

Empowering Intelligent Manufacturing and Business Efficiency

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ZHEJIANG HUARAY TECHNOLOGY CO.,LTD.

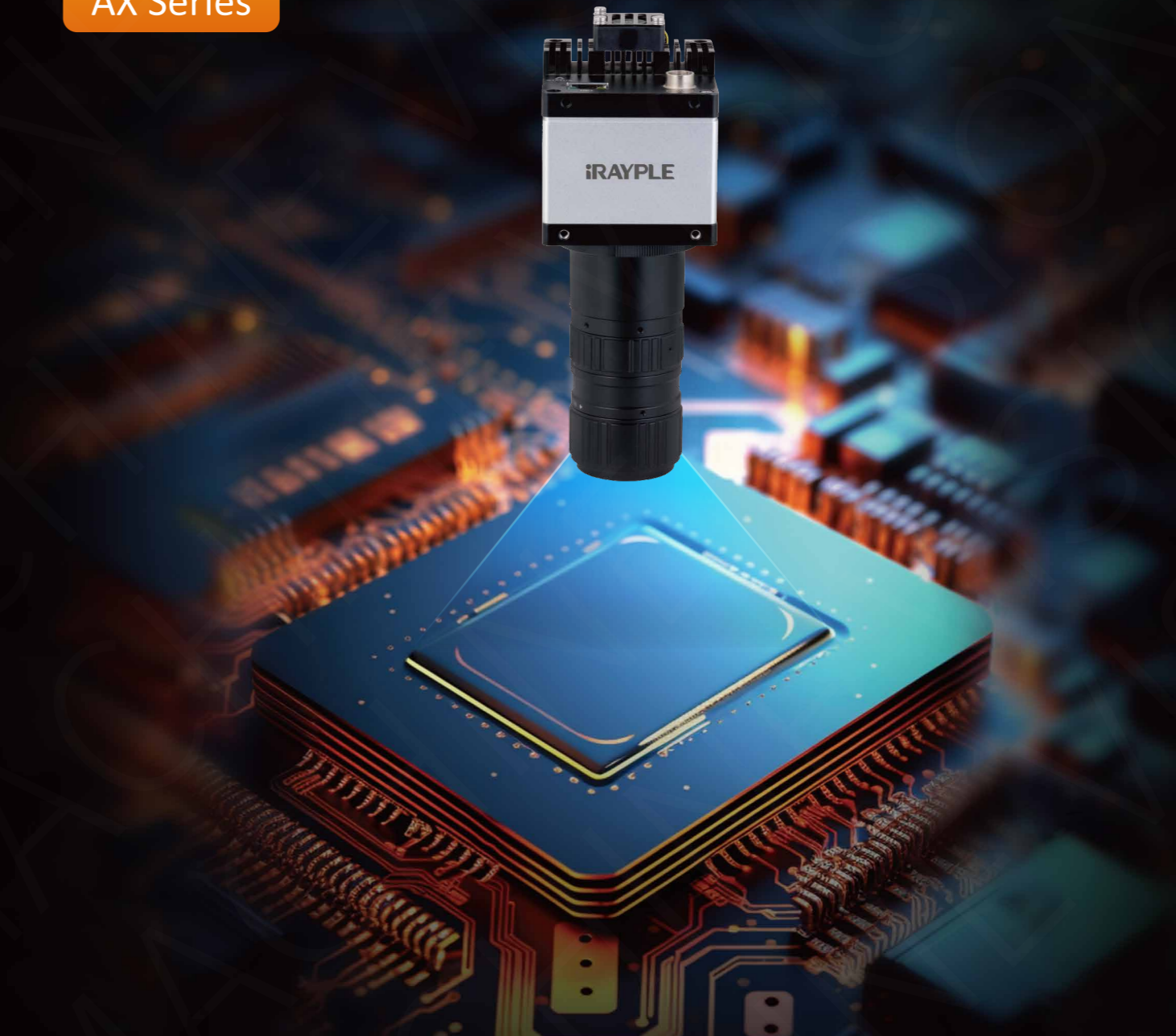
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iRAYPLE

LARGE AREA SCAN INDUSTRIAL CAMERA

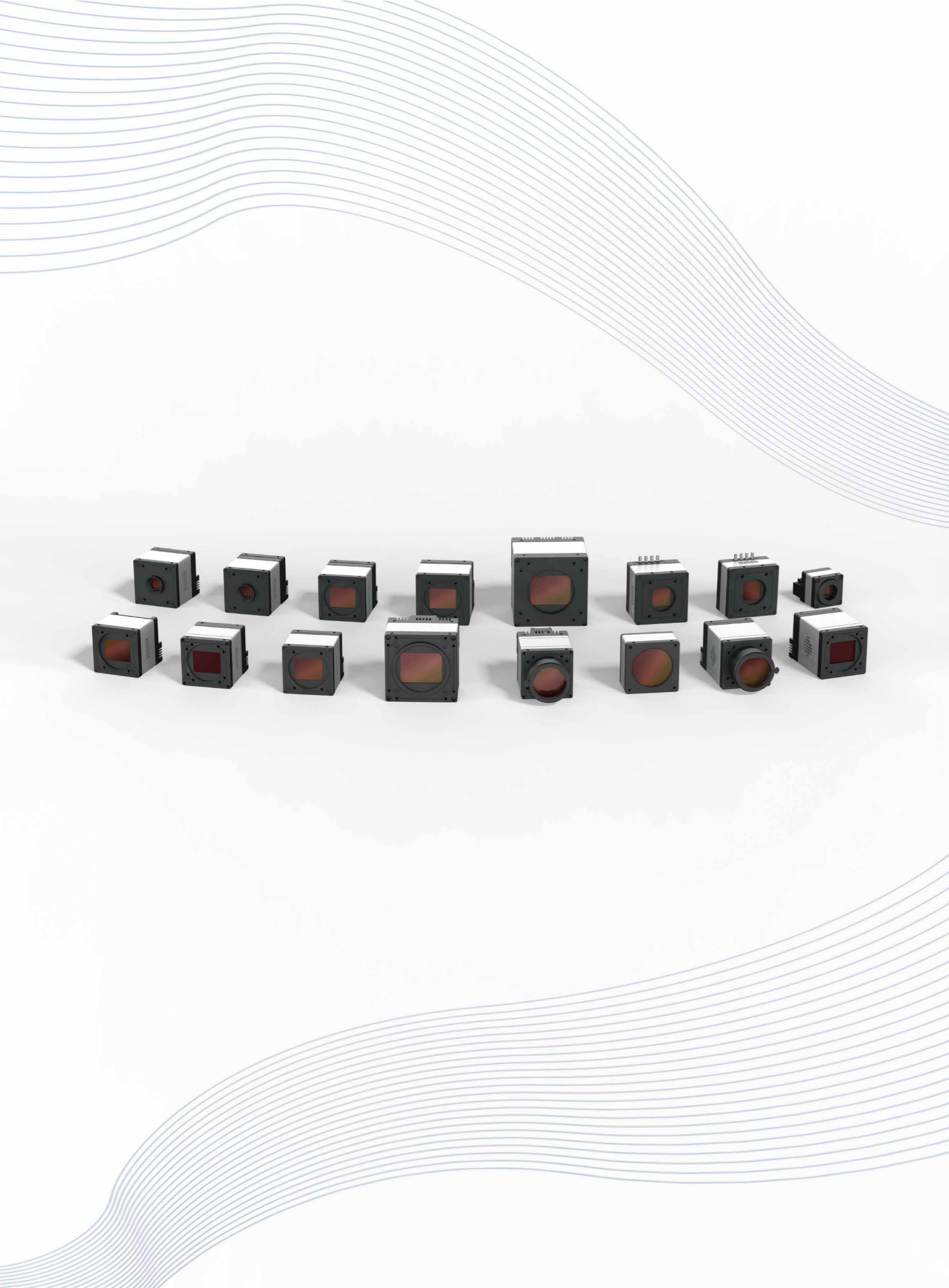
AX Series



High Frame Rate, High Resolution, High Image Quality

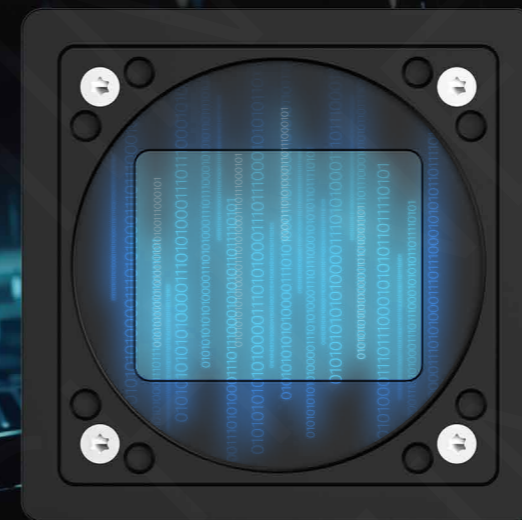
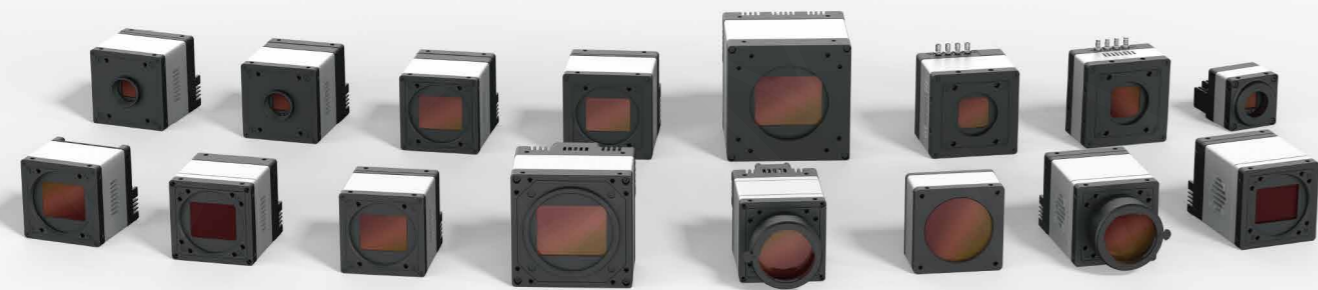
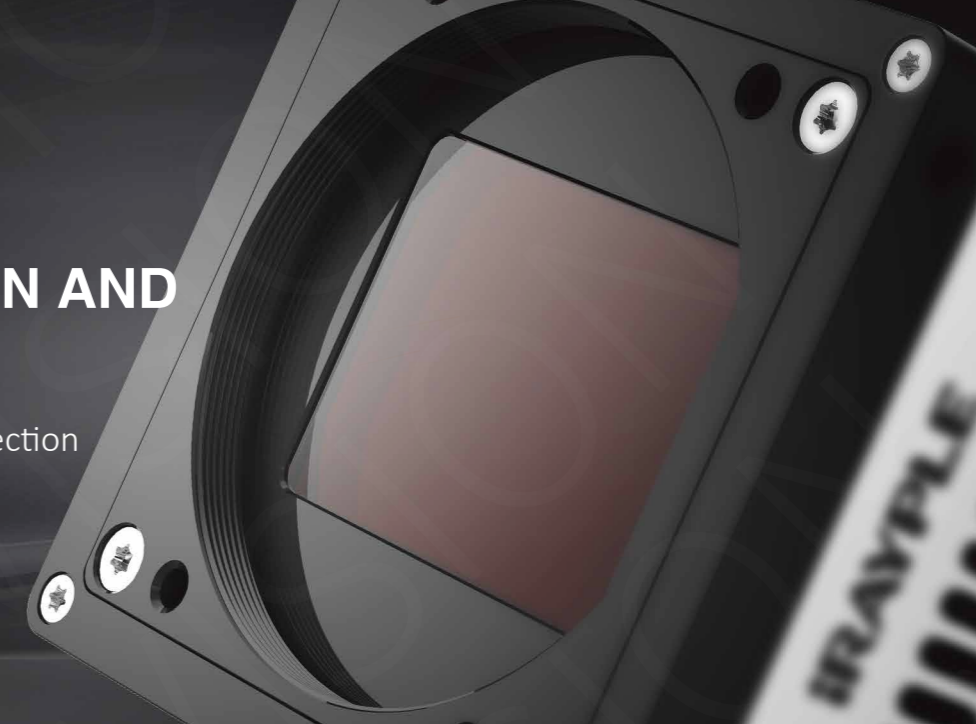
Designed for the EV Battery, Photovoltaic, Semiconductor
Flat Panel Display Industries and others

