Vision Datum

LEO Series Area Scan Cameras

USB3 VISION | GiGE VISION | 10GiGE VISION | CoaXPress

LEO 25MG

- 25MP resolution ,Pixel Size 2.5 μm
- GMAX0505 Global shutter CMOS, high dynamic range, good signal-to-noise ratio, excellent image quality
- Supports automatic or manual adjustment of exposure time, white balance
- Supports manual adjustment of gain, Gamma correction, LUT, etc.
- Multiple interfaces available

Applied range • Defect Detection • Surface Patch Detection • Visual Positioning • Size Measuring • QR Code Reading • VR/AR • Logistics

Camera	LEO 25MG-14um/uc/uNIR	LEO 25MG-5gm/gc/gNIR	LEO 25MG-41Tgm-C
Resolution [H*V]	5120 × 5120		
Sensor	Gpixel GMAX0505		
Sensor Size	1.1"		
Sensor Tecchnology	CMOS, Global		
Pixel Size [μm]	2.5 × 2.5		
Frame Rate [fps]	14	4.5	41.5
Exposure Time	12μs~10s		13μs~10s
Dynamic Range	63dB		
Mono/Color	Mono/Color/NIR		Mono
Image Format	Mono/NIR:Mono8/10/10P/12/12P Color:Mono 8/10/12, Bayer BG 8/10/10P/12/12P, YUV422P,YUV422_YUYV_P,RGB 8,BGR 8	Mono/NIR:Mono8/10/10P/12/12P Color:Mono 8/10/12, Bayer RG 8/10/10P/12/12P, YUV422P,YUV422_YUYV_P,RGB 8,BGR 8	Mono8/10/10P/12/12P
Interface	USB 3.0	GigE	10 GigE
Synchronization	Via hardware trigger、software trigger or free run mode		
Housing Size	29 × 44 × 59 mm (100g)(A)	29 × 44 × 59 mm (100g)(B)	50 x 45 × 68.6 mm(212g)(C)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)		
Lenses Mount	C-Mount, BFL 17.526 mm		
Digital I/O	Opto-isolated input x 1, opto-isolated output x 1,and bi-directional custom non-isolated I/O x 1		
Power Input	DC 12-24V, Supporting USB	DC 9-24V, Supporting PoE	DC 9-24V
Power Consumption	5V @3.6W	Mono/NIR:12V @3.1W Color:12V @3.2W	12V @10.5W
Driver	iDatum or 3rd party USB3 Vision Software	iDatum or 3rd party GigE Vision Software	
Operating System	Windows,Linux		
Conformity	USB3 Vision, GenICam	GigE Vision, GenICam	GigE Vision, GenICam

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Camera	LEO 25MG-40Tgm/Tgc/TgNIR	LEO 25MG-150xm/xc	LEO 25MG-41xm/xc-C	
Resolution [H*V]	5120 × 5120			
Sensor	Gpixel GMAX0505			
Sensor Size	1.1"			
Sensor Tecchnology	CMOS, Global			
Pixel Size [μm]	2.5 × 2.5			
Frame Rate [fps]	41.5	150	41.5	
Exposure Time	9μs~10s UltraShort exposure mode：3μs~8μs	10μs~10s UltraShort exposure mode：3μs~8μs	13μs~10s	10μs~10s UltraShort exposure mode：3μs~8μs
Dynamic Range	63dB		65dB	
Mono/Color	Mono/Color/NIR	Mono/Color	Mono	Color
Image Format	Mono/NIR:Mono8/10/10P/12/12P Color:Mono 8/10/12,Bayer BG 8/10/10P/12/12P, YUV422P,YUV422_YUYV_P,RGB 8,BGR 8	Mono:Mono 8/10/12 Color:Bayer BG 8/10/12		
Interface	10 GigE	CoaXPress（Micro-BNC） CXP12	CoaXPress（Din） CXP6	
Synchronization	Via hardware trigger、software trigger or free run mode			
Housing Size	74 × 74 × 78.8 mm (C:590g)(D)(M58:550g)(E)	60 × 60 × 59 mm (C:280g)(F)(M58:285g)(G)	50 x 45 × 45 mm (207g)(H)	
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	-30~80 ° C (Storage), 0~50° C (Working)		
Lenses Mount	C-Mount，BFL 17.526 mm M58*0.75，BFL 11.48 mm		C-Mount，BFL 17.526 mm	
Digital I/O	Opto-isolated input x 1, opto-isolated output x 1, and bi-directional custom non-isolated I/O x 1，RS232 x 1			
Power Input	DC 9-24V	DC 12-24V CXP-1/2 supports PoCXP	DC 9-24V CXP-1 supports PoCXP	
Power Consumption	Mono/NIR:12V @9.7W Color:12V @10W	Mono:12V @9.9W Color:12V @12W	Mono:12V @7W Color:12V @6.5W	
Driver	iDatum or 3rd party GigE Vision Software	iDatum or Frame Grabber Software Compliant With CoaXPress Protocol		
Operating System	Windows,Linux	Windows		
Conformity	GigE Vision, GenICam	CoaXPress, GenICam		

