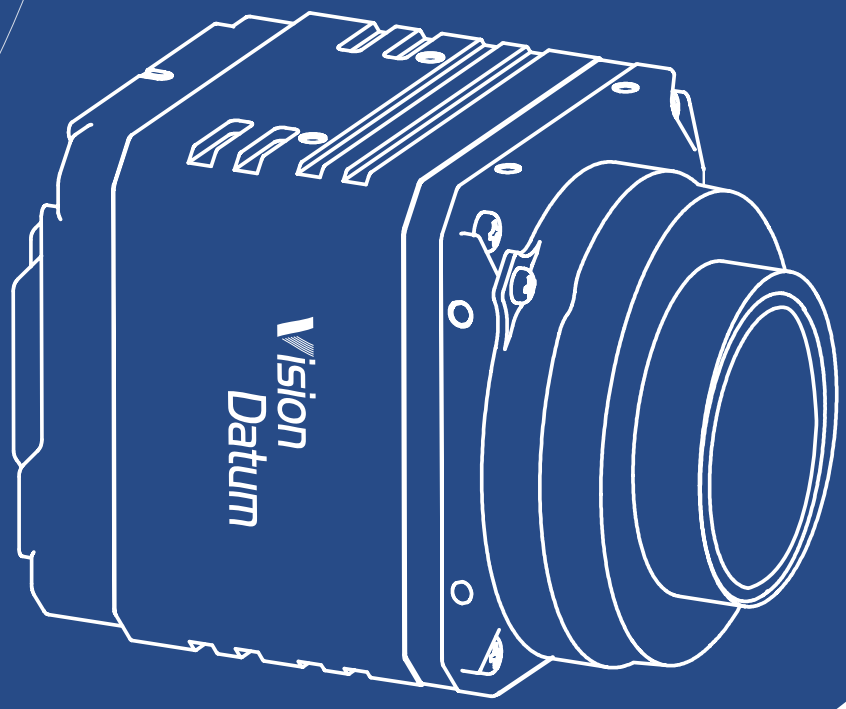
LWIR Camera

Vision Datum

LEO Series Long Wave Infrared Cameras



Vision Datum LEO Series

Long Wave Infrared Cameras

For more info, pls visit:
www.visiondatum.com

Brief Introduction

With the wide application and popularization of machine vision technology, more and more higher requirements proposed by industrial applications, like high precision measurements and high speed inspection. Depend on decade technology accumulation efforts from former cameras, Vision Datum has developed a new series cameras - LEO Series which equipped with excellent image sensors, can be more resistant to experimental clamping, better adapt to complex and harsh visual application environments to ensure stable camera output.

LEO series long-wave infrared cameras use high-sensitivity vanadium oxide uncooled detectors with a response band of 8-14 μm, visualize temperature information, measure temperature characteristics of objects, and meet new application requirements in new energy, auto parts, electronic semiconductors and other industries.

The LEO series of long-wave infrared cameras, all interfaces are standardized and offer the option to provide power and data to the camera via one single cable. The cameras also offer separate input/output ports for triggering or flash control. cover GigE Gigabit Ethernet protocol standards, support GenICam and GigE Vision®, and can seamlessly connect with third-party software such as HALCON and Vision Pro without secondary development.

Main Feature

- Adopts GigE interface and max.transmission distance of 100 meters without relay
- High Sensitivity Uncooled Vanadium Oxide Detector
- Professional SDK secondary development kit
- Seamless access to third-party software platforms or development kits
- Comply with GenICam ™ and GigE Vision® standards