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HIGH RESOLUTION AND FRAME RATE

Suitable for High-precision Inspection

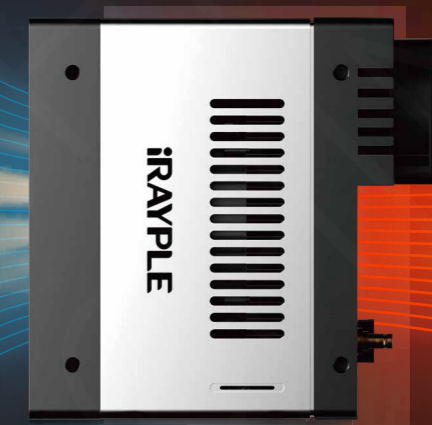


ISP ALGORITHMS

Uniform and Balanced Images

THERMOELECTRIC COOLING(TEC)

Keep the Sensor Working at A Stable Temperature



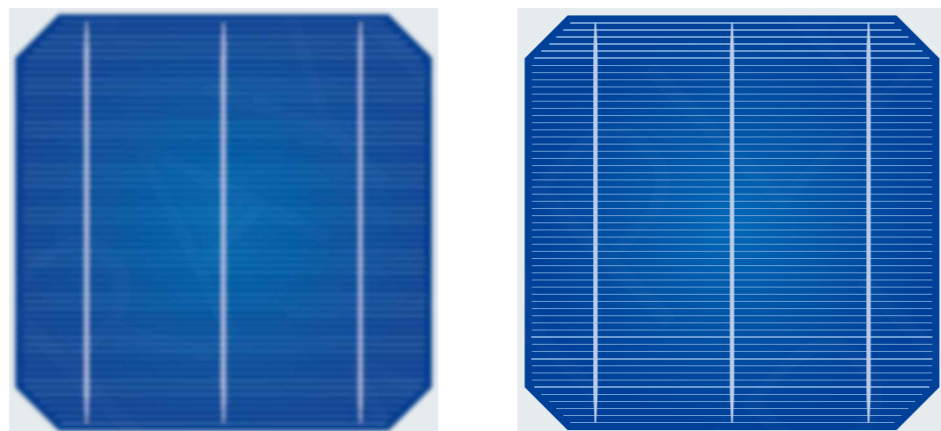
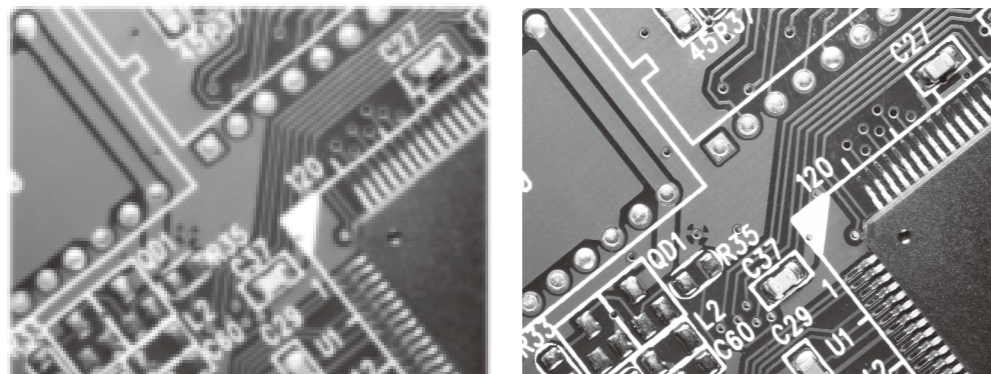
HIGH RESOLUTION AND FRAME RATE

Suitable for High-precision Inspection

- 5-604 MP resolution
- GigE, Camera Link, 10GigE, CXP-6 and CXP-12
- Ultra-high frame rate for image grabbing in high-speed

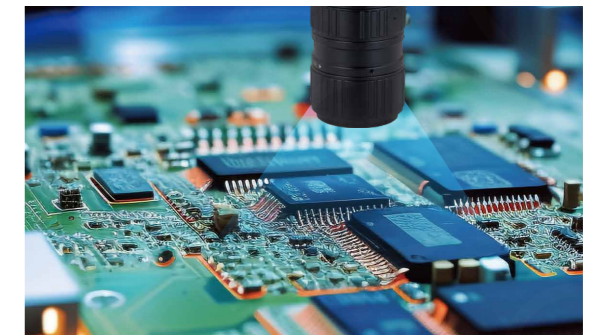
High Resolution Images for High-precision Inspection

The camera supports ultra-high resolution, making it suitable for inspection of high-end flat panel display and SMT. Product defects can be inspected with high precision to increase yield and product quality .



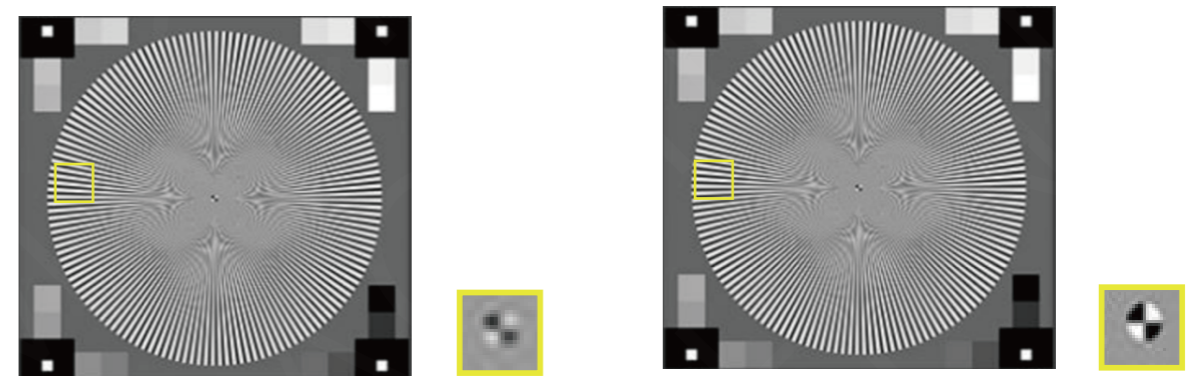
Ultra-short Exposure Time and Ultra-high Frame Rate

The short exposure time is mainly used in the flying shooting scene above the production line, and the high-speed industrial camera can independently position the workpiece and complete the batch rapid snapshot of the target vision, improving the accuracy of product inspection.



Pixel Shift

Install a voltage driver module on the SENSOR board to make the sensor move several times at the pixel level. For example, 151MP sensor can reach 604MP through 4 moves, realizing extremely high resolution and high image quality. It is especially suitable for FPD screen inspection.



Pixel Shift Off

Pixel Shift On

ISP ALGORITHMS

Uniform and Balanced Images

- Displays high-quality images in great details by using pixel-by-pixel FFC, shadow correction, auto exposure, and automatic gain.

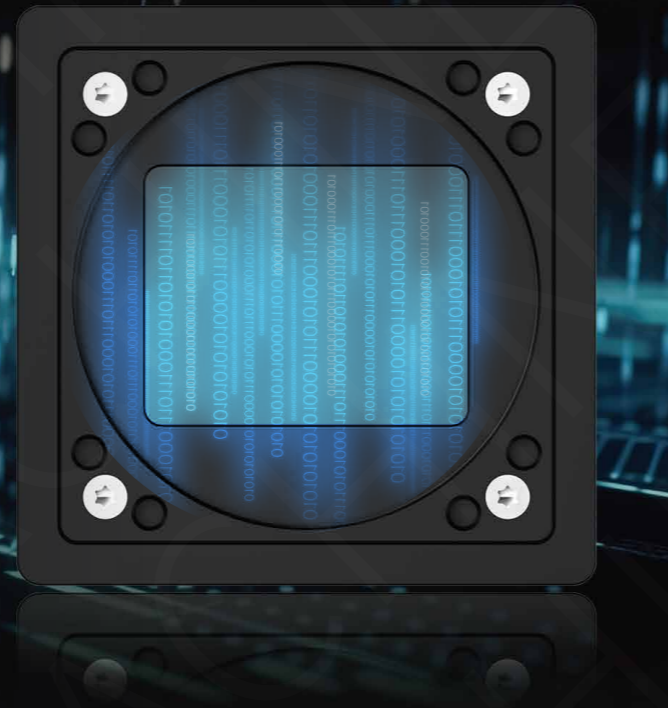
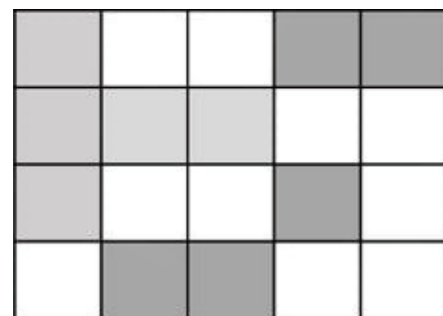
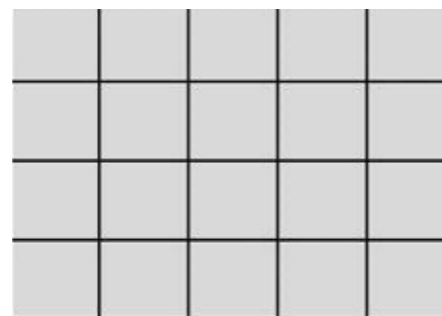


Image Consistency with Pixel-by-Pixel FFC

It is used to eliminate the response difference of each pixel in the image sensor, and can correct the dark field non-uniformity and response non-uniformity between pixels, which has excellent correction effect on the fixed-pattern noise of the sensor.



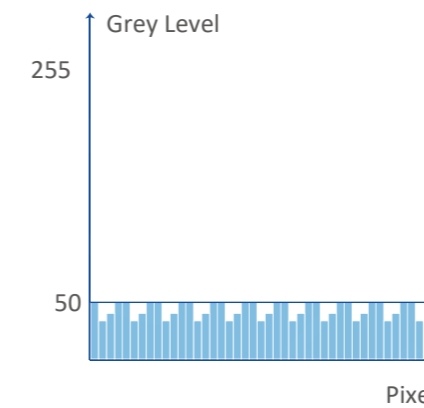
Before Optimization



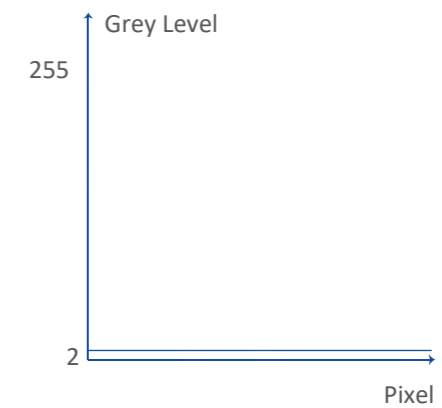
After Optimization

Pixel-based Dark Field Correction (DSNU)

DSNU correction measures and compensates for dark signal non-uniformity per pixel by grabbing dark images. After correction, fixed-pattern noise can be significantly reduced and image quality can be improved.



