

# 10GigE

Area Scan Industrial Cameras



**10GiGE<sup>®</sup>**  
VISION

- Excellent Cost Performance
- Low Noise, High Resolution, Excellent Image Quality
- Compatible With Gige Vision Protocol And GenIcam Standard
- 10gige, Compatible With Gige, Supports Long-distance Data Transmission
- Advanced I/O Control

# ABOUT US

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Hangzhou ContrasTech Co., Ltd. is China top leading professional machine vision products manufacturer and supplier, who have been specializing in design, development and producing machine vision products, software and systems.

With advanced technology and creative power of image acquisition and processing, ContrasTech major products have included industrial camera, scientific standard camera, industrial FA lens, telecentric lens, machine vision lights and image processing software. All products comply with international quality standards and we have more than 20 years industry experience in the fields of machine vision image acquisition and processing, optical imaging and automation.

ContrasTech provides free of charge consultation for imaging solution. With excellent pre-sales, quality control and after-sales service team, we are able to respond rapidly in 24 hours and ensure to create best value for customers. ContrasTech will innovate constantly and shall make more brilliant achievements together with our customers in the era of Industry 4.0.

### 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. ContrasTech 10 GigE cameras, equipped with the advanced high-end image sensor, so you can easily find a 10 GigE interface camera suitable for your application, which can meet various machine vision application requirements.

10GigE, compatible with GigE, supports long-distance data transmission. All of these interfaces are standardized and also offer separate input/output ports for triggering or flash control.

### Applications

- VR/AR;
- Defect Inspection;
- Vision Localization;
- Dimension Measurement;
- Barcode Reading;
- Logistic Industry.

ContrasTech 10 GigE cameras compatible with GigE Vision Protocol, GenICam Standard, can smoothly connect with third-party software, without secondary development. ContrasTech 10 GigE cameras with excellent cost performance and fully suitable for various inspection, measurements and high-speed imaging applications. its perfect performance in cellphone and tablet PC screen inspection, LED automatic packing, defect inspection, electronic components manufacturing, wafer positioning and other applications.

### Main Feature

#### High Resolution

Resolution from 12MP to 150MP for Various Applications.

#### 1GB RAM

Internal memory up to 1GB guarantees no image loss.

#### Excellent Cost Performance

### Specifications

Model	Resolution [H*V]	Frame Rate [Max. fps]	Sensor Size	Pixel Size [ $\mu\text{m}^2$ ]	Sensor	Sensor Technology	Color
LEO 12MS-68Tgm/Tgc(V2)-M58	4096 × 3000	68	1.1"	3.45	SONY IMX253	CMOS, Global	黑白 / 彩色
LEO 24MS-35Tgm-M58	5328 × 4600	35.1	1.2"	2.74	SONY IMX540	CMOS, Global	黑白
LEO 24MS-35Tgm-C <b>NEW</b>	5328 × 4600	35.1	1.2"	2.74	SONY IMX540	CMOS, Global	黑白
LEO 25MD-30Tgm-M58 <b>NEW</b>	5120 × 5120	31.7	23 × 23 mm	4.5	/	CMOS, Global	黑白
LEO 25MG-40Tgm/Tgc-M58 <b>NEW</b>	5120 × 5120	41.5	1.1"	2.5	Gpixel GMAX0505	CMOS, Global	黑白 / 彩色
LEO 25MG-40TgNIR-M58 <b>NEW</b>	5120 × 5120	41.5	1.1"	2.5	Gpixel GMAX0505	CMOS, Global	近红外
LEO 25MG-40Tgm/Tgc-C <b>NEW</b>	5120 × 5120	41.5	1.1"	2.5	Gpixel GMAX0505	CMOS, Global	彩色
LEO 31MS-17Tgm/Tgc-M58	6464 × 4852	17.2	24.9 × 16.6 mm	3.45	IMX342	CMOS, Global	黑白 / 彩色
LEO 50MG-15Tgm/Tgc-M58	7008 × 7000	15.5	22.4 × 22.4 mm	3.2	Gpixel GMAX	CMOS, Global	黑白 / 彩色
LEO 50MG-15Tgm-F	7008 × 7000	15.5	22.4 × 22.4 mm	3.2	Gpixel GMAX	CMOS, Global	黑白
LEO 65MG-15Tgm/Tgc-M58	9344 × 7000	15.5	29.9 × 22.4 mm	3.2	Gpixel GMAX3265	CMOS, Global	黑白 / 彩色
LEO 65MG-15Tgm/Tgc-F	9344 × 7000	15.5	29.9 × 22.4 mm	3.2	Gpixel GMAX3265	CMOS, Global	黑白 / 彩色
LEO 150MSC-6Tgm-M72	14208 × 10640	6.2	66.7 mm	3.76	SONY IMX411	CMOS, Rolling	黑白