Applications

- PV Detection;
- Medical Detection;
- Firefighting;
- Lithium-battery Detection

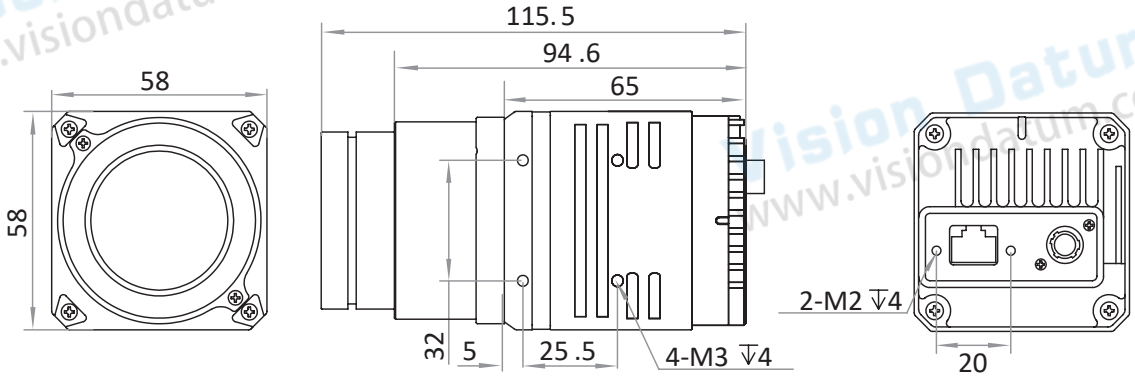
Specifications

Observation Camera Model	Resolution [H×V pixels]	Frame Rate [fps]	Pixel Size [μm²]	Sensor	NETD	EFL	M.O.D	Interface
LEO 64006LW-50gm	640 × 512	50	17	Uncooled VOx Detector	<35 mk(F1.0,25℃)	6.3 mm	0.1m	GigE(PoE)
LEO 64015LW-50gm	640 × 512	50	17	Uncooled VOx Detector	<35 mk(F1.0,25℃)	15 mm	0.1m	GigE(PoE)
LEO 64025LW-50gm	640 × 512	50	17	Uncooled VOx Detector	<35 mk(F1.0,25℃)	25 mm	0.25m	GigE(PoE)
LEO 64035LW-50gm	640 × 512	50	17	Uncooled VOx Detector	<35 mk(F1.0,25℃)	35 mm	0.45m	GigE(PoE)

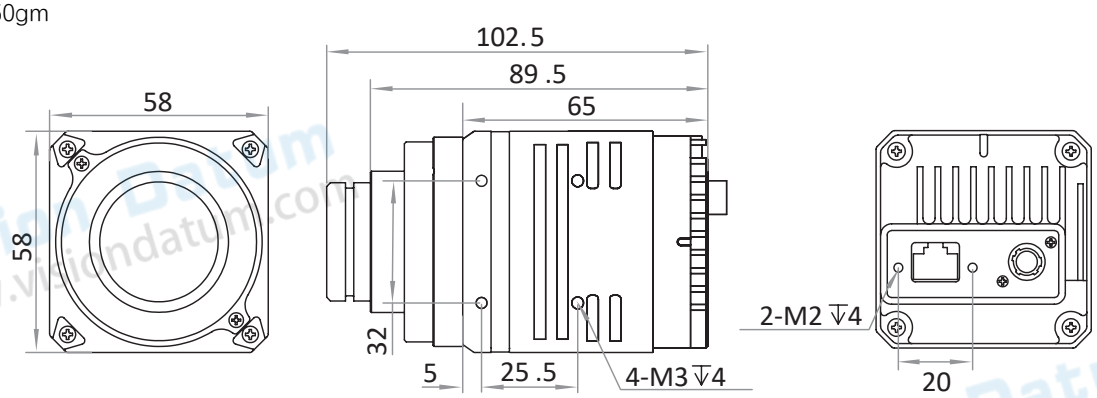
Observation Camera Model	LEO 64006LW-50gm	LEO 64015LW-50gm	LEO 64025LW-50gm	LEO 64035LW-50gm
Pseudo-color Mode	White Hot, Black Hot, Fusion 1, Rainbow,Fusion 2, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice Fire, Rain, Green Hot, Red Hot, Dark Blue			
Image Processing	Supports Brightness, Contrast,Image Detail Enhancement,Digital Noise Reduction (Time Domain, Spatial Domain)			
Image Format	Mono 8/12/14, YUV422_YUYV_Packed			
FOV	88.5° × 73.2°	42.4° × 33.6°	24.6° × 18.5°	17.9° × 14.2°
Lens Mount	M34*0.75			
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 9-24V, Supporting PoE			
Power Consumption	12V @2.5W			
Driver	LEO Series Camera Software Suite (iDatum) or 3rd party GigE Vision Software			