Before Optimization



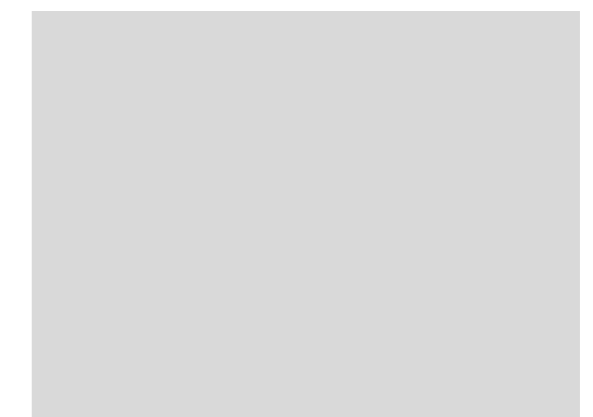
After Optimization

PRNU Correction

Due to the different responses of each pixel to light, non-uniformity in pixel response occurs in images. PRNU correction measures and compensates for the non-uniformity in light response of each pixel by grabbing bright images, which can significantly improve the clarity and contrast of images, increase the dynamic range of the camera, and make the images more real.



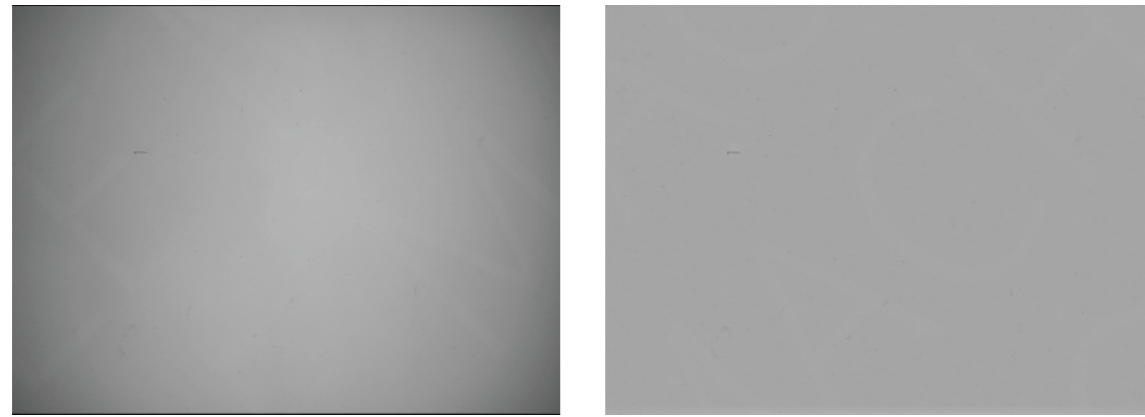
Before Optimization



After Optimization

LSC

Shadow correction is usually used to solve the issues caused by uneven mutulators and lens shading. Shading correction is particularly useful to correct the non-uniform response to continuous changes.

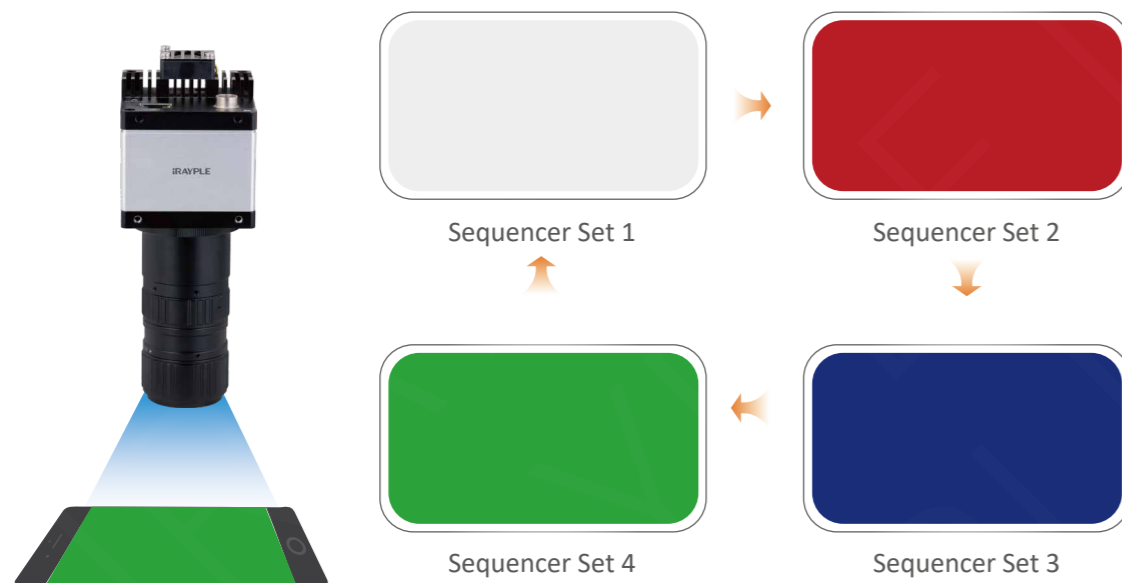


Before Optimization

After Optimization

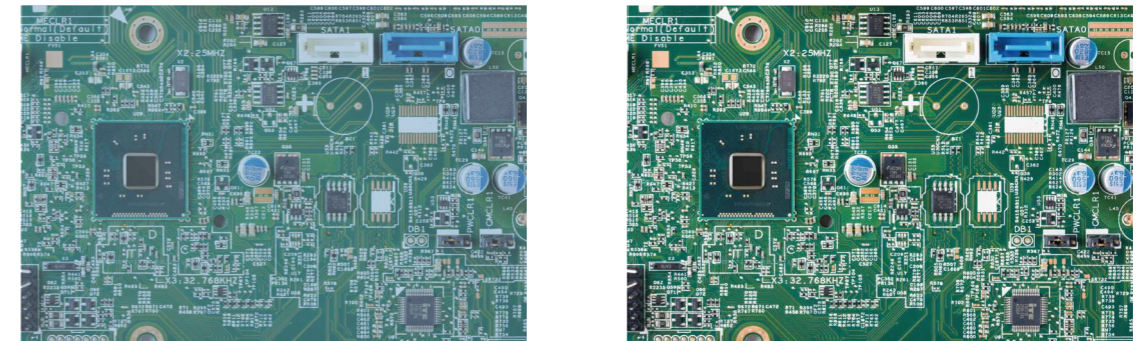
Sequencer Mode for Inspection in Multiple Scenes

Supports 8 groups of sequencer functions, using different parameters to match different light sources.



CCM- Color Correction Matrix, Color Reproduction is Higher

CCM- color correction matrix, generally with a 3x3 transformation matrix, the color of the image is transformed to the target value, so that the color reproduction is closer to the real.

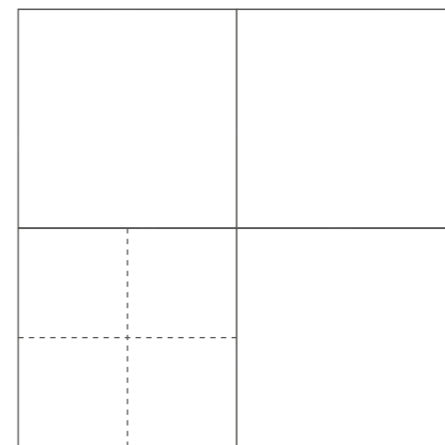


Before Optimization

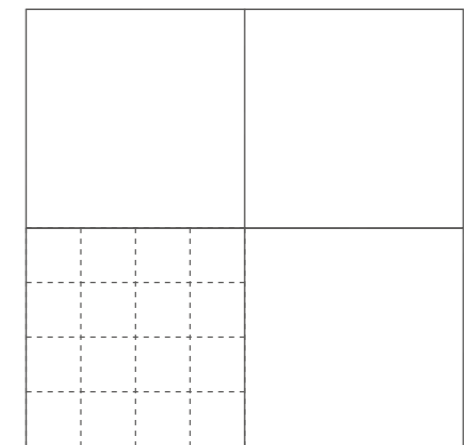
After Optimization

Enhanced Binning

Binning can increase image brightness and signal-to-noise ratio to greatly improve the quality of images.



2 X 2 Binning

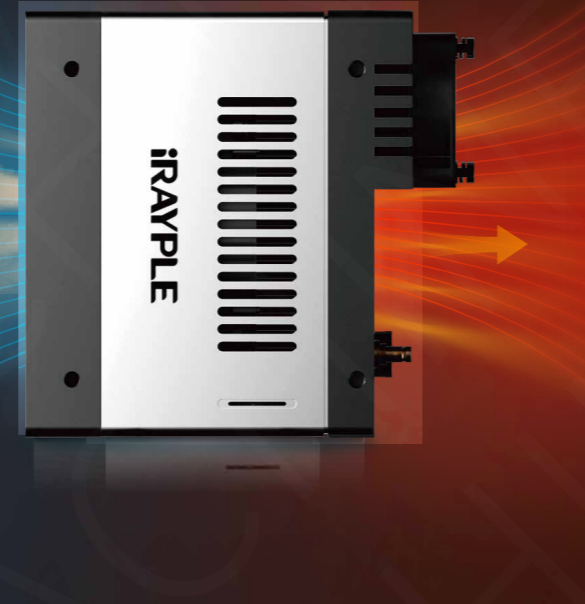


4 X 4 Binning

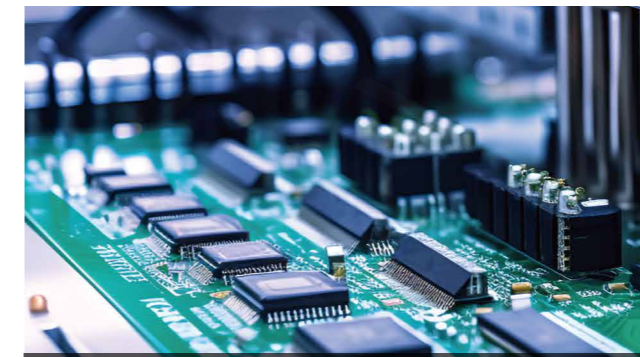
THERMOELECTRIC COOLING(TEC)

Keep the Sensor Working at A Stable Temperature

TEC cooling is used to ensure the low sensor temperature thus to assure the low noise level.



APPLICATIONS



Inspection in the SMT Industry



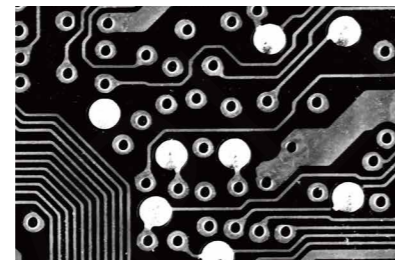
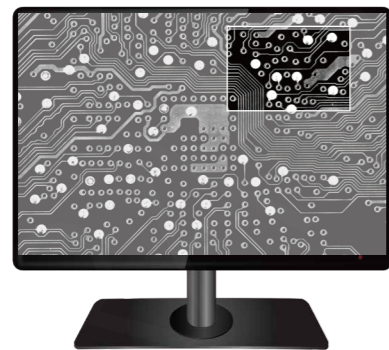
Inspection in the Pharmaceutical Industry

Strong Cooling System

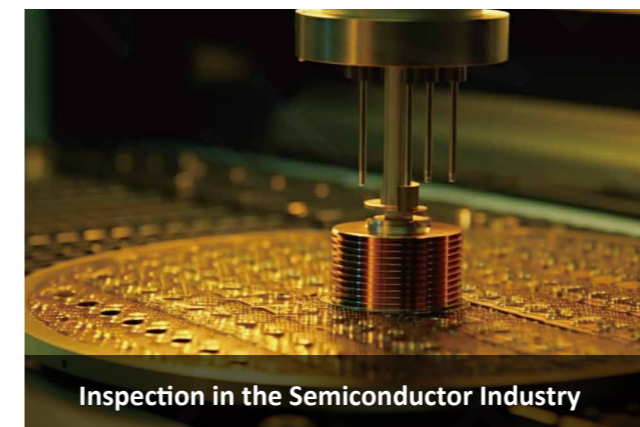
Outstanding TEC cooling technology is used to ensure the camera operation in a stable temperature, so that to improve the camera reliability and image production in great details.