### Specifications



Model	Resolution [H*V]	Frame Rate [Max. fps]	Sensor Size	Pixel Size [ $\mu\text{m}^2$ ]	Sensor	Sensor Technology	Color
Mars12MS-68Tgm/Tgc-M58	4096 x 3000	68	1.1"	3.45	SONY IMX253	CMOS, Global	Mono / Color
Mars25MG-41Tgm/Tgc-M58 <sup>NEW</sup>	5120 x 5120	41	1.1"	2.5	Gpixel GMAX0505	CMOS, Global	Mono / Color
Mars25MP-43Tgm/Tgc-M58	5120 x 5120	43	23 x 23 mm	4.5	Onsemi PYTHON25K	CMOS, Global	Mono / Color
Mars65MG-18Tgm/Tgc-M58	9344 x 7000	17.4	29.9 x 22.4 mm	3.2	Gpixel GMAX3265	CMOS, Global	Mono / Color

Model	Mars12MS-68Tgm/Tgc	Mars25MG-41Tgm/Tgc-M58
Camera	<b>Fan Cooling</b>	<b>Fan Cooling</b>
Data Bits	10bit	10bit
Exposure Time	1 $\mu\text{s}$ ~15s	35 $\mu\text{s}$ ~15s
Dynamic Range	>71dB	58dB
Image Format	Mono: Mono8/10/10Packed Color: BayerRG8/BayerGB8/BayerRG10/BayerGB10/BayerRG10Packed/BayerGB10Packed	
Interface	10GigE	
Synchronization	Via hardware trigger, via software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction.	
<b>Electrical</b>		
Housing Size[L*W*H]	(*L) 72.0 × 72.0 × 78.0 mm (585g)	(*M) 72.0 × 72.0 × 78.0 mm (585g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)	
Lens Mount	M58*0.75(FBL 12)	
Digital I/O	3 opto-isolated input, 3 opto-isolated output, 1 RS232	
Power Input	DC24V	
Power Consumption	24V @18.7W	24V @21.6W
Driver	Mars series camera software suite or third-party GigE vision protocol software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

### Specifications



Model	Mars25MP-43Tgm/Tgc	Mars65MG-18Tgm/Tgc
Camera	<b>Fan Cooling</b>	<b>Fan Cooling</b>
Data Bits	10bit	12bit
Exposure Time	35µs~15s	16µs~15s
Dynamic Range	58dB	66dB
Image Format	Mono: Mono8/10/10Packed Color: BayerRG8/BayerGB8/BayerRG10/BayerGB10/ BayerRG10Packed/BayerGB10Packed	Mono: Mono8 Color: BayerRG8/BayerGB8
Interface	10GigE	
Synchronization	Via hardware trigger, via software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction.	
<b>Electrical</b>		
Housing Size[L*W*H]	(*J) 72.0 × 72.0 × 78.5 mm (585g)	(*K) 72.0 × 72.0 × 80.0 mm (600g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)	
Lens Mount	M58*0.75(FBL 12)	
Digital I/O	3 opto-isolated input, 3 opto-isolated output, 1 RS232	
Power Input	DC24V	
Power Consumption	24V @21.6W	24V @20.16W
Driver	Mars series camera software suite or third-party GigE vision protocol software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

### Specifications



Model	LEO 12MS-68Tgm/Tgc(V2)-M58	LEO 24MS-35Tgm-M58/C
Camera	Fan Cooling	Heatsink Cooling
Data Bits	8bit / 10bit / 12bit	8bit / 10bit / 12bit
Exposure Time	15μs~10s Ultra Short Exposure Mode: 2μs~14μs	8μs~10s Ultra Short Exposure Mode: 1μs~7μs
Dynamic Range	>71dB	71dB
Image Format	Mono: Mono 8/10/10Packed/12/12Packed Color: Mono 8,Bayer RG 8,YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8	
Interface	10GigE	
Synchronization	Via hardware trigger, via software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction.	
<b>Electrical</b>		
Housing Size[L*W*H]	(*A) 74.0×74.0×72.4 mm (550g)	(*B) 84.0×84.0×62.5 mm (600g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	M58*0.75(FBL 11.48)	M58*0.75(FBL 11.48) C-Mount (FBL 17.52)
Digital I/O	1 opto-isolated input, 1 opto-isolated output, 1 bidirectional custom non-isolation I/O, 1 RS232	
Power Input	DC9-24V	DC9-24V
Power Consumption	Mono: 24V @9.6W Color: 24V @10.1W	12V @10W
Driver	LEO series camera software suite or third-party GigE vision protocol software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

