



Micro 2-384/640  
 Economical, lightweight and compact thermal imaging camera module.  
 Integration in thermal scopes, miniature UAVs, field wearable vision equipment

Model	Micro 2-384	Micro 2-384P	Micro 2-640	Micro 2-640P
Detector Type	Uncooled VOx IR detector			
Resolution	384x288		640x512	
Pixel Size	17µm	12µm	14µm	12µm
Detector Frame Rate	50Hz /30Hz			
Spectral Band	8~14µm			
NETD with F#1.0 lens	≤50mK @ 25°C; ≤40mK optional			
TEC	None (uncooled)			
Brightness/Contrast Adjustment	Manual - Auto 0 - Auto 1			
Polarity	Black-hot / White-hot			
Multiple color palettes	Supported			
Reticle	Display - Blank - Move			
Image Processing	Non-uniformity correction (NUC)			
	Digital filtering noise reduction			
	Digital detail enhancement (DDE)			
Mirroring	Horizontal - Vertical - Diagonal			
Power Supply Range	4-6VDC			
	5-24VDC supported			
Typical Supply	4VDC			
Power Protection	Overvoltage, undervoltage, and reverse connection protection supported by user extension component			
Typical	<1.0W		<1.3W	
Power Consumption@25°C	<1.2W		<1.6W	
Video Output	1-channel PAL or NTSC system BT.656 14Bit or 10Bit LVCMOS LVDS			
Serial Communication Interface	RS-232 UART(3.3V) RS-422			
Button	4 buttons			
Weight (without lens)	31gram (±3g)			
Dimensions (without lens)	Ø36 x 19mm			
Operating Temperature	-40°C~+80°C			
Storage Temperature	-45°C~+85°C			
Humidity	5 - 95%, non-condensing			
Vibration	6.06G, random vibration, all axes			
Impact	80G, 4m/s, final peak sawtooth wave, three axes and six directions			



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