Before Optimization



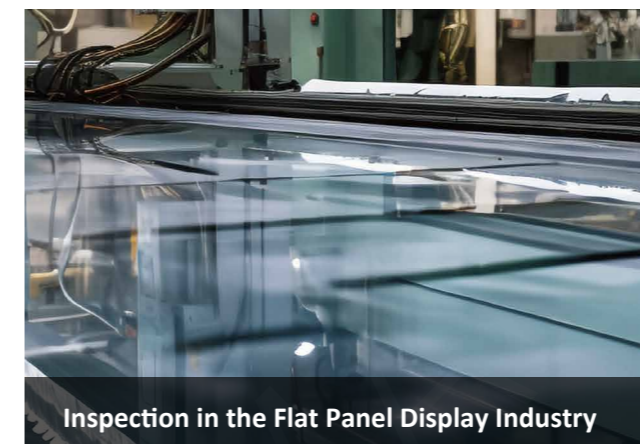
After Optimization



Inspection in the Semiconductor Industry



Inspection in the Battery Cell Industry



Inspection in the Flat Panel Display Industry



Inspection in the EV Battery Industry

Specifications

AX Series				
Model	AX5B51M/CG051E	AX7C10M/CG250E	AX5E07M/CG250E	AX5F57M/CG250E
Sensor	PYTHON 25K	IMX342	Customized	GMAX3265
Image Sensor	23.0 mm × 23.0 mm CMOS	22.3 mm × 16.7 mm CMOS	29.0 mm × 16.0 mm CMOS	29.9 mm × 22.4 mm CMOS
Shutter	Global	Global	Global	Global
Resolution	5120 × 5120	6464 × 4852	9344 × 5000	9344 × 7000
Frame Rate	4 fps	3.6 fps	2.6 fps	1.7 fps
Bit Depth	10 bit	12 bit	12 bit	12 bit
Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono/Color
Pixel Size	4.5 μm × 4.5 μm	3.45 μm × 3.45 μm	3.2 μm × 3.2 μm	3.2 μm × 3.2 μm
S/N Ratio	41 dB	40 dB	40 dB	40 dB
WDR	58 dB	73 dB	66 dB	66 dB
ROI	Support	Support	Support	Support
X Flip	Support	Support	Support	Support
Y Flip	Support	Support	Support	Support
Gain	1 – 32	1 – 32	1 – 32	1 – 32
Gamma	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT
Exposure Time	35 μs – 1 s	3 μs – 15 s	16 μs – 15 s	16 μs – 15 s
Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode
SPC	Support	Support	Support	Support
FFC	Support	Support	Support	Support
Image Buffer	256 MB	256 MB/512MB	512MB	512 MB
Interface	GigE	GigE	GigE	GigE
Lens Mount	M58 × 0.75	M58 × 0.75	M58 × 0.75	M58 × 0.75
Power Consumption	24 V ≈ 9 W	24 V ≈ 7.86 W	24 V ≈ 8.4 W	24 V ≈ 8.4 W
Appearance Dimension Diagram	A	B	C	C
Connector Pin-out	a	a	a	a

Specifications

AX Series							
Model	AX7A20M/CT250E	AX5B57M/CT200E	AX5B57M/CT250E	AX5B51M/CT250E	AX5E07M/CT250E	AX5F57M/CT250E	AX5K37MT250E
Sensor	IMX253	GMAX0505	GMAX0505	PYTHON 25K	PCustomized	GMAX3265	GMAX32103
Image Sensor	1.1" CMOS	1.1" CMOS	1.1" CMOS	23.0 mm × 23.0 mm CMOS	29.9 mm × 22.4 mm CMOS	29.9mm × 22.4mm CMOS	36.1 mm × 29.4 mm CMOS
Shutter	Global	Global	Global	Global	Global	Global	Global
Resolution	4096 × 3000	5120 × 5120	5120 × 5120	5120 × 5120	7008 × 7000	9344 × 7000	11264 × 9200
Frame Rate	68 fps	41 fps	41 fps	43 fps	17.4 fps	17.4 fps	11.25 fps
Bit Depth	10 bit	12 bit	12 bit	10 bit	12 bit	12 bit	12 bit
Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono
Pixel Size	3.45 μm × 3.45 μm	2.5 μm × 2.5 μm	2.5 μm × 2.5 μm	4.5 μm × 4.5 μm	3.2 μm × 3.2 μm	3.2 μm × 3.2 μm	3.2 μm × 3.2 μm
S/N Ratio	39 dB	40 dB	40 dB	41 dB	40 dB	40 dB	40 dB
WDR	71.6 dB	63 dB	63 dB	58 dB	66 dB	66 dB	66.4 dB
ROI	Support	Support	Support	Support	Support	Support	Support
X Flip	Support	Support	Support	Support	Support	Support	Support
Y Flip	Support	Support	Support	Support	Support	Support	Support
Gain	1 – 32	1 – 32	1 – 32	1 – 32	1 – 32	1 – 32	1 – 32
Gamma	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT
Exposure Time	1 μs – 15 s	8 μs – 15 s	8 μs – 15 s	35 μs – 15 s	16 μs – 15 s	16 μs – 15 s	20 μs – 15 s
Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode						
SPC	Support	Support	Support	Support	Support	Support	Support
FFC	Support	Support	Support	Support	Support	Support	Support
Image Buffer	1 GB	1GB	1 GB	1GB	1GB	1GB	1GB
Interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Lens Mount	M58 x 0.75	C	M58 × 0.75	M58 x 0.75	M58 x 0.75	M58 x 0.75	M58 x 0.75
Power Consumption	24 V ≈ 18.7 W	24 V ≈ 19.4 W	24 V ≈ 19.4 W	24 V ≈ 21.6 W	24 V ≈ 20.16 W	24 V ≈ 20.16 W	24 V ≈ 20 W
Appearance Dimension Diagram	D	F	E	G	H	I	J
Connector Pin-out	a	a	a	a	a	a	a

Specifications

AX Series				
Model	AX7C10M/CK250E	AX5E07M/CK250E	AX5F57M/CK250E	AX7Q00MK470E
Sensor	IMX342	Customization	GMAX3265	IMX411
Image Sensor	22.3 mm x 16.7 mm CMOS	29.9 mm x 16.0 mm CMOS	29.9 mm x 22.4 mm CMOS	53.4 mm x 40.0 mm CMOS
Shutter	Global	Global	Global	Rolling
Resolution	6240 x 4848	9280 x 4992	9280 x 6992	14160 x 10640
Frame Rate	24.8 fps	17.5 fps	12.5 fps	5.1 fps
Bit Depth	10 bit	12 bit	12 bit	12 bit
Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono
Pixel Size	3.45 μm x 3.45 μm	3.2 μm x 3.2 μm	3.2 μm x 3.2 μm	3.76 μm x 3.76 μm
S/N Ratio	40 dB	40 dB	40 dB	45 dB
WDR	73 dB	66 dB	66 dB	90 dB
ROI	Support	Support	Support	Support
X Flip	Support	N/A / Support	N/A / Support	Support
Y Flip	Support	Support	Support	Support
Gain	1 – 32	1 – 32	1 – 32	1 – 32
Gamma	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT	0 – 4, support LUT
Exposure Time	3 μs – 15 s	16 μs – 15 s	16 μs – 15 s	3 μs – 15 s
Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode
SPC	Support	Support	Support	Support
FFC	Support	Support	Support	Support
Image Buffer	N/A	N/A	N/A	N/A
Interface	Camera Link	Camera Link	Camera Link	Camera Link
Lens Mount	M58 x 0.75	M58 x 0.75	M58 x 0.75	M72 x 0.75
Power Consumption	24 V ≈ 16.8 W	24 V ≈ 6.83 W	24 V ≈ 6.83 W	24 V ≈ 18 W
Connector	2 x SDR	2 x SDR	2 x SDR	2 x SDR
Appearance Dimension Diagram	K	L	L	M
Connector Pin-out	a	a	a	a

Specifications

AX Series					
Model	A9507MX703E	A9907MX703E	A9A27M/CX703E	A9A87M/CX703E	A9B57M/CX703E
Sensor	GMAX2505	GMAX2509	Customized	GMAX2518	GMAX0505
Image Sensor	6.5 mm x 5.4 mm CMOS	10.5 mm x 5.4 mm CMOS	11.27 mm x 10.24 mm CMOS	11.27 mm x 10.24 mm CMOS	1.1" CMOS
Shutter	Global	Global	Global	Global	Global
Resolution	2592 x 2160	4192 x 2160	4096 x 3072	4496 x 4096	5120 x 5120
Frame Rate	210 fps	120 fps	85 fps	64 fps	42 fps/41.8 fps
Bit Depth	12 bit	12 bit	12 bit	12 bit	12 bit
Mono/Color	Mono	Mono	Mono/Color	Mono/Color	Mono/Color
Pixel Size	2.5 μm x 2.5 μm	2.5 μm x 2.5 μm	2.5 μm x 2.5 μm	2.5 μm x 2.5 μm	2.5 μm x 2.5 μm
S/N Ratio	36 dB	36 dB	37.7 dB	37.7 dB	36 dB
WDR	62dB	62dB	66.9 dB	66.9 dB	63dB
ROI	Support	Support	Support	Support	Support
X Flip	Support	Support	Support	Support	Support
Y Flip	Support	Support	Support	Support	Support
Gain	Analog gain: 1x – 2x, Digital gain: 1x – 100x	Analog gain: 1x – 2x, Digital gain: 1x – 100x	Analog gain: 1x – 2x, Digital gain: 1x – 100x	Analog Gain: 1x – 2x, Digital Gain: 1x – 100x	Analog Gain: 1x – 2x, Digital Gain: 1x – 100x
Exposure Time	2 μs – 5 s	2 μs – 5 s	8 μs – 5 s	8 μs – 5 s	25 μs – 5 s
Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode
SPC	Support	Support	Support	Support	Support
LSC	Support	Support	Support	Support	Support
Image Buffer	N/A	N/A	N/A	N/A	N/A
Interface	CXP-6	CXP-6	CXP-6	CXP-6	CXP-6
Lens Mount	C	C	C	C	C
Power Consumption	24 V ≈ 6.4 W	24 V ≈ 6.9 W	24 V ≈ 7.8 W	24 V ≈ 8 W	24 V ≈ 7.8 W/24 V ≈ 7.3 W
Connector	2 x Din	2 x Din	2 x Din	2 x Din	2 x Din
Appearance Dimension Diagram	N	N	O	O	S
Connector Pin-out	b	b	b	b	b

Specifications

AX Series					
Model	AX5A22M/CX340E	AX5A22M/CX050E	AX5A22M/CX060E	A9B57M/CX200E	A9B57M/CX250E
Sensor	CMV12000	CMV12000	CMV12000	GMAX0505	GMAX0505
Image Sensor	22.5 mm × 16.9 mm CMOS	22.5 mm × 16.9 mm CMOS	22.5 mm × 16.9 mm CMOS	1.1"CMOS	1.1"CMOS
Shutter	Global	Global	Global	Global	Global
Resolution	4096 × 3072	4096 × 3072	4096 × 3072	5120 × 5120	5120 × 5120
Frame Rate	188 fps	188 fps	188 fps	90 fps	90 fps
Bit Depth	10 bit	10 bit	10 bit	10 bit	10 bit
Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono/Color	Mono/Color
Pixel Size	5.5 μm × 5.5 μm	5.5 μm × 5.5 μm	5.5 μm × 5.5 μm	2.5 μm × 2.5 μm	2.5 μm × 2.5 μm
S/N Ratio	41.3dB	41.3dB	41.3dB	36 dB	36 dB
WDR	60dB	60 dB	60 dB	63dB	63dB
ROI	Support	Support	Support	Support	Support
X Flip	Support	Support	Support	Support	Support
Y Flip	Support	Support	Support	Support	Support
Gain	1 – 100	1 – 100	1 – 100	1 – 100	1 – 100
Exposure Time	50 μs – 5 s	50 μs – 5 s	50 μs – 5 s	25 μs – 5 s	25 μs – 5 s
Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode
SPC	Support	Support	Support	Support	Support
FFC	Support	Support	Support	Support	Support
Image Buffer	N/A	N/A	N/A	N/A	N/A
Interface	CXP-6	CXP-6	CXP-6	CXP-6	CXP-6
Lens Mount	M42	M58 x 0.75	F	C	M58 x 0.75
Power Consumption	24 V ≈ 15 W	24 V ≈ 15 W	24 V ≈ 15 W	24 V ≈ 13 W	24 V ≈ 13 W
Connector	4 x Din	4 x Din	4 x Din	4 x Din	4 x Din
Appearance Dimension Diagram	R	P	Q	T	U
Connector Pin-out	c	c	c	a	a

