

IR-SF641

Mini-Infrared Module



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Suitable for drone, industrial temperature measurement, security monitoring, outdoor targeting and other applications with high requirements for volume and power consumption.

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Items IR-SF641 | IR-SF641R

Detector

Detector Type	Uncooled VOx
Resolution	640×512
Pixel pitch	12µm
NETD	≤30mK
Frame rate	50Hz
Spectral range	8~14µm

Lens

Athermalized fixed focal lens	9mm、13mm、25mm、 35mm、50mm、75mm	9mm、13mm、25mm
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Thermal imaging operations

Brightness/Gain Adjustment	Manual Brightness/Gain; Auto Brightness/Manual Gain; Auto Brightness/Gain
Image enhancement	Digital Detail Enhancement DDE
Polarity switch	Support
Digital zoom	1.0~8.0X
Calibration	Manual calibration, automatic calibration at power on.
Noise reduction	Yes

Interface

Interface content	Power Supply, Analog Video, 16bit Digital Video, Reserved User IO
Analog Video Output	1 channel PAL or 1 channel NTSC
Control	UART(TTL 3.3V)

Power system

External power supply	DC5V
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Environmental

Working Temp.	-40°C~+70°C	-20°C~+60°C
Image enhancement	-45°C~+75°C	

Physical

Weight	22g (without lens)
Dimension	26×26mm (without lens)

* Ex IC nC op : explosion-proof certification whose version is IIC T4 Gc
NETD is equivalent to the values: ≤0.015°C@30°C
(VOC) volatile organic compounds

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