### Specifications



Model	LEO 25MD-30Tgm-M58	LEO 25MG-40Tgm/Tgc/TgNIR-M58 LEO 25MG-40Tgm/Tgc-C
Camera	<b>Fan Cooling</b>	<b>Fan Cooling</b>
Data Bits	8bit / 10bit / 12bit	8bit / 10bit / 12bit
Exposure Time	15μs~10s	13μs~10s
Dynamic Range	66dB	63dB
Image Format	Mono: Mono 8/10/10Packed/12/12Packed Color: Mono 8,Bayer RG 8,YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8	
Interface	10GigE	
Synchronization	Via hardware trigger, via software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction.	
<b>Electrical</b>		
Housing Size[L*W*H]	(*C) 74.0×74.0×78.8 mm (550g)	M58 (*D) 74.0 ×74.0 ×78.7mm(550g) C-Mount(*E) 74.0 ×74.0 ×78.7mm(600g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	M58*0.75(FBL 11.48)	M58*0.75(FBL 11.48) / C-Mount (FBL 17.52)
Digital I/O	1 opto-isolated input, 1 opto-isolated output, 1 bidirectional custom non-isolation I/O, 1 RS232	
Power Input	DC12-24V	DC9-24V
Power Consumption	12V @15.1W	Mono: 12V @9.7W Color: 12V @10W NIR: 12V @9.7W
Driver	LEO series camera software suite or third-party GigE vision protocol software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

### Specifications



Model	LEO 31MS-17Tgm/Tgc-M58	LEO 50MG-15Tgm/Tgc-M58 LEO 50MG-15Tgm-F
Camera	<b>Heatsink Cooling</b>	<b>Fan Cooling</b>
Data Bits	8bit / 10bit / 12bit	8bit / 10bit / 12bit
Exposure Time	4μs~10s	15μs~10s
Dynamic Range	73dB	66dB
Image Format	Mono: Mono 8/10/10Packed/12/12Packed Color: Mono 8/10/12, Bayer RG8/10/10Packed/12/12Packed, YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8	Mono: Mono 8/10/10Packed/12/12Packed Color:Mono 8/10/12, Bayer BG8/10/10Packed/12/12Packed, YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8
Interface	10GigE	
Synchronization	Via hardware trigger, via software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction.	
<b>Electrical</b>		
Housing Size[L*W*H]	(*F) 74.0 ×74.0 ×64.4mm(560g)	M58 (*C) 74.0×74.0×78.8mm (550g) F-Mount (*G) 74.0 ×74.0 ×84.8mm(600g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	M58*0.75(FBL 11.48)	M58*0.75(FBL 11.48) / F-Mount (FBL 46.5)
Digital I/O	1 opto-isolated input, 1 opto-isolated output, 1 bidirectional custom non-isolation I/O, 1 RS232	
Power Input	DC9-24V	DC9-24V
Power Consumption	Mono: 12V @11.5W Color: 12V @11.4W	Mono: 12V @11W Color: 12V @12W
Driver	LEO series camera software suite or third-party GigE vision protocol software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	