Specifications

AX Series				
Model	AX5E07CX250E	AX5F57M/CX250E	AX7Q10M/CX470E	AX7Q10M/CX770E
Sensor	Customize	GMAX3265	IMX411	IMX411
Image Sensor	29.9 mm × 16.0 mm CMOS	29.9 mm × 22.4 mm CMOS	53.4 mm × 40.0 mm CMOS	53.4 mm × 40.0 mm CMOS
Shutter	Global	Global	Rolling	Rolling
Resolution	9344 × 5000	9344 × 7000	14192 × 10640	14192 × 10640
Frame Rate	44 fps	31 fps	6.1 fps	6.1 fps
Bit Depth	12 bit	12 bit	12 bit	12 bit
Mono/Color	Color	Mono/Color	Mono/Color	Mono/Color
Pixel Size	3.2 μm × 3.2 μm	3.2 μm × 3.2 μm	3.76 μm × 3.76 μm	3.76 μm × 3.76 μm
S/N Ratio	40 dB	40 dB	45 dB	45 dB
WDR	66 dB	66 dB	90dB	78 dB
ROI	Support	Support	Support	Support
X Flip	Support	Support	Support	Support
Y Flip	Support	Support	Support	Support
Gain	Analog gain: 1x – 4.8x, Digital gain: 1x – 100x	Analog gain: 1x – 4.8x, Digital gain: 1x – 100x	Analog gain: 1x – 63x, Digital gain: 1x – 100x	Analog gain: 1x – 63x, Digital gain: 1x – 100x
Exposure Time	27 μs – 5 s	27 μs – 5 s	30 μs – 5 s	30 μs – 5 s
Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode	Software Trigger/Hardware Trigger/Free Run Mode
SPC	Support	Support	Support	Support
FFC	Support	Support	Support	Support
Image Buffer	N/A	N/A	N/A	N/A
Interface	CXP-6	CXP-6	CXP-6	CXP-6
Lens Mount	M58 × 0.75	M58 x 0.75	M72 x 0.75	M72 x 0.75
Power Consumption	24 V ≈ 21.6 W	24 V ≈ 21.6 W	24 V ≈ 18 W	24 V ≈ 51.6 W
TEC	N/A	N/A	N/A	Support
Connector	4 x Din	4 x Din	4 x Din	4 x Din
Appearance Dimension Diagram	V	V	Y	X
Connector Pin-out	a	a	a	a

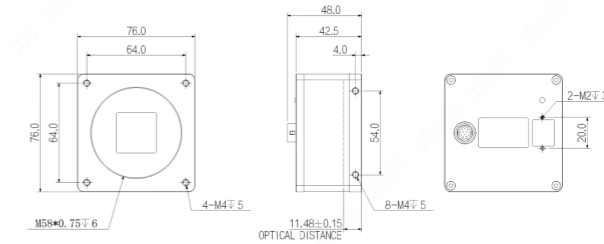
Specifications

AX Series					
Model	AX5A22M/CP050E	AX5B17M/CP050E	A9B57MP340E	A9B57M/CP050E	AX5F57M/CP050E
Sensor	CMV12000	GSPRINT4521	GMAX0505	GMAX0505	GMAX3265
Image Sensor	22.5 mm x 16.9 mm CMOS	23.0 mm x 18.4 mm CMOS	1.1" CMOS	1.1" CMOS	29.9 mm x 22.4 mm CMOS
Shutter	Global	Global	Global	Global	Global
Resolution	4096 x 3072	5120 x 4096	5120 x 5120	5120 x 5120	9344 x 7000
Frame Rate	330 fps	219 fps/227 fps	150 fps	150 fps	71 fps
Bit Depth	12 bit	12 bit	10 bit	10 bit	10 bit
Mono/Color	Mono/Color	Mono/Color	Mono	Mono/Color	Mono/Color
Pixel Size	5.5 μm x 5.5 μm	4.5 μm x 4.5 μm	2.5 μm x 2.5 μm	2.5 μm x 2.5 μm	3.2 μm x 3.2 μm
S/N Ratio	41.3 dB	44 dB	36 dB	36 dB	40 dB
WDR	60 dB	69 dB	63 dB	63 dB	66 dB
ROI	Support	Support	Support	Support	Support
X Flip	Support	N/A	Support	Support	Support
Y Flip	Support	Support	Support	Support	Support
Gain	Analog gain: 1x – 4x, Digital gain: 1x – 100x	Analog gain: 1x – 8x, Digital gain: 1x – 100x	1–100	1–100	Analog gain: 1x – 4.8x, Digital gain: 1x – 100x
Exposure Time	50 μs – 5 s	4 μs – 5 s	15 μs – 5 s	15 μs – 5 s	27 μs – 5 s
Trigger Mode	Software Trigger/ Hardware Trigger/Free Run Mode	Software Trigger/ Hardware Trigger/Free Run Mode	Software Trigger/ Hardware Trigger/Free Run Mode	Software Trigger/ Hardware Trigger/Free Run Mode	Software Trigger/ Hardware Trigger/Free Run Mode
SPC	Support	Support	Support	Support	Support
FFC	Support	Support	Support	Support	Support
Image Buffer	N/A	N/A	N/A	N/A	N/A
Port	CXP-12	CXP-12	CXP-12	CXP-12	CXP-12
Lens Mount	M58 x 0.75	M58 x 0.75	M42x1	M58 x 0.75	M58 x 0.75
Power Consumption	24 V ≈ 24 W	24 V ≈ 21.6 W	24 V ≈ 19.4 W	24 V ≈ 19.4 W	24 V ≈ 24 W
Connector	4 x HD-BNC	4 x HD-BNC	4 x HD-BNC	4 x HD-BNC	4 x HD-BNC
Appearance Dimension Diagram	Z	AA	AB	W	AC
Connector Pin-out	a	a	a	a	a

