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Vision for Imagination
MACHINE VISION PRODUCT CATALOG

■CONTENTS

Product Description

Area Scan Camera

Line Scan Camera

Board Level Camera

Industrial Infrared Camera ------------------- 36

Smart Camera

Smart Code Reader

3D Camera

Vision Controller

Frame Grabber ------------------------------ 78

Lens

Lighting

Cable

Industrial Camera Client and
Software Development Kit ------------------- 120

VM Algorithm Development Platform --------- 121

CodePlatform ----------------------------- 125
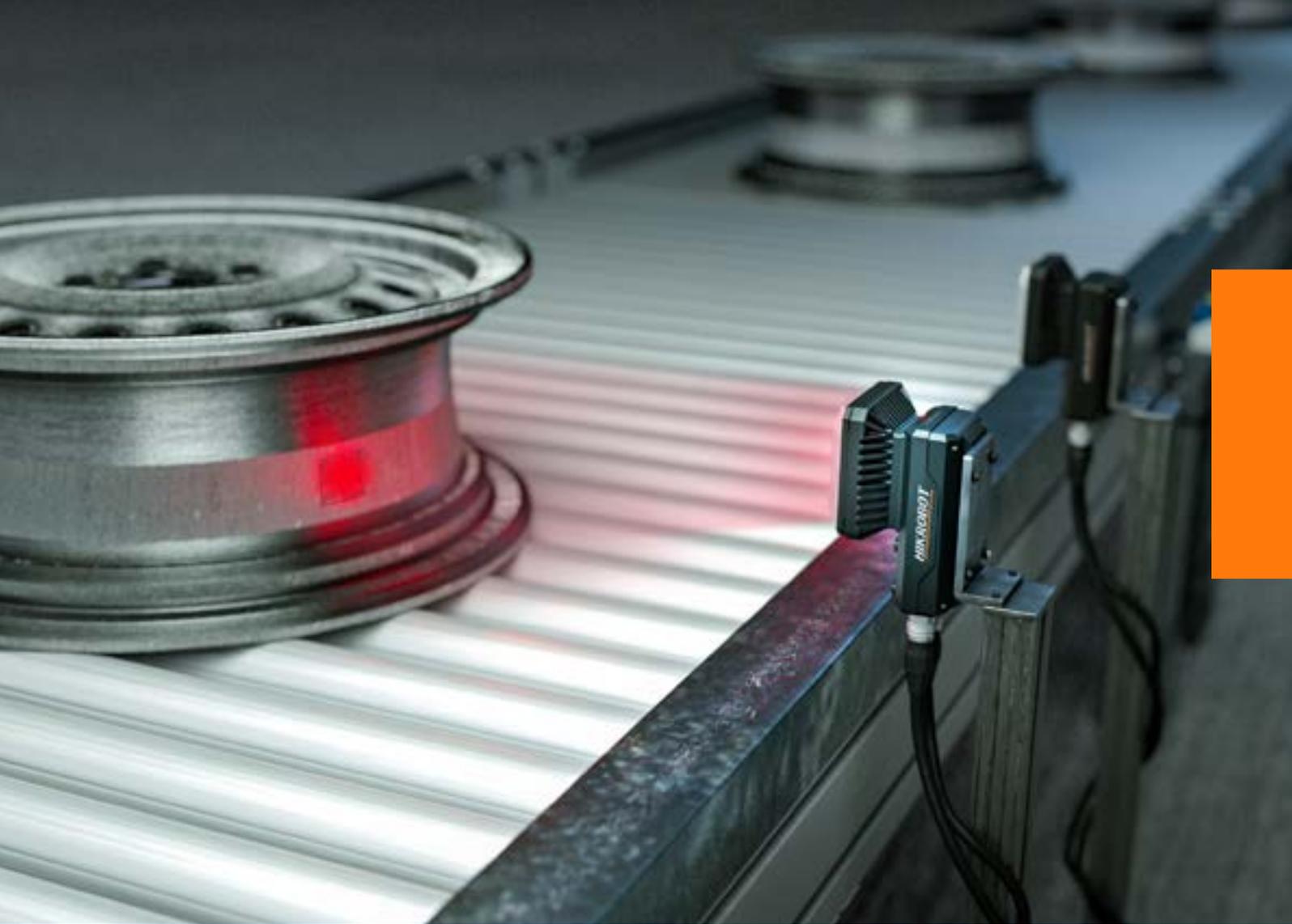
Hangzhou Hikrobot Co., Ltd.

Hikrobot is a global product and solution supplier specialized in machine vision and mobile robot. Focusing on IIoT, smart logistics and smart manufacturing, we build open cooperation ecosystem, provide service to industry and logistics customers, and commit to continuously promoting the intelligentization and leading the intelligent manufacturing process.

