2000 °C\other ranges (high temperature range)			
	Autofocus	Automatic focusing function of lens preset position			
Visible light performance	Sensor type	1/2.8" CMOS			
	Resolution	1920 × 1080			
	Focal Length	4.8~120 mm,25x optical zoom			
	Minimum illumination	colour≤0.05lx, black and white≤0.01lx			
	Focus	Manual/semi-automatic			
	Light filling function	infrared light filling, effective distance of 30m			
PTZ performance	Horizontal range	0°~360°			

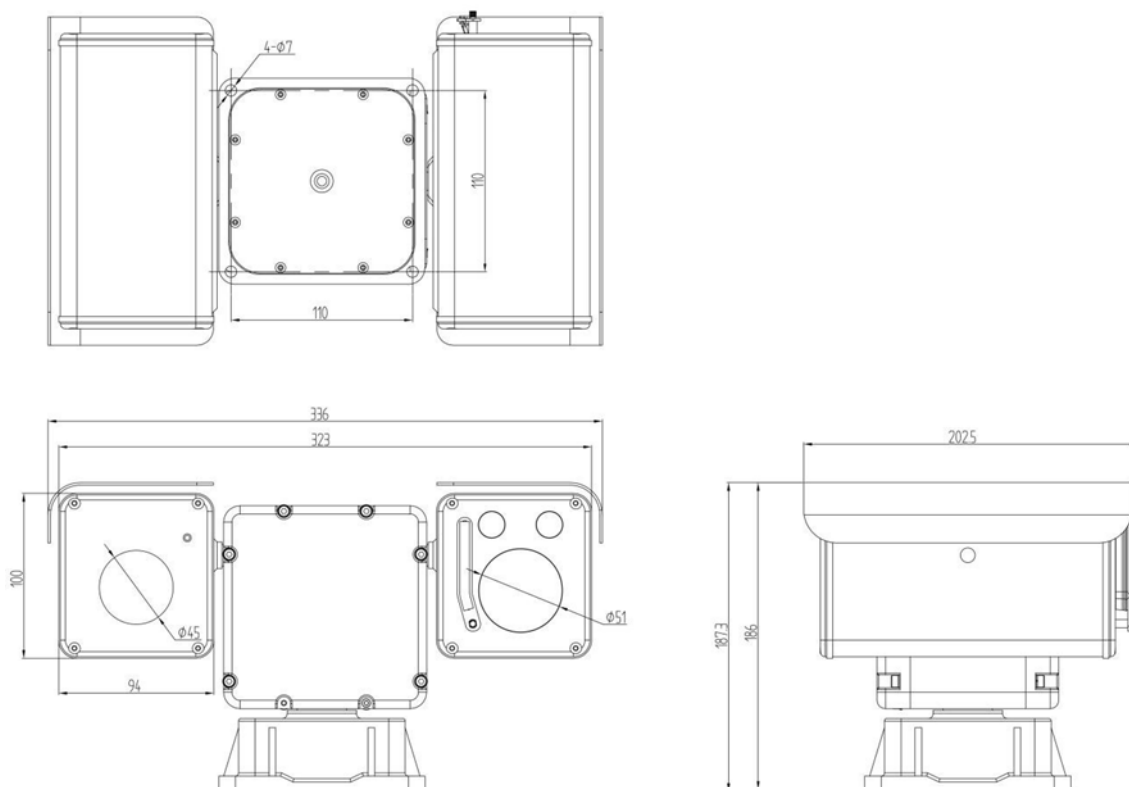
	Horizontal speed	0.01°~30°/s
	Vertical range	-90°~+90°
	Vertical speed	0.01°~15°/s
	Preset position	200
	Cruise scan	8, each can add 10 preset points
	Scan mode	Cruise scan/automatic scan/panoramic scan/vertical scan
Interface	Network interface	One 10M/100M adaptive Ethernet port
	RS485	support
	Network protocol	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP, RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP
	API	Support SDK access
System parameter	Continuous analysis of temperature flow data	Automatic acquisition of time temperature trend curve of maximum temperature, average temperature and minimum temperature
	Keyframe retrieval	Quickly fetch key frames for any part of the trend curve
	Voltage supply	DC 24 V±20%
	Power	≤35W
	Operating temperature and humidity	-25°C~60°C, < 90% RH
	Protection level	IP66
	Weight	< 5kg

CK640-VN Specifications

Model		CK640-VN			
Infrared performance	Detector type	Uncooled FPA			
	IR Resolution	640x512			
	Focal Length	6.5mm	13mm	25mm	50mm
	Field of View	61.1°x47.8°	32.9°x25.0°	24.1°x18.1°	12°x9°
	Spectral Range	7.5-14μm			
	Thermal Sensitivity/NETD	<40mk(@30°C)			
	Spatial resolution (IFOV)	1.85	0.92	0.67	0.33
	Maximum Aperture	1.0			
	Focus	Manual/electric/automatic			
	Color Palettes	10 Color Palettes			
	Temperature measurement accuracy	±2°C or 2% of readings			
	Object temperature range	-20 °C~150 °C (low temperature range) , 0 °C~410°C (medium temperature range)			
	Optional temperature range	+300 °C~+650 °C\+300 °C~+2000 °C\other ranges (high temperature range)			
	Autofocus	Automatic focusing function of lens preset position			
Visible light performance	Sensor type	1/2.8" CMOS			
	Resolution	1920 × 1080			
	Focal Length	4.8~120 mm,25x optical zoom			
	Minimum illumination	colour≤0.05lx, black and white≤0.01lx			
	Focus	Manual/semi-automatic			
	Light filling function	infrared light filling, effective distance of 30m			
PTZ performance	Horizontal range	0°~360°			
	Horizontal speed	0.01°~30°/s			
	Vertical range	-90°~ + 90°			

	Vertical speed	0.01°~15°/s
	Preset position	200
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Product Size:



Unit: mm