

Micro LG uncooled thermal module
Robust, compact, versatile, light weight and
powerful module



Model	Micro LG-1280		Micro LG-1024		Micro LG-640		Micro LG-640 Pro	
Detector Type	Uncooled VOx IR detector							
Resolution	1.280 x 1.024 pixels		1,024 x 768		640x512		640x512	
Pixel Size	12µm							
Detector Frame Rate			50 / 25Hz (PAL) 30 / 60Hz (NTSC)				50 / 25Hz	
Spectral Band			8 - 14µm					
NETD with F#1.0 lens			≤50mK @ 25°C; ≤40mK optional				<20mK @ 25°C	
Cooling (TEC)			Uncooled - Shutterless					
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)					
Polarity			White Hot / Black Hot					
Power Protection			Overvoltage, undervoltage, and reverse connection protection supported by user extension component					
Typical Supply								
Power Protection								
Typical								
Power Consumption@25°C	1,8W		1,6W		1,2W		1,2W	
Video Output			LVCMOS - LVDS - BT.1120 digital video output		BT.656		BT.656	
Serial Communication Interface			UART(3.3V) / R@-232					
Optics:			Athermalized					
Horizontal FoV - Focal Length	88° / 10mm		70.4° / 10mm		89° / 4.1mm F1.2		89° / 4.1mm F1.2	
	46.3° / 19mm		37.1° / 19mm		70° / 5.8mm F1.2		70° / 5.8mm F1.2	
	35.2° / 25mm		28.2° / 25mm		48° / 9.1mm F1.2		48° / 9.1mm F1.2	
	25.5° / 35mm		20.1° / 35mm		33° / 13mm		33° / 13mm	
	16° / 55mm		12.8° / 55mm		22° / 19mm		22° / 19mm	
	11.7° / 75mm		9.4° / 75mm		17° / 25mm		17° / 25mm	
					12.5° / 35mm		12.5° / 35mm	
					8° / 55mm		8° / 55mm	
					5.9° / 75mm		5.9° / 75mm	
					4.4° / 100mm		4.4° / 100mm	
Continuous Zoom			1.0X - 4.0X continuous zoom					
Horizontal FoV - Focal length	11.7° - 35.2° / 25mm - 75mm		9.4° - 28.2° / 25mm - 75mm		5.9° - 17.6° / 25mm - 75mm		5.9° - 17.6° / 25mm - 75mm	
	5.9° - 29.3° / 30mm - 150mm		4.7° - 23.5° / 30mm - 150mm		4.4° - 22° / 20mm - 100mm		4.4° - 22° / 20mm - 100mm	
					4.4° - 22° / 20mm - 100mm		4.4° - 22° / 20mm - 100mm	
					2.9° - 14.7° / 30mm - 150mm		2.9° - 14.7° / 30mm - 150mm	
Input Voltage			3.9V DC - 5VDC, typical supply voltage 4V					
			5V DC - 18V DC, with user extension component, typical supply voltage 12V					
Weight (without lens)	90 grams		90 grams		35 grams		35 grams	
Dimensions (without lens)			45 x 45 x 33,5mm		29,5 x 29,5 x 28mm		29,5 x 29,5 x 28mm	
Operating Temperature			-40°C - +70°C					
Storage Temperature			50°C - +85°C					
Humidity			5 - 95%, non-condensing					
Vibration			6.06G, random vibration, all axes		10.2g, random vibration, all axes		10.2g, random vibration, all axes	
Impact			80G, 6ms, final peak sawtooth wave, three axes and six directions					



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