Specifications

Infrared Camera Core Module Specifications

Performance Indicator	MYK – A/IR-1280	
System Parameters		
Detector Type	Uncooled infrared focal plane detector	
Thermal Sensitive Material	Vanadium Oxide (VOx)	
Spectral Response Band	8-14μm	
Pixel Pitch	12μm	
Resolution	1280x1024	
Frame Rate	30Hz	
Image Algorithm		
Dead Pixel Calibration and Correction	Auto/Manual Calibration and Correction	
TECLESS Calibration and Correction	Supported	
Shutter-based NUC	Supported	
Horizontal/Vertical Stripe Removal	Supported	
Image Denoising	Supported	
Histogram Processing	Supported	
Gamma Correction	Supported	
Brightness Adjustment	Supported	
Contrast Adjustment	Supported	

Image Algorithm (Cont.)	
Bad Column/Segment Calibration and Correction	Supported
Image Profile	Supports three modes: "Sharp", "Natural", "Smooth"
Image Polarity	Polarity (Black Hot / White Hot)
Power Supply	
Power Protection	Overcurrent protection, reverse input protection, high voltage surge suppression
Input Voltage	2.8~3V
Core Power Consumption	≤2w (excluding extension board and shutter)
Interface	
Digital Video	DVP、MIPI
Communication Interface	UART
Physical Characteristics	
Dimensions	≤33x33mm (main body width x height)
Weight	≤100g (excluding lens)
Lens Options	
Optical Lens	Please contact technical support for details
Field of View (FOV)	Please contact technical support for details
Environmental Suitability	
Operating Temperature	-20℃~+60℃
Storage Temperature	-40℃~+70℃

The extension board interface definitions are shown in the table below.

Table 2. Extension Board Interface Definition

Extension Board version	Power Interface	Serial Communication	Video Output
DVP Version	2.8~3v Input	UART、I2C	DVP
MIPI Version	2.8~3V Input	UART、I2C	MIPI