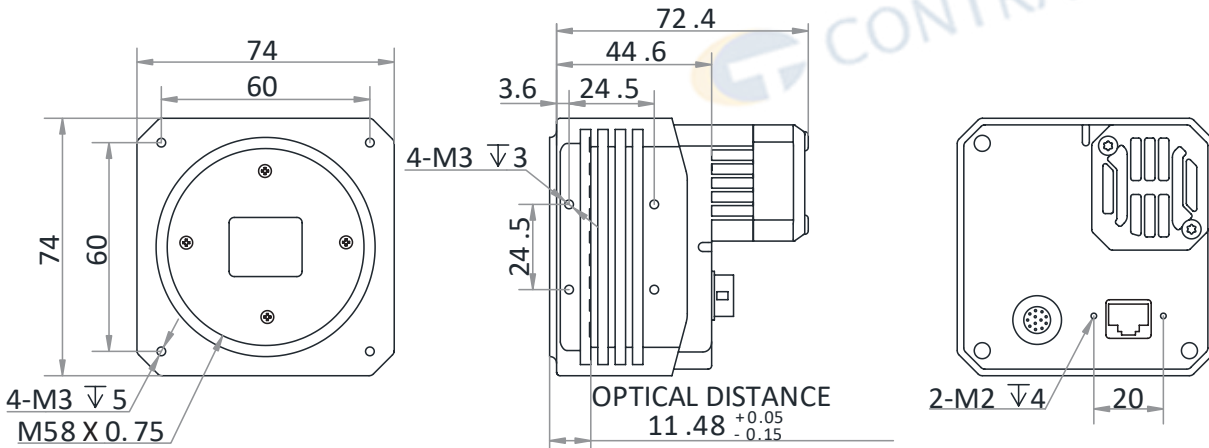
### Specifications



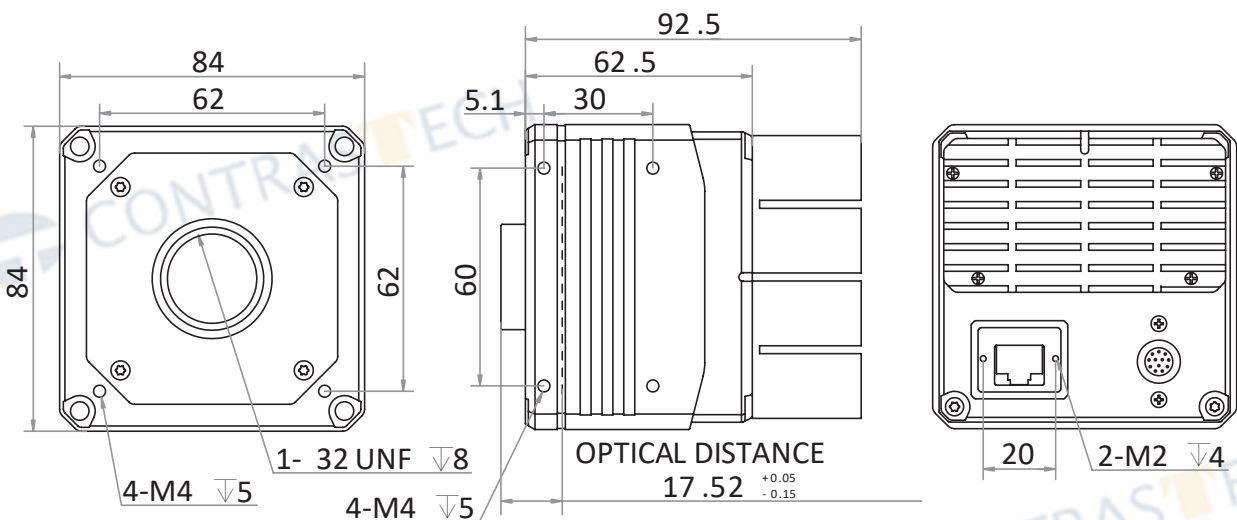
Model	LEO 65MG-15Tgm/Tgc-M58/F	LEO 150MSC-6Tgm-M72
Camera	<b>Fan Cooling</b>	<b>TEC Cooling</b>
Data Bits	8bit / 10bit / 12bit	8bit / 10bit / 12bit
Exposure Time	18μs~10s	15μs~10s
Dynamic Range	66dB	>78dB
Image Format	Mono: Mono 8/10/10Packed/12/12Packed Color: Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8	Mono 8/10/10p/12/12p/16
Interface	10GigE	
Synchronization	Via hardware trigger, via software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction.	
<b>Electrical</b>		
Housing Size[L*W*H]	M58 (*C) 74.0×74.0×78.8 mm (550g) F-Mount (*G) 74.0 ×74.0 ×84.8mm(600g)	(*H) 120.0×120.0×89.0mm (2500g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	M58*0.75(FBL 11.48) / F-Mount (FBL46.5)	M72*0.75(FBL 19.55)
Digital I/O	1 opto-isolated input, 1 opto-isolated output, 1 bidirectional custom non-isolation I/O, 1 RS232	
Power Input	DC9-24V	DC24V
Power Consumption	Mono: 12V @10.2W Color: 12V @11.6W	Non-TEC: 24V @11.28W TEC: 24V @48.96W
Driver	LEO series camera software suite or third-party GigE vision protocol software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