Machine Vision

With efforts in industrial vision sensing application and hardware technology, the company provides customers with leading machine vision products. The products cover industrial camera, lens, vision box, industrial smart camera and related accessory.

Through rigorous EMC, safety and reliability tests, Hikrobot guarantees the high precision, high efficiency and high environmental performance of each product. The machine vision products are widely used in industrial automation sectors such as consumer electronics, semiconductors and logistics, as a part of the vision applications like positioning guidance, measurement, quality inspection, code reading, OCR, etc. They help users to greatly improve productivity, accuracy and stability.

Area Scan Camera

■ CS Series GigE Area Scan Camera

Key Features
- Second-generation industrial camera, excellent power consumption design.
- A new generation of appearance structure design, support four-sided installation, higher installation accuracy.
- PRO version is embedded with rich functions such as lossless compression, noise reduction, super palette, etc.
- GigE interface, with maximum transmission distance up to 100m (without relay).
- Compatible with GigE Vision V2.0 protocol and GenICam standard ,and the third-party software.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CS004-10GM	IMX297	CMOS	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	10
MV-CS004-10GC	IMX297	CMOS	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	10
MV-CS004-11GM	IMX287	CMOS	1/2.9"	6.9 μm	Global	720 × 540	312.9 fps	12
MV-CS004-11GC	IMX287	CMOS	1/2.9"	6.9 μm	Global	720 × 540	312.9 fps	12
MV-CS016-10GM	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CS016-10GC	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CS017-10GM *	IMX432	CMOS	1.1"	9 μm	Global	1608 × 1104	68.5 fps	12
MV-CS017-10GC *	IMX432	CMOS	1.1"	9 μm	Global	1608 × 1104	68.5 fps	12
MV-CS020-10GM	IMX430	CMOS	1/1.7"	4.5 μm	Global	1624 × 1240	60 fps	12
MV-CS020-10GC	IMX430	CMOS	1/1.7"	4.5 μm	Global	1624 × 1240	60 fps	12
MV-CS020-11GM	Sony	CMOS	1/1.7"	4.5 μm	Global	1624 × 1240	39.9 fps	12
MV-CS020-21GM	OnSemi	CMOS	2/3"	4.5 μm	Global	1920 × 1200	51.3 fps	12
MV-CS023-10GM *	IMX249	CMOS	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	12
MV-CS023-10GC *	IMX249	CMOS	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	12
MV-CS032-10GM *	IMX265	CMOS	1/1.8"	3.45 μm	Global	2048 × 1536	37.5 fps	12

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Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.2 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.5 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	NE: 1 µs ~10 sec	GigE	9~24 VDC,PoE	Typ. 2.2 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	NE: 1 µs ~10 sec	GigE	9~24 VDC,PoE	Typ. 2.4 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.4 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.5 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE:1 µs~5 µs NE:6 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 3.36 W@12 VDC	C	-30~60°C	44 mm × 29 mm × 59 mm
Color	USE:1 µs~5 µs NE:6 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 3.84 W@12 VDC	C	-30~60°C	44 mm × 29 mm × 59 mm
Mono	USE:1 µs~5 µs NE:6 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.8 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	USE:1 µs~5 µs NE:6 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 3.0 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.4 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE: 9 µs~59 µs NE: 60 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.76 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	NE: 34 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.32 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	NE: 34 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.48 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE:1 µs~14 µs NE:15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.56 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CS032-10GC *	IMX265	CMOS	1/1.8"	3.45 µm	Global	2048 × 1536	37.5 fps	12
MV-CS050-10GM	IMX264	CMOS	2/3"	3.45 µm	Global	2448 × 2048	24.2 fps	12
MV-CS050-10GC	IMX264	CMOS	2/3"	3.45 µm	Global	2448 × 2048	24.2 fps	12
MV-CS050-10GM-PRO	IMX264	CMOS	2/3"	3.45 µm	Global	2448 × 2048	35.6 fps	12
MV-CS050-10GC-PRO	IMX264	CMOS	2/3"	3.45 µm	Global	2448 × 2048	35.6 fps	12
MV-CS050-20GM	XGS5000	CMOS	2/3"	3.2 µm	Global	2592 × 2048	22.7fps	12
MV-CS050-20GC	XGS5000	CMOS	2/3"	3.2 µm	Global	2592 × 2048	22.7fps	12
MV-CS060-10GM	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	19.1 fps	12
MV-CS060-10GC	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	19.1 fps	12
MV-CS060-10GM-PRO	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	30.7 fps	12
MV-CS060-10GC-PRO	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	30.7 fps	12
MV-CS200-10GM	IMX183	CMOS	1"	2.4 µm	Rolling	5472 × 3648	5.9 fps	10
MV-CS200-10GC	IMX183	CMOS	1"	2.4 µm	Rolling	5472 × 3648	5.9 fps	10