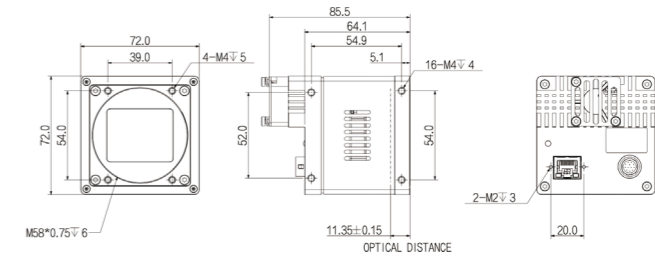
2D Drawing



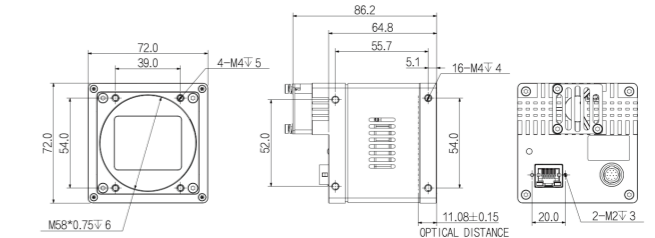
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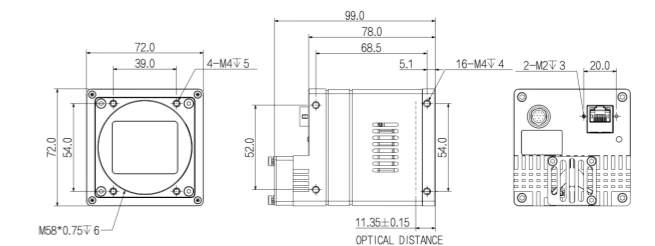
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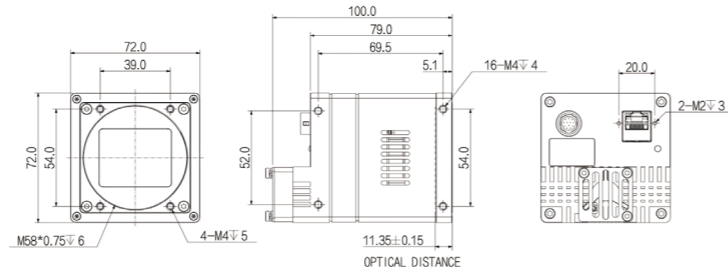
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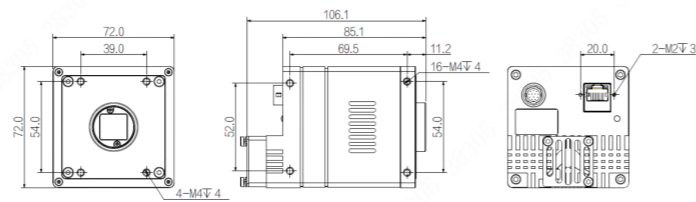
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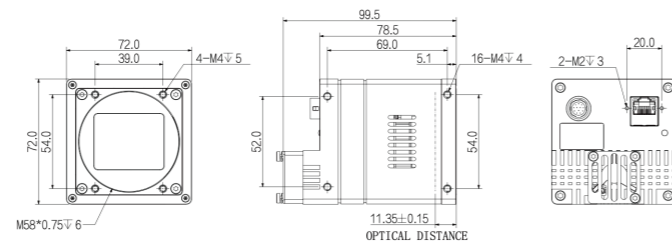
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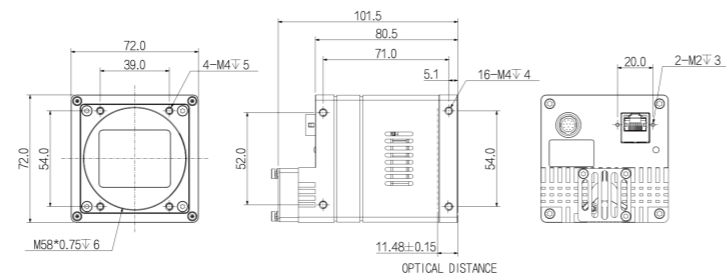
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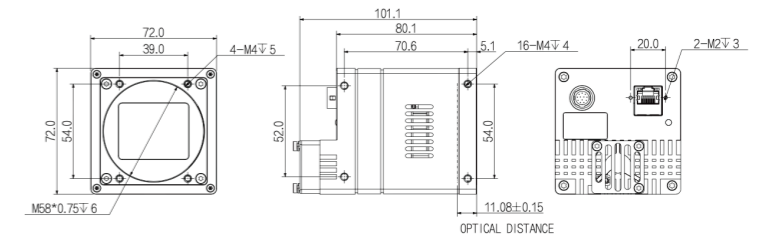
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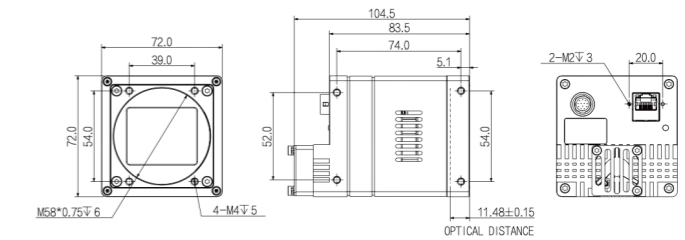
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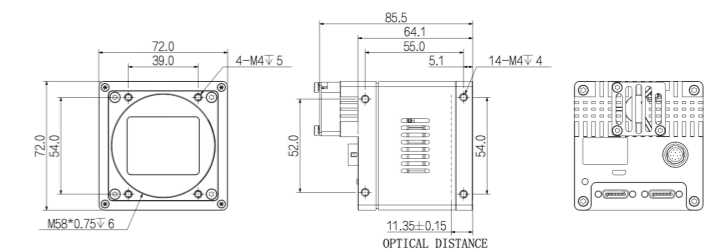
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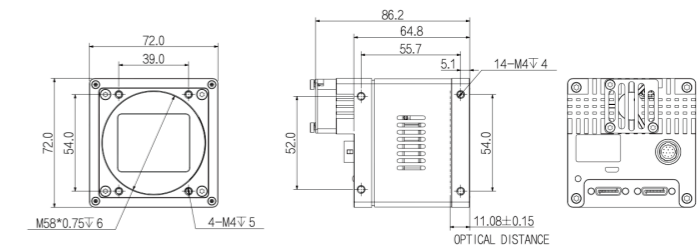
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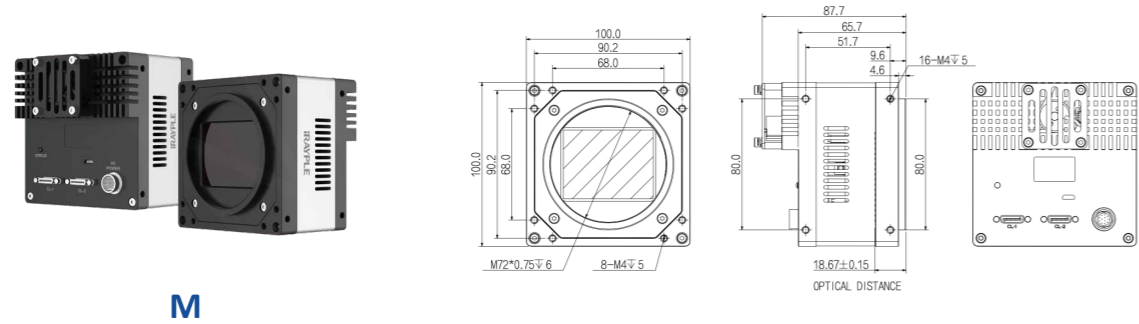
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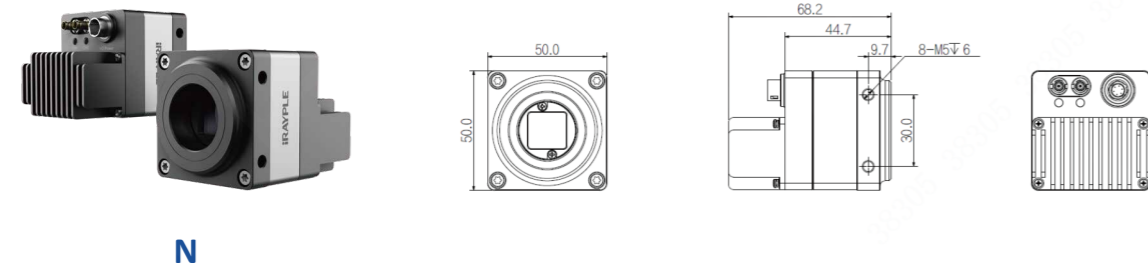
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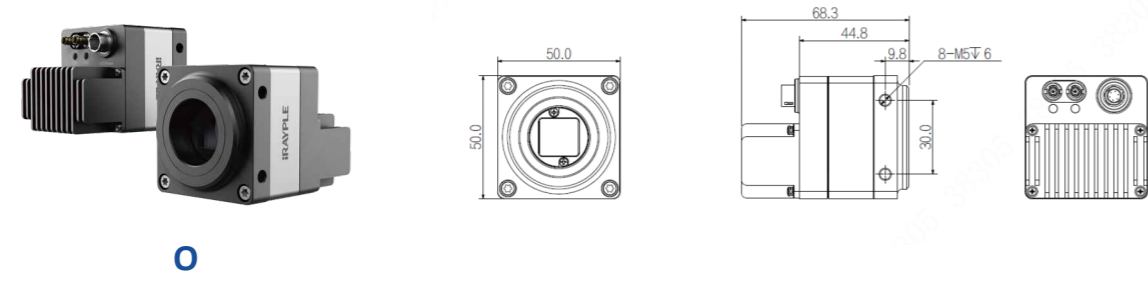
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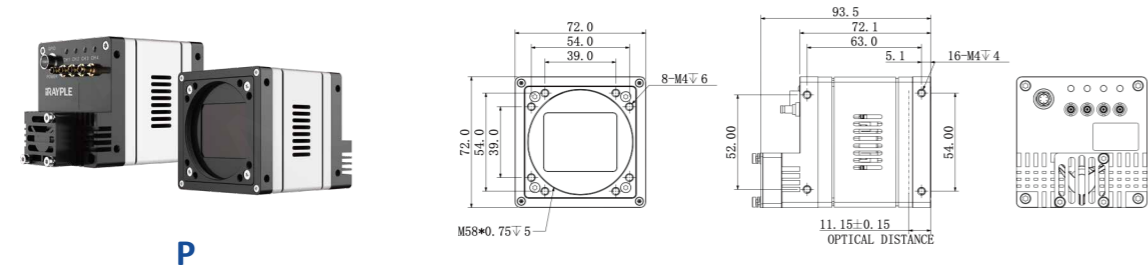
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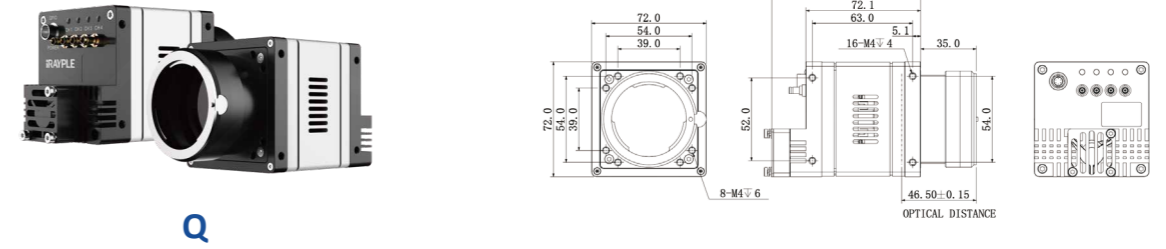


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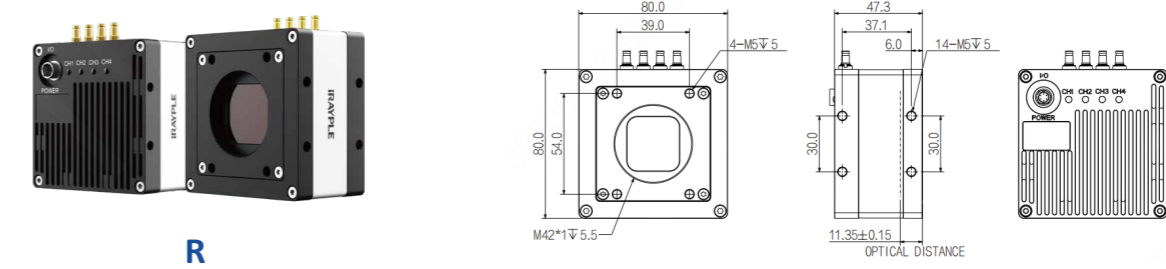


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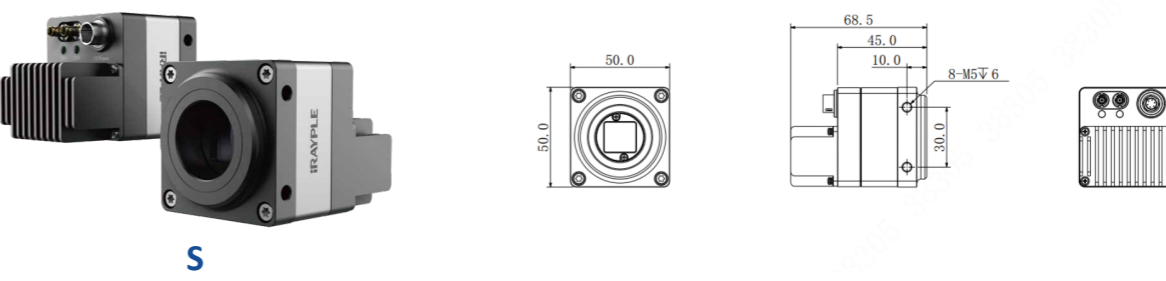
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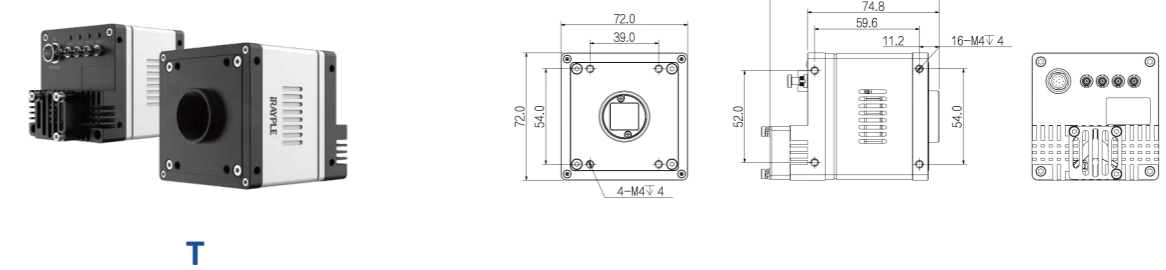
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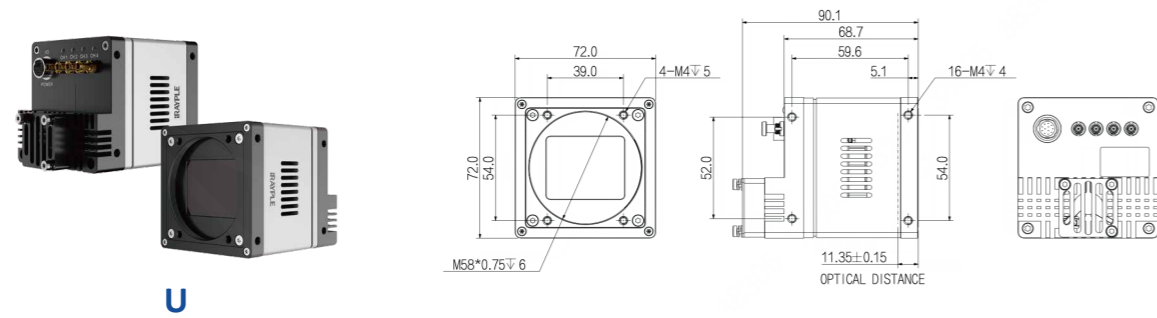


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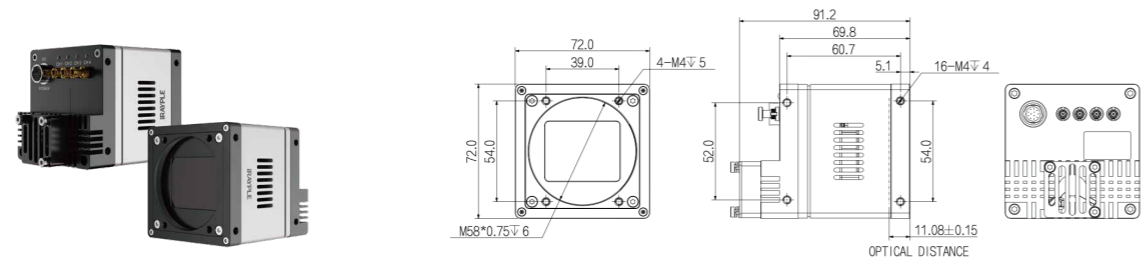