### Dimensions: (mm)

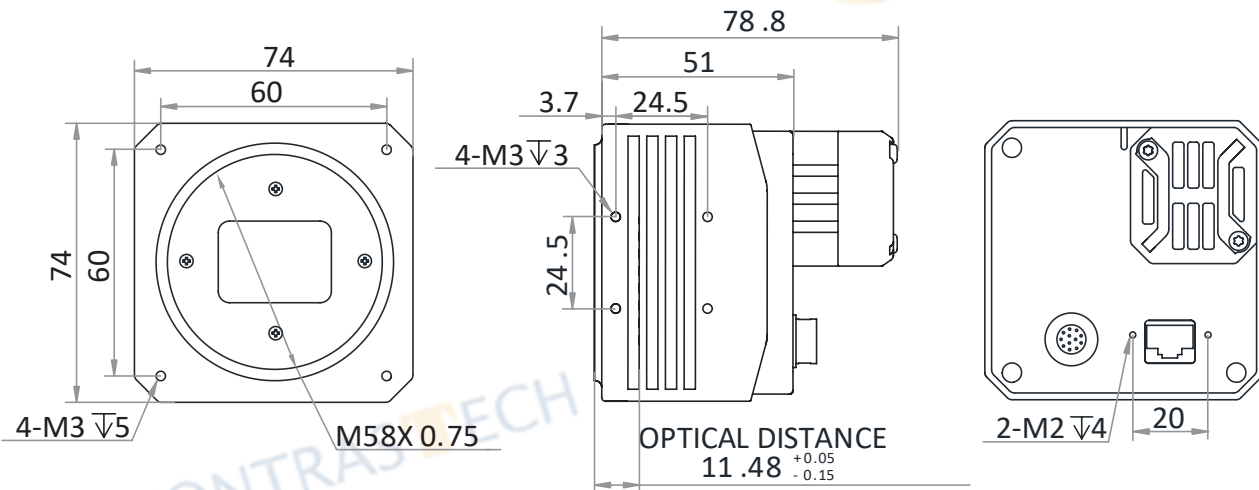
\*A



\*B

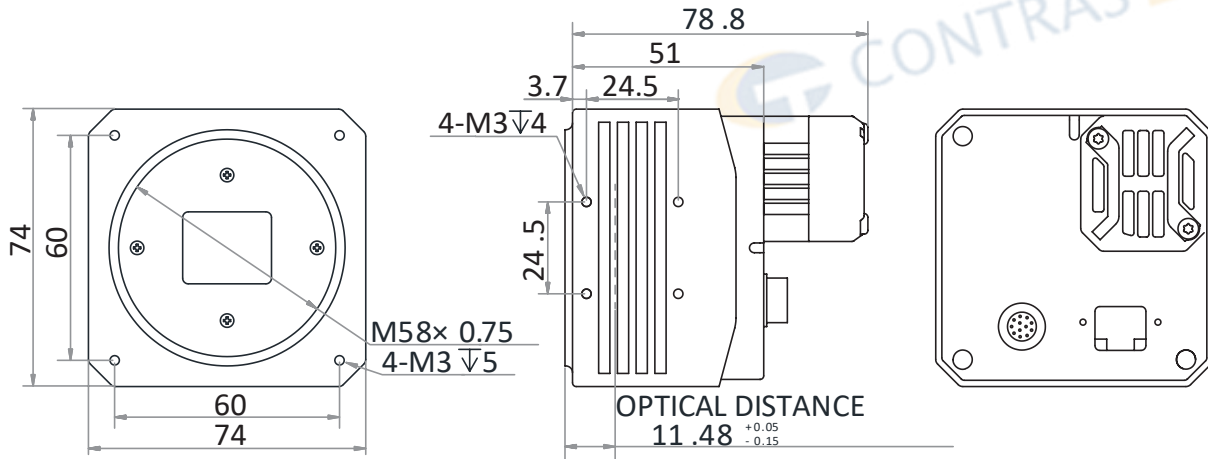


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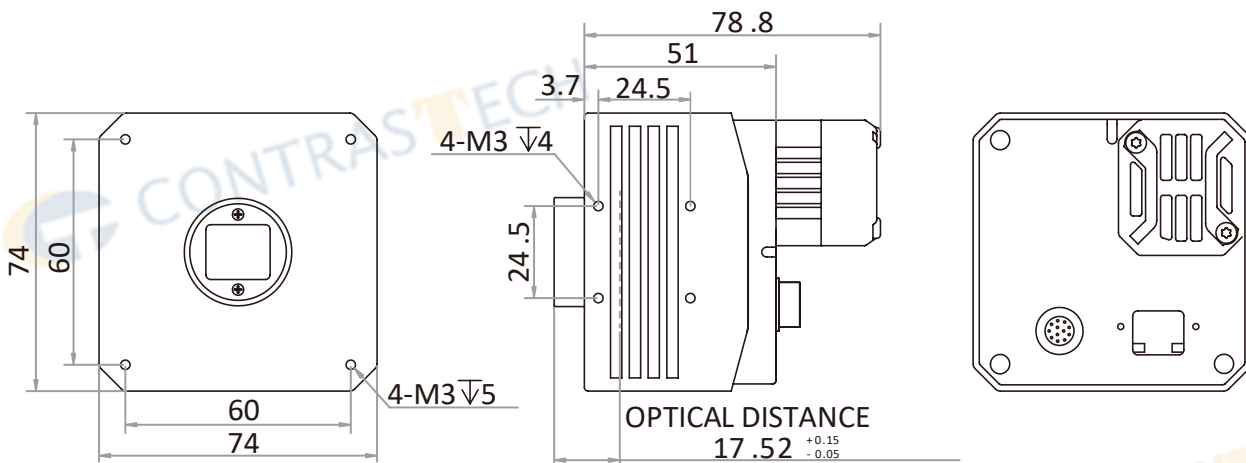