Notice:* will be released soon, please consult details with sales representative
USE:Ultra-short exposure mode
NE:Normal exposure mode

Dimension

Unit:mm

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Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension
Color	USE:1 μs~14 μs NE:15 μs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.8 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE: 1 μs~14 μs NE: 15 μs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	USE: 1 μs~14 μs NE: 15 μs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.9 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE: 1 μs~14 μs NE: 15 μs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	USE: 1 μs~14 μs NE: 15 μs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.9 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	USE: 23 μs~99 μs NE: 100 μs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.5 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	USE: 23 μs~99 μs NE: 100 μs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.7 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	NE: 25 μs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.4 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	NE: 25 μs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.5 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	NE: 25 μs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.4 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	NE: 25 μs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.5 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Mono	NE: 46 μs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.4 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm
Color	NE: 46 μs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.5 W@12 VDC	C	-30~60°C	29 mm × 29 mm × 42 mm

■ CS Series USB3.0 Area Scan Camera

Key Features

- Second-generation industrial camera, excellent power consumption design.
- A new generation of appearance structure design, support four-sided installation, higher installation accuracy.
- PRO version is embedded with rich functions such as lossless compression, noise reduction, super palette, etc.
- USB 3.0 interface, support USB power supply, body lock screw holes to improve installation stability.
- Compatible with USB3 Vision protocol and GenICam standard, and the third-party software.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CS004-10UM	IMX287	CMOS	1/2.9"	6.9 μm	Global	720 × 540	526.5 fps	8/12
MV-CS004-10UC	IMX287	CMOS	1/2.9"	6.9 μm	Global	720 × 540	526.5 fps	8/12
MV-CS016-10UM	IMX273	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	249.1 fps	8/12
MV-CS016-10UC	IMX273	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	249.1 fps	8/12
MV-CS020-10UM *	IMX430	CMOS	1/1.7"	4.5 μm	Global	1624 × 1240	89.1 fps	12
MV-CS020-10UC *	IMX430	CMOS	1/1.7"	4.5 μm	Global	1624 × 1240	89.1 fps	12
MV-CS023-10UM *	IMX249	CMOS	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	12
MV-CS023-10UC *	IMX249	CMOS	1/1.2"	5.86 μm	Global	1920 × 1200	40 fps	12
MV-CS028-10UM	IMX421	CMOS	2/3"	4.5 μm	Global	1936 × 1464	132.2 fps	8/12
MV-CS050-10UM	IMX264	CMOS	2/3"	3.45 μm	Global	2448 × 2048	60 fps	12
MV-CS050-10UC	IMX264	CMOS	2/3"	3.45 μm	Global	2448 × 2048	60 fps	12
MV-CS050-60UM	HK	CMOS	1/2.5"	2.2 μm	Rolling	2592 × 1944	44.7 fps	10
MV-CS060-10UM-PRO	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	59.6 fps	10
MV-CS060-10UC-PRO	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	59.6 fps	10
MV-CS200-10UM	IMX183	CMOS	1"	2.4 μm	Rolling	5472 × 3648	19.2 fps	10
MV-CS200-10UC	IMX183	CMOS	1"	2.4 μm	Rolling	5472 × 3648	19.2 fps	10

Notice: * will be released soon, please consult details with sales representative
USE: Ultra-short exposure mode
NE: Normal exposure mode

Dimension

Unit:mm

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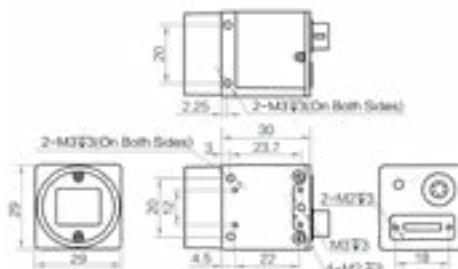
Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.4 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.6 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.0 W @5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.3 W @5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	NE: 1 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.56 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Color	NE: 1 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.12 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	NE: 34 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Color	NE: 34 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	USE: 1 µs ~ 5 µs NE: 6 µs ~ 10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.8 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	USE:1 µs~14 µs NE:15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.8 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Color	USE:1 µs~14 µs NE:15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.8 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	NE: 8 us~1 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.6 W @5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	NE: 8 us~1 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.3 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Color	NE: 8 us~1 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.5 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Mono	NE: 28 µs ~ 0.7 sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.27 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm
Color	NE: 28 µs ~ 0.62sec	USB3.0	9~24 VDC,USB3.0	Typ. 2.27 W@5 VDC	C	-30~60°C	29 mm × 29 mm × 30 mm