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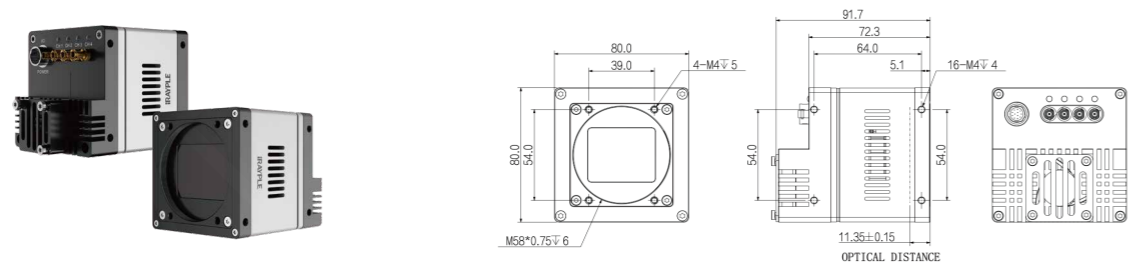
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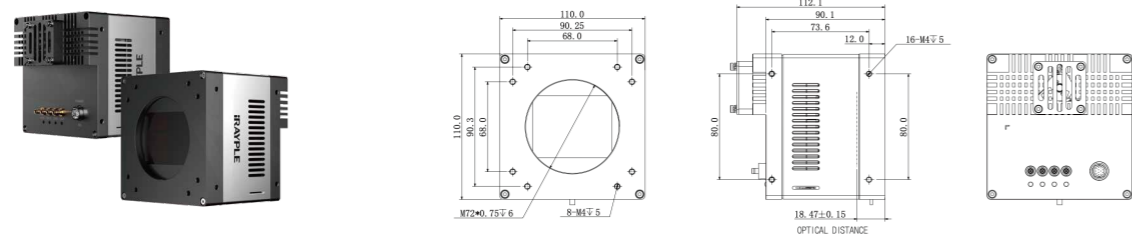
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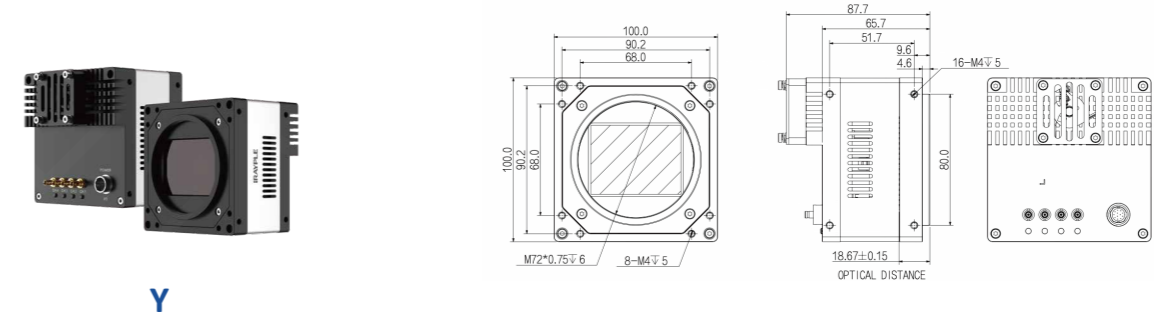


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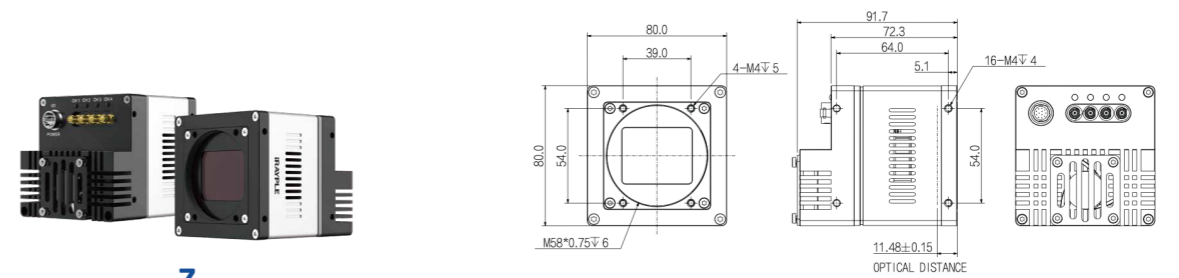


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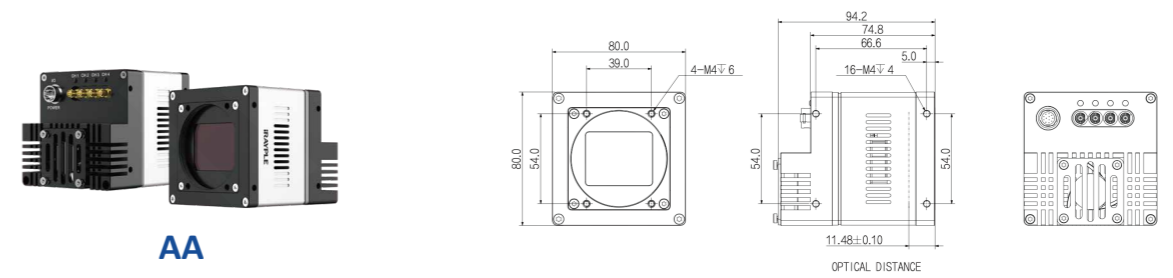
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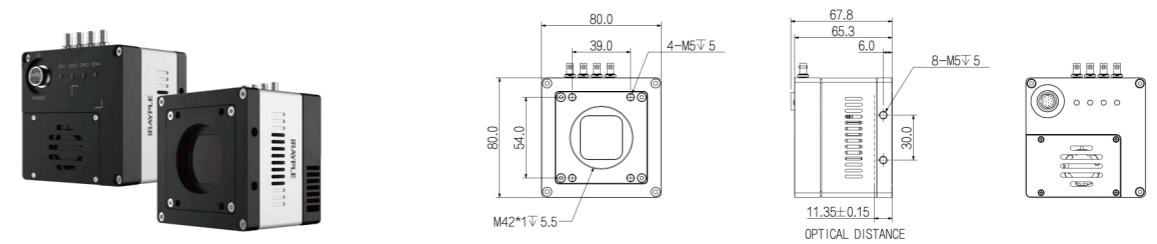
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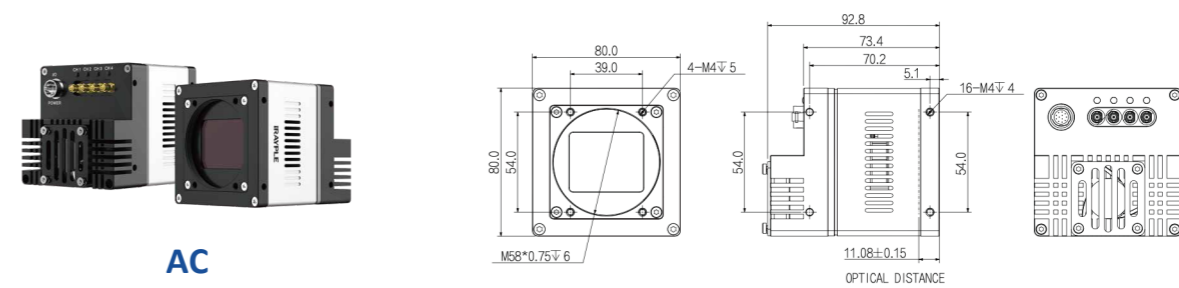
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AA

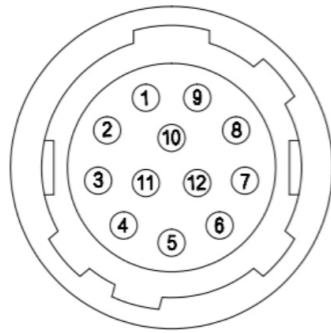


AB



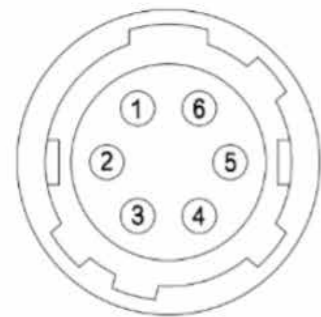
AC

Connector Pin-out



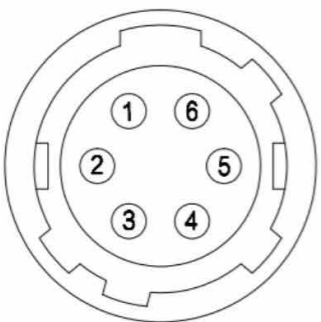
Pin	Signal	Description
1	GND	Power and signal GND
2	Power	Power supply
3	RXD RS232	Serial receive
4	TXD RS232	Serial send
5	Line3	Opto-isolated input
6	Line4	Opto-isolated input
7	Line5	Opto-isolated input
8	OPT_IN_GND	Opto-isolated input GND
9	Line0	Opto-isolated output
10	Line1	Opto-isolated output
11	Line2	Opto-isolated output
12	OPT_OUT_GND	Opto-isolated output GND

a



Pin	Description	Features
1	-	+10VDC to 24VDC power supply
2	LINE1	Opto-isolated input
3	LINE2	GPIO (I/O can be configured for non-isolated software)
4	LINE0	Opto-isolated output
5	-	Opto-isolated signal ground (ISO_GND)
6	-	Camera DC power ground and GPIO signal ground (GND)

b



Pin	Signal	Description
1	Power	Power supply
2	Line0	Dual-direction configurable non-isolated I/O
3	Line1	Dual-direction configurable non-isolated I/O
4	Line2	Dual-direction configurable non-isolated I/O
5	Signal_GND	Signal GND
6	GND	Power GND

c

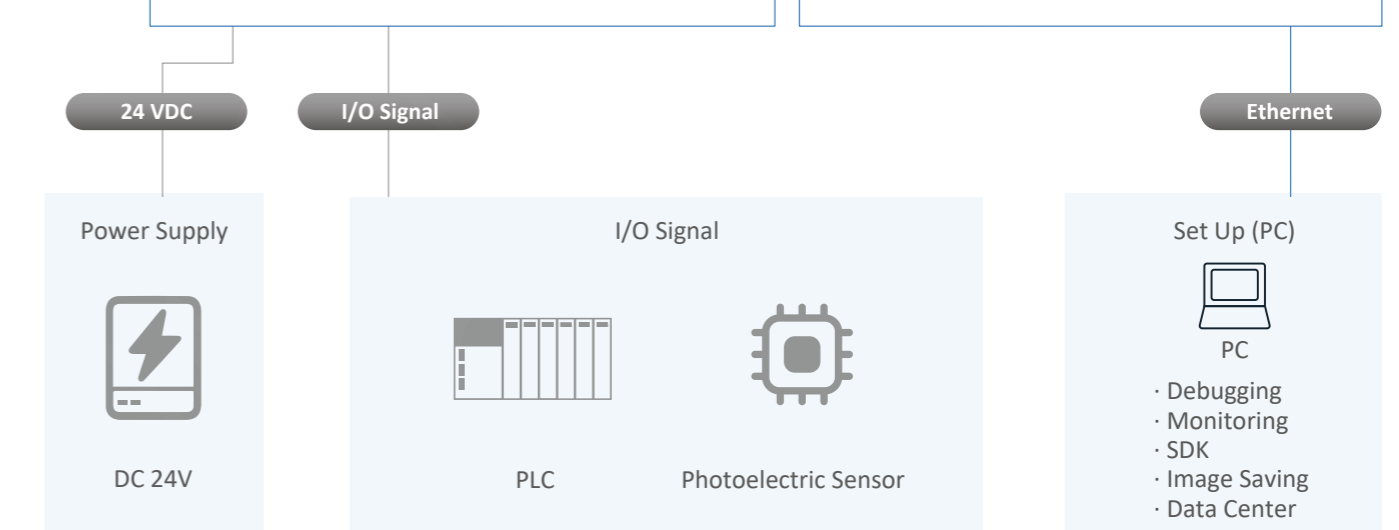
System Components

Compatible Models



Cables

	Power and GPIO Cable		Ethernet Cable	
	Static	Flexible	Static	Flexible
5m	C01-IO-12PIN-DC-5M	C03-IO-12PIN-DC-FC-5M	C01-GE-RJ45-RJ45-5M	C03-GE-RJ45-RJ45-FC-5M
10m	C01-IO-12PIN-DC-10M	C02-IO-12PIN-DC-FC-10M	C01-GE-RJ45-RJ45-10M	C03-GE-RJ45-RJ45-FC-10M