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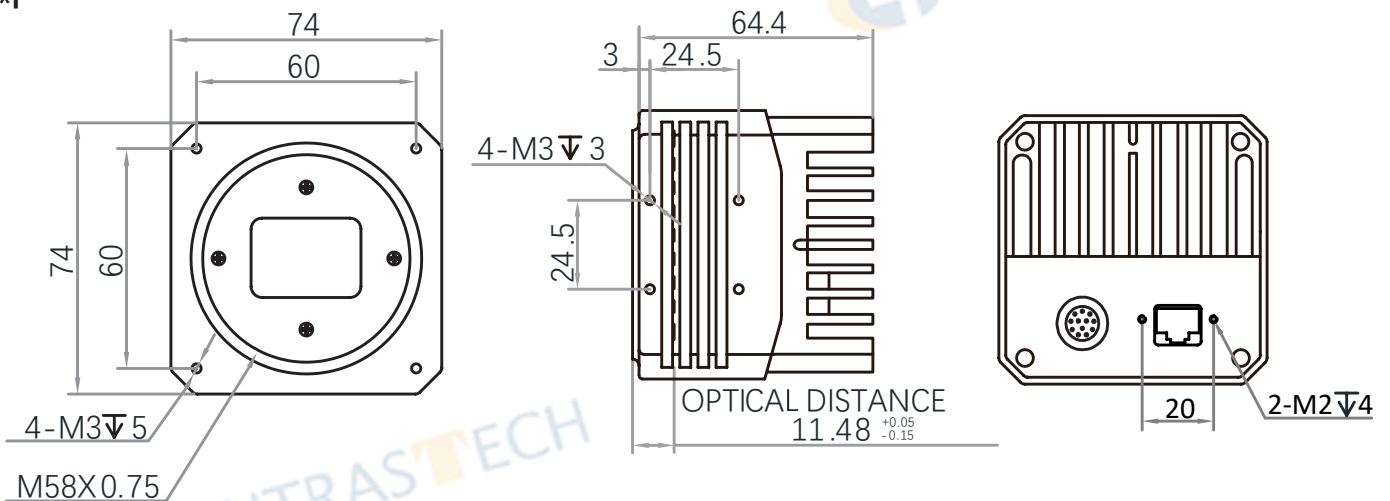
\*D



