

M3-C Series

Multifunctional Thermal Imaging Core Module

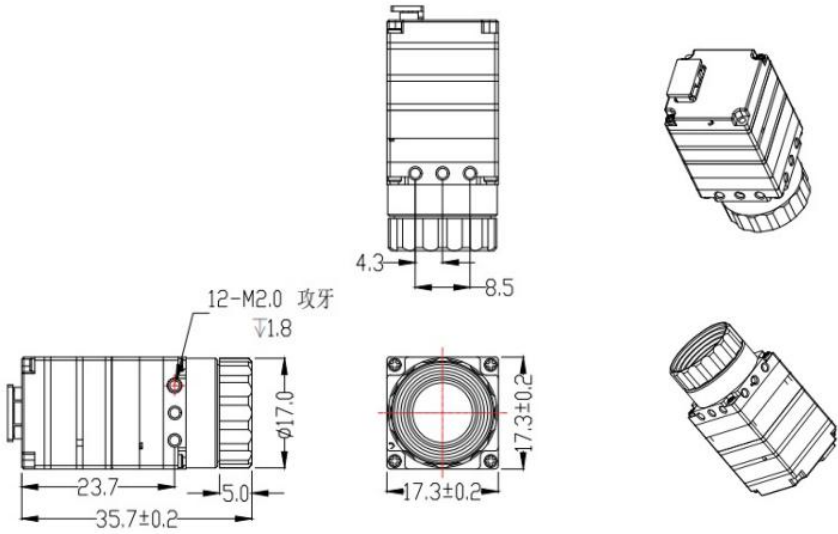
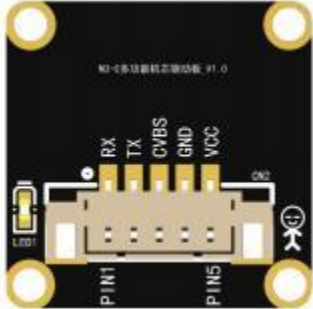
Specification V1.0



Product: M3-C Series

Technical Features

Model	M3-C	
Sensor Type	Uncooled Focal Plane Array detector (VOx - Vanadium Oxide)	
Spectral Response	8~14um	
Pixel Pitch	12um	
Array Format	384*288 (Effective Pixel Array)	
NETD	≤35mK(f/1.0 50Hz 300K)	
Frame Rate	60Hz	
Image Interface	CVBS(PAL Format)	
Control Interface	UART	
Key Function	Digital zoom, Pseudo-color switching	
Pseudo Color Mode	White Hot (default), Black Hot, Red Hot, Iron Red, Fusion, Green Hot	
Scene Mode	User, Plain, Forest	
Brightness	Adjustable	
Contrast	Adjustable	
Digital zoom	Continuous Digital Zoom from 1× to 8× (0.5× step)	
Shutter Mode	With shutter, Automatic shutter activation	
Lid Calibration	Lid Calibration via UAR Serial Port Using Host Computer	
Non-Uniformity Correction (NUC)	Calibration via UAR Serial Port Using Host Computer	
Power Input	4.5v~18v	
Operating Temperature	-30°c~+60°c	
Power Consumption	≤0.8W	
Shock	1000g	
Lens Specifications	4mm	9.1mm

Field of View (FOV)	Horizontal	Vertical	Diagonal	Horizontal	Vertical	Diagonal
	54.2°	42°	65.3°	28.4°	21.5°	35.1°
Secondary Development	/					
Dimension	17.3mm*17.3mm*35.7mm					
Weight	16g					
Dimensions (vary by version)	 Technical drawings of the device showing dimensions: - Top view: 17.3±0.2mm x 17.3±0.2mm - Side view: 35.7±0.2mm (total height), 17.0mm (main body height), 5.0mm (base height), 23.7mm (main body width), 12-M2.0 攻牙 (thread specification), 1.8mm (thread depth), 4.3mm (pin pitch), 8.5mm (pin length) - Perspective views showing the device from different angles.					
Interface Definition	 Pin header diagram showing labels: RX, TX, CVBS, GND, VCC, PIN1, PIN5, LDD1, GND2.			5pin/1.25 Terminal		
				1: RX		
				2: TX		
				3: CVBS		
				4: GND		
				5: 4.5-18V		