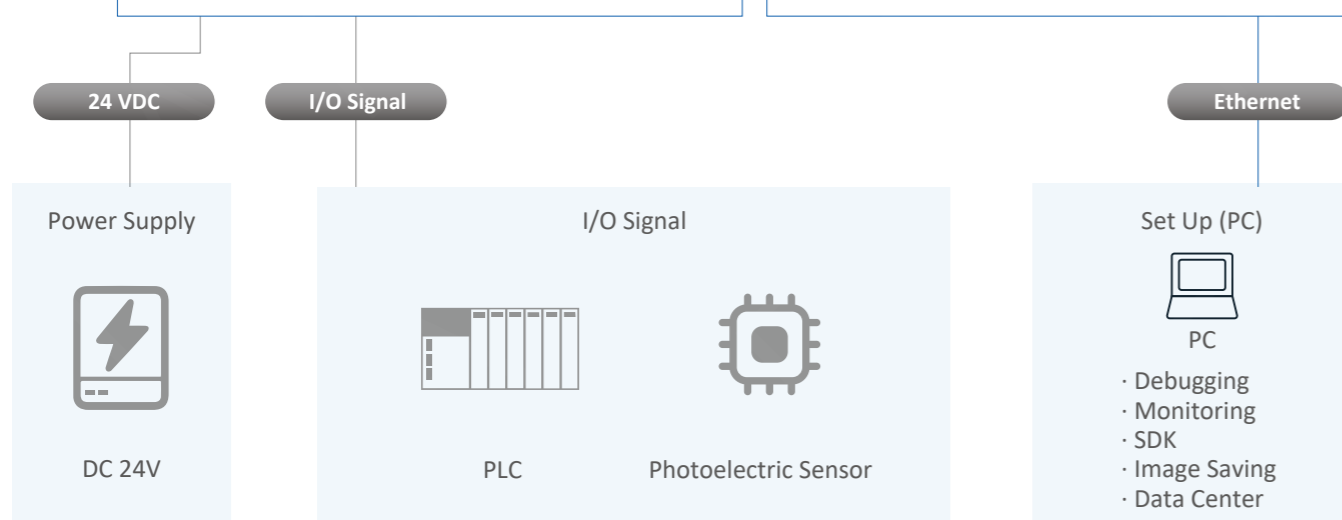
System Components

Compatible Models



Cables

	Power and GPIO Cable		Ethernet Cable	
	Static	Flexible	Static	Flexible
5m	C01-IO-12PIN-DC-5M	C03-IO-12PIN-DC-FC-5M	C01-10GE-RJ45-RJ45-5M	C01-10GE-RJ45-RJ45-FC-5M
10m	C01-IO-12PIN-DC-10M	C02-IO-12PIN-DC-FC-10M	C01-10GE-RJ45-RJ45-10M	C01-10GE-RJ45-RJ45-FC-10M



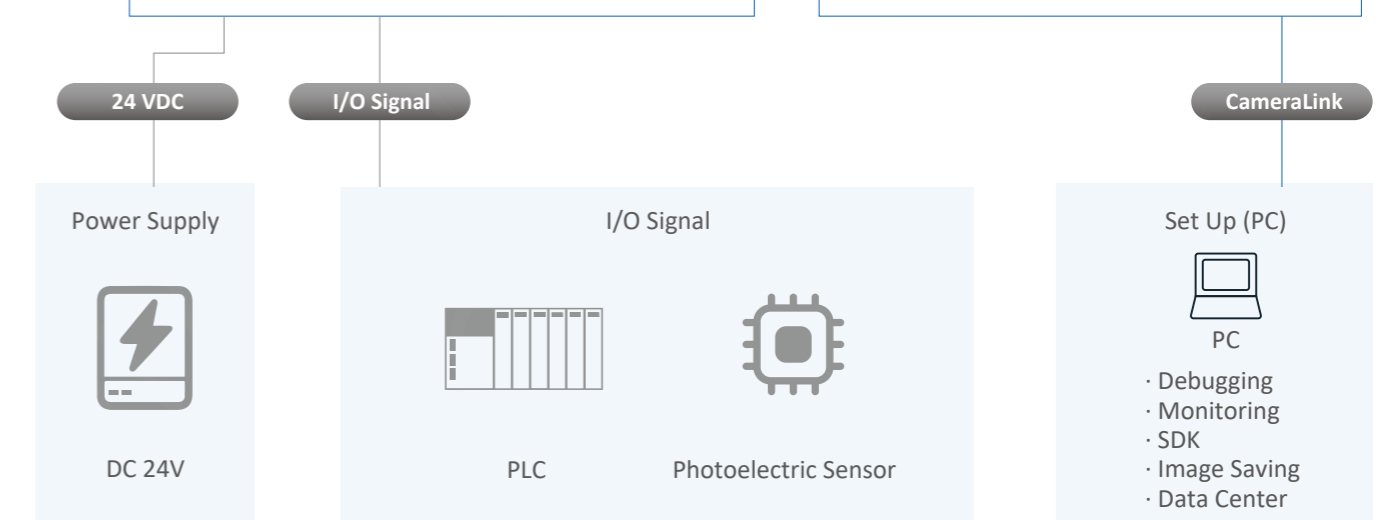
System Components

Compatible Models



Cables

	Power Cable			GPIO Cable
	Static	Flexible		Flexible
5m	C01-IO-12PIN-DC-5M	C03-IO-12PIN-DC-FC-5M	3m	C03-CL-SDR-SDR-PoCL-FC-3M
10m	C01-IO-12PIN-DC-10M	C02-IO-12PIN-DC-FC-10M	7m	C03-CL-SDR-SDR-PoCL-FC-7M



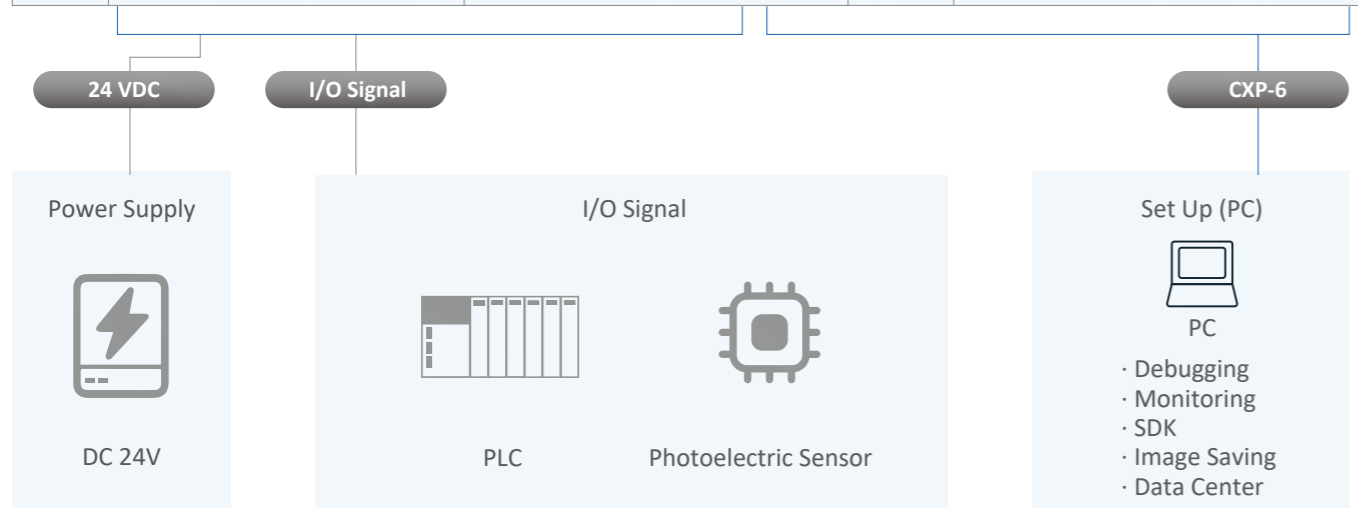
System Components

Compatible Models



Cables

	Power Cable			GPIO Cable
	Static	Flexible		Flexible
5m	C02-IO-6PIN-DC-5M-LC	C02-IO-6PIN-DC-FC-5M	5m	C03-CXP6-DIN-DIN-FC-5M
10m	C02-IO-6PIN-DC-10M-LC	C02-IO-6PIN-DC-FC-10M	10m	C03-CXP6-DIN-DIN-FC-10M



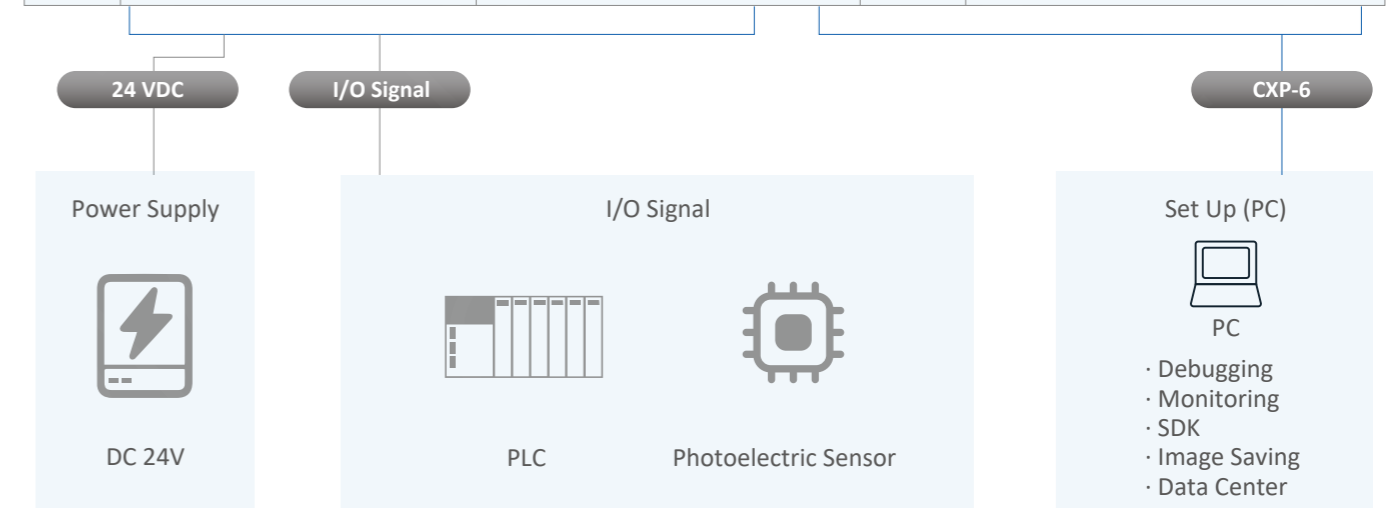
System Components

Compatible Models



Cables

	Power Cable			GPIO Cable
	Static	Flexible		Flexible
5m	C01-IO-12PIN-DC-5M	C03-IO-12PIN-DC-FC-5M	5m	C03-CXP6-DIN-DIN-FC-5M
10m	C01-IO-12PIN-DC-10M	C02-IO-12PIN-DC-FC-10M	10m	C03-CXP6-DIN-DIN-FC-10M



System Components

Compatible Device Models



Cables