\*E

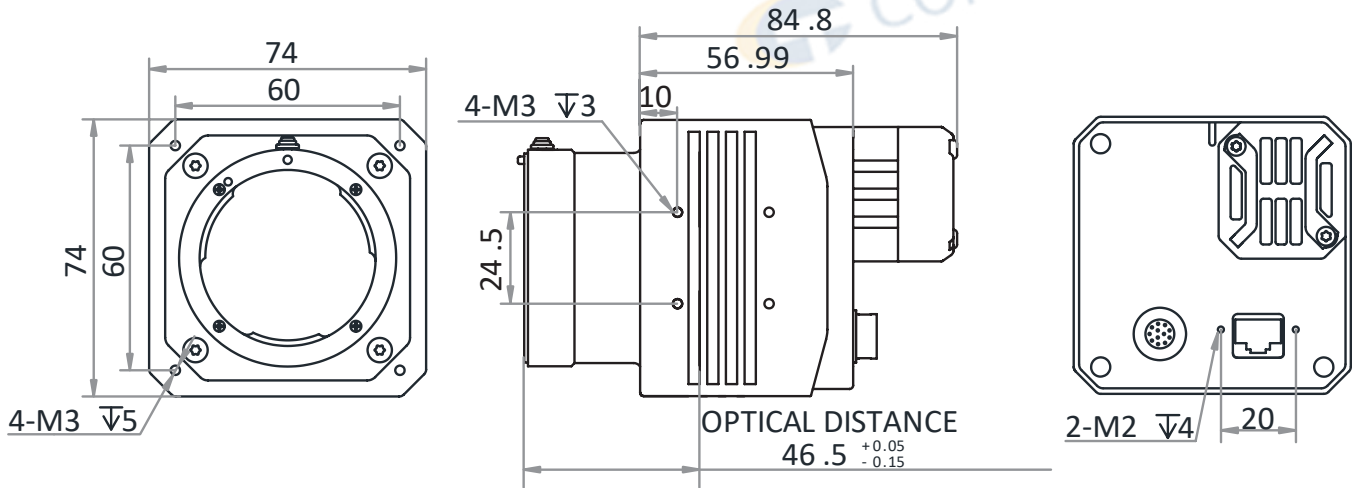


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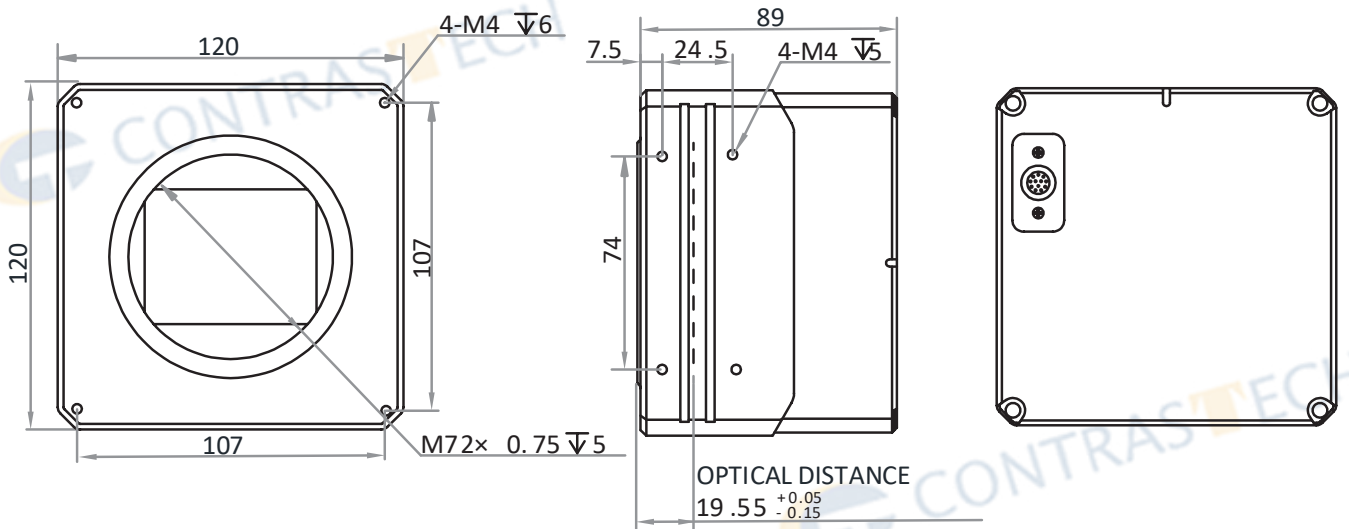


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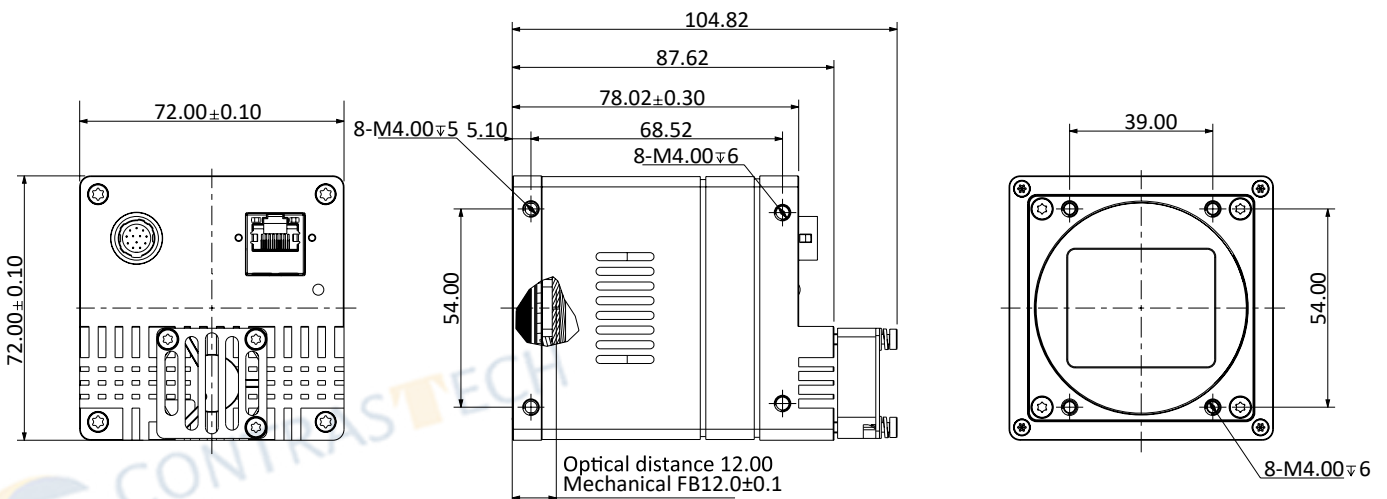
\*G



