

Overview

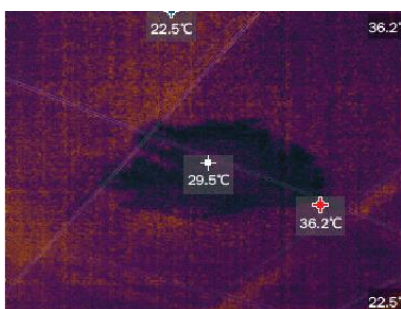
The uncooled camera core is equipped with 640x512 resolution infrared detector, high-performance signal processing circuits and professional image processing algorithms, offering high image quality with sharp edges, sense of depth, fast frame rate and high temperature measurement. This core has the advantages of small size, low power consumption, cost-effective, customisable. It is suitable for the development and integration of infrared thermal imaging equipment or systems in various fields, as well as all kinds of imaging whole machine and optoelectronic system. It can be applied to industrial process/quality control system, security monitoring, vehicle night vision, IoT, drones, industry 4.0 etc.



Features

- High sensitivity, clear and stable imaging
- High frame rate, smooth video stream
- Highly integrated and convenient for secondary development
- Smaller, lighter and lower power consumption

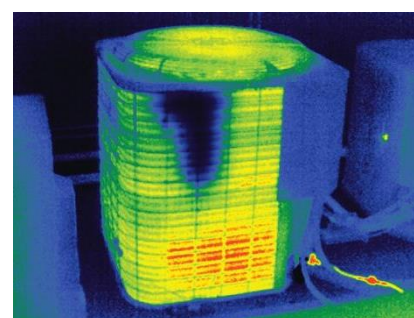
Application



Leak Detection



Electricity Detection

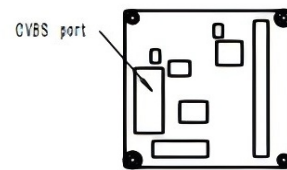
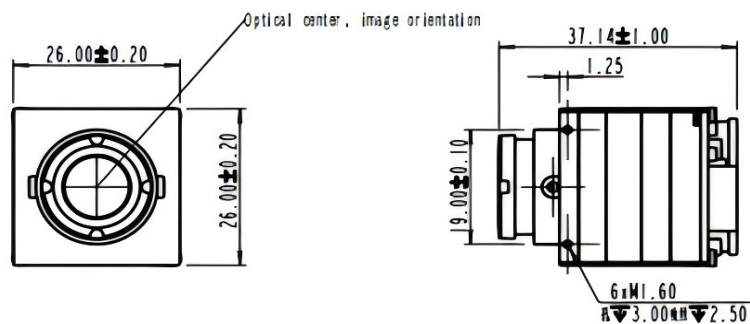


Underfloor Heating

Specification

IR Detector	Resolution	640x512
	Spectral range	8~14μm
	Detector type	VOx
	Pixth pitch	12μm
	NETD	≤40mK
	Lens	9.1mm
	Frame rate	≤50Hz
Image adjustment	Bright or Contrast adjustment	Auto or manual
	Polarity	White Hot or Black Hot
	Color palettes	Iron, Iron invert, Rainbow, Feather
	E-zoom	X1、X2、X4
	Image processing	NUC, digital filter noise reduction, digital details enhanced
	Image mirror	Left and right , Up and down
Power	Power	Overcurrent protection, overvoltage protection, reverse input protection
	Power input	DC 5~12V
	Power consumption	≤ 1 W
Common	Video output	CVBS
	Communication port	RS232
	Operating Temperature	-20℃~+60℃
	Storage Temperature	-45℃~+85℃
	Humidity	5 ~ 95%, non-condensing
	Vibration	6.06g, all axial for random vibration
	Shock	40g, 4ms, rear peak sawtooth wave at 3 axes of 6 directions
	Dimension	26×26×21.1mm (without lens and connectors)
	Weight	≤23g (without lens and connectors)

Dimension



Port Definition

1	DC 12V
2	PGND
3	CVBS OUT
4	GND
5	RS232_TX
6	RS232_RX



The CVBS user interface board adopts 6P 1.25mm connector, the seat model is HCZZ0494-6:

