



Cooled Thermal Imaging Camera



Application

We provide cooled thermal imaging modules to research institutes and enterprises for the thermal camera development and system integration.

Features

- ★ Uncooled VOx FPA Microbolometer, high sensitivity.
- ★ Large area array, small pixel array, super-high IFOV.
- ★ New FPGA intelligent image processing platform, clear image.
- ★ Multiple control and image output interfaces, easy to integrate.
- ★ Compact structure, small volume and light weight.
- ★ Wide power supply range, low power dissipation and short start time.



Technical Specification

Detector	cooled VOx FPA
Pixel	320x256
Pitch	17 μ m
Spectral band	8 μ m~12 μ m
Frame frequency	25Hz
Analog Video	P/N
Digital video	16Bit TTL/LVDS/Cameralink
Power dissipation	$\leq 1.8W@25^{\circ}C$
Input voltage	DC7V~12V
Starting time	<20s
Operating temperature	-40 $^{\circ}C$ ~ +60 $^{\circ}C$
Storage temperature	-50 $^{\circ}C$ ~ +70 $^{\circ}C$
NETD	Camera $\leq 60mK(F/1)$
	Detector $\leq 50mK(F/1)$
Motor driving	2-way DC 7V~12V
Dimension	460mmx230mmx325mm
Weight	20kg (exclude the base part)
Communication Interface	RS232/RS422 Open protocol
Detection distance	8km (target: human 1.7mx0.5m)



Function

- ◆ Manual background/shutter calibration
- ◆ White/black heat polarity switch
- ◆ 2x electronic zoom
- ◆ Manual/Auto image gain/brightness adjustment
- ◆ Cross cursor display/hide and position adjustment
- ◆ Image enhancement, smoothness and sharpen.
- ◆ Electric focusing and field of view switch
- ◆ Sampling voltage auto-focusing signal
- ◆ System parameters self-check/reset