\*H

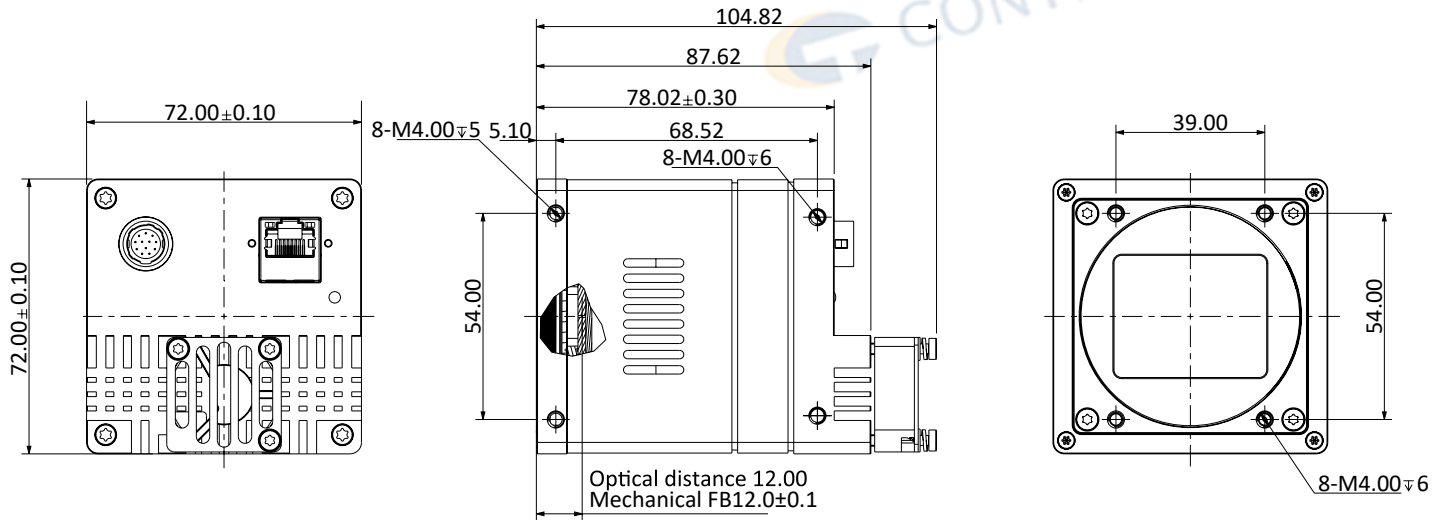


\*I

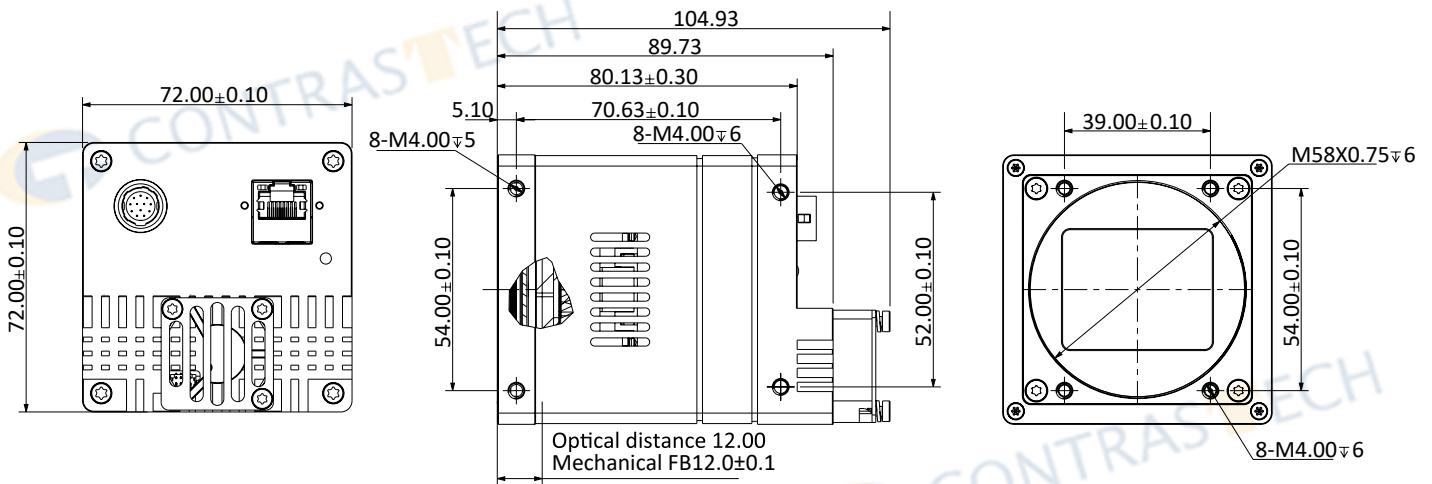


### Dimensions: (mm)

\*J



\*K



# Vision And More Available !

让工业更智能，让视觉更简单！



SWIR/LWIR Camera  
Industrial Camera



Line Scan Camera Lens, Macro Lens  
Industrial Lens, SWIR Lens



Microscope



System Solution  
No-programming Software

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