Dimensions

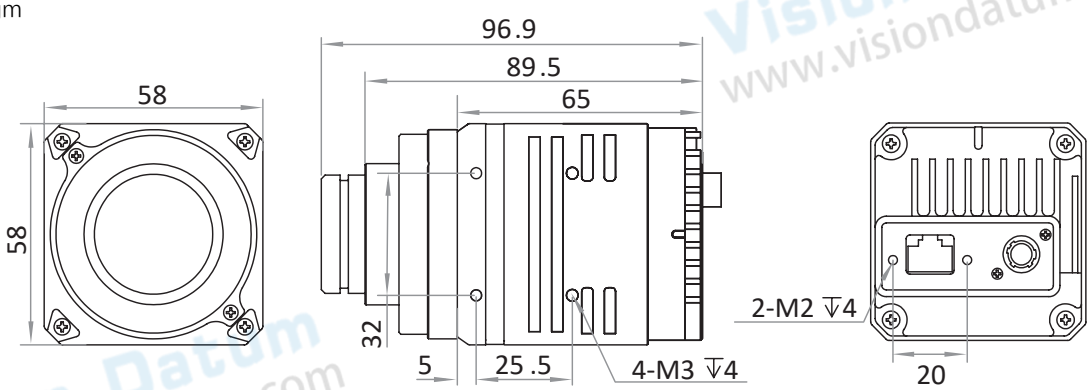
LEO 64006LW-50gm/LEO 64035LW-50gm



LEO 64015LW-50gm



LEO 64025LW-50gm



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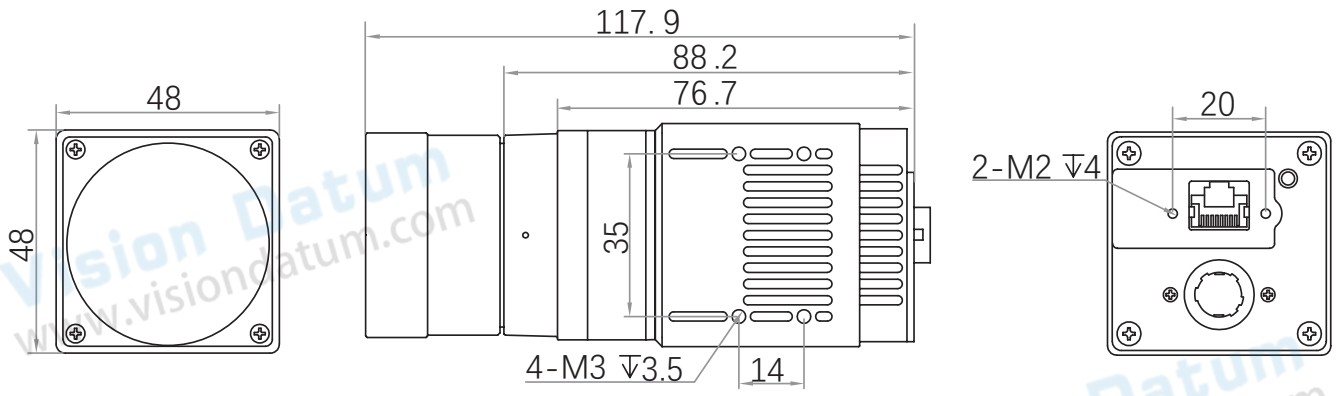
Specifications

Thermometric Camera Model	Resolution [H×V pixels]	Frame Rate [fps]	Pixel Size [μm²]	Sensor	NETD	EFL	M.O.D	Interface
LEO 64006LWT-50gm	640 × 512	50	17	Uncooled VOx Detector	<50 mk(F1.0,30℃)	6.3 mm	0.6m	GigE
LEO 64025LWT-50gm	640 × 512	50	17	Uncooled VOx Detector	<50 mk(F1.0,30℃)	25 mm	0.6m	GigE

Thermometric Camera Model	LEO 64006LWT-50gm	LEO 64025LWT-50gm
Measuring Range	-20 ~ 150℃ or 0 ~ 550℃	
Measurement Accuracy	±2° C or ±2% of reading	
Measurement Farthest Distance	5 m @ target size 0.1 × 0.1 m^2	
Pseudo-color Mode	White Hot, Black Hot, Fusion 1, Rainbow,Fusion 2, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice Fire, Rain, Green Hot, Red Hot	
Image Processing	Supports Brightness, Sharpness, Gamma Correction	
Image Format	Mono 16/32,YUV422	
FOV	88.5° × 73.2°	-
Lens Mount	M34*0.75 (lens cannot be replaced)	
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 9-24V	
Power Consumption	12V @2.8W	
Driver	LEO Series Camera Software Suite (iDatum) or 3rd party GigE Vision Software	

Dimensions



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Industrial Camera

Macro Lens
Industrial Lens

+

Microscope

System Solution
No-programming Software

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Ver.22.04