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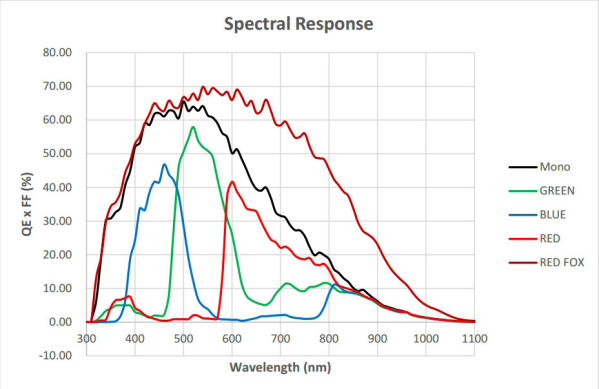
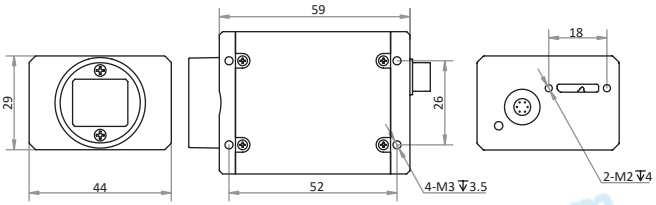
Spectral Response



Dimensions

A



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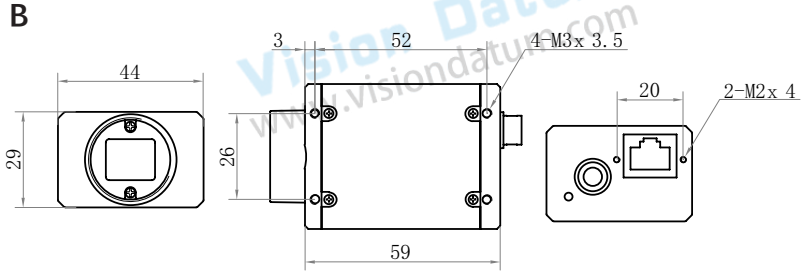

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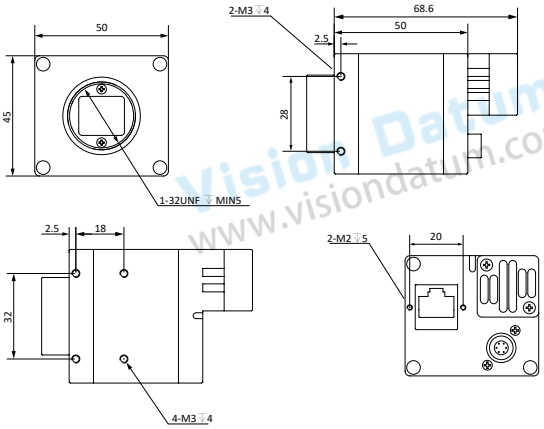

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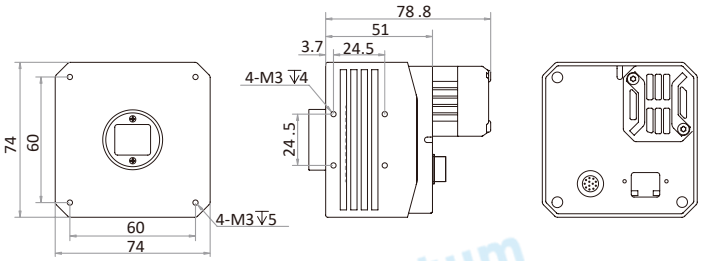

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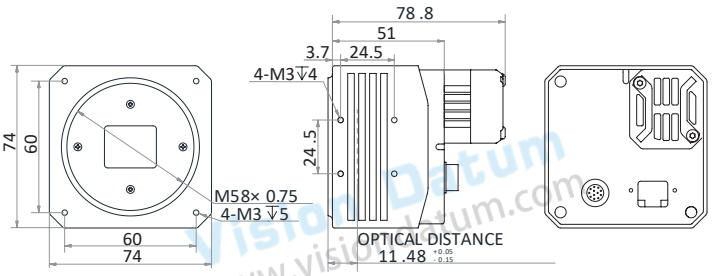

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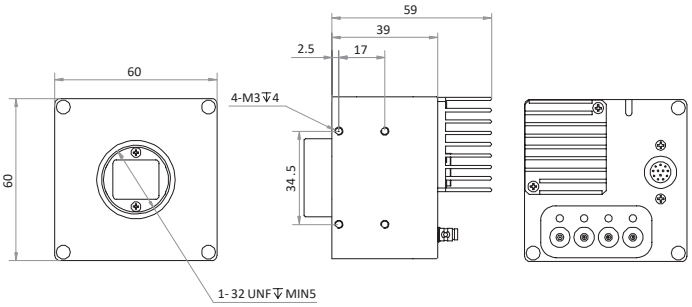

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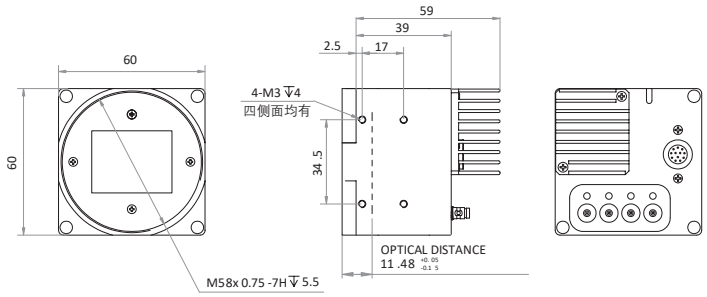
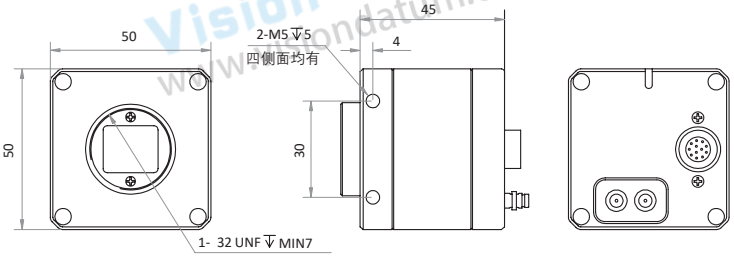


H



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