■CU Series GigE Area Scan Camera

Key Features

- Low power consumption, stable performance, optional PoE power supply.
- Support software trigger, hardware trigger and free run.
- GigE interface, with maximum transmission distance up to 100m (without relay).
- Compatible with GigE Vision V2.0 protocol and GenICam standard ,and the third-party software.
- CE, FCC, RoHS, KC certification.
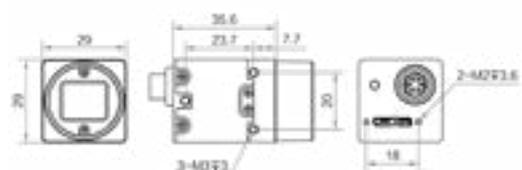
Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CU004-10GM	IMX297	CMOS	1/2.9"	6.9 μm	Global	720 × 540	126.5 fps	10
MV-CU004-10GC	IMX297	CMOS	1/2.9"	6.9 μm	Global	720 × 540	126.5 fps	10
MV-CU013-80GM	SS	CMOS	1/2.7"	4.0 μm	Global	1280 × 1024	89.9 fps	10
MV-CU013-80GC	SS	CMOS	1/2.7"	4.0 μm	Global	1280 × 1024	89.9 fps	10
MV-CU013-A0GM	HK	CMOS	1/2''	4.8 μm	Global	1280 × 1024	91.3 fps	10
MV-CU013-A0GC	HK	CMOS	1/2''	4.8 μm	Global	1280 × 1024	91.3 fps	10
MV-CU016-10GM	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.8 fps	10
MV-CU016-10GC	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.8 fps	10
MV-CU020-19GM	IMX290	CMOS	1/2.8"	2.9 μm	Rolling	1920 × 1080	56 fps	12
MV-CU020-19GC	IMX290	CMOS	1/2.8"	2.9 μm	Rolling	1920 × 1080	56 fps	12
MV-CU050-30GC	AR0521	CMOS	1/2.5"	2.2 μm	Rolling	2592 × 1944	24 fps	12
MV-CU050-60GM	HK	CMOS	1/2.5"	2.2 μm	Rolling	2592 × 1944	23.1 fps	12
MV-CU050-90GM *	GMAX2505	CMOS	1/2"	2.5 μm	Global	2600 × 2160	22 fps	12
MV-CU050-90GC *	GMAX2505	CMOS	1/2"	2.5 μm	Global	2600 × 2160	22 fps	12
MV-CU060-10GM	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	19.1 fps	12
MV-CU060-10GC	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	19.1 fps	12
MV-CU120-10GM	IMX226	CMOS	1/1.7"	1.85 μm	Rolling	4024 × 3036	9.7 fps	10
MV-CU120-10GC	IMX226	CMOS	1/1.7"	1.85 μm	Rolling	4024 × 3036	9.7 fps	10

Notice:* will be released soon, please consult details with sales representative
USE:Ultra-short exposure mode
NE:Normal exposure mode

Dimension

A

B   Unit:mm

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Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC	Typ. 2 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC	Typ. 2 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Mono	NE: 31 µs~1 sec	GigE	9~24 VDC	Typ. 1.92 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	NE: 31 µs~1 sec	GigE	9~24 VDC	Typ. 2.08 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Mono	NE: 10 µs~10 sec	GigE	9~24 VDC	Typ. 1.8 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	NE: 10 µs~10 sec	GigE	9~24 VDC	Typ. 1.8 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC	Typ. 2 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC	Typ. 2 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Mono	NE: 64 µs~130 ms	GigE	9~24 VDC	Typ. 2.1 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	NE: 128 µs to 260 ms	GigE	9~24 VDC	Typ. 2.1 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	NE: 21 µs~1 sec	GigE	9~24 VDC	Typ. 1.81 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Mono	NE: 24 µs~2.5 sec	GigE	9~24 VDC	Typ. 2.5 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Mono	NE: 5 µs ~ 10 sec	GigE	9~24 VDC	Typ. 2.6 W@12 VDC	C	0~50°C	29 mm×29 mm×69.15 mm	B
Color	NE: 5 µs ~ 10 sec	GigE	9~24 VDC	Typ. 2.6 W@12 VDC	C	0~50°C	29 mm×29 mm×69.15 mm	B
Mono	NE: 25 µs~2.5 sec	GigE	9~24 VDC	Typ. 1.7 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	NE: 25 µs~2.5 sec	GigE	9~24 VDC	Typ. 1.72 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Mono	NE: 34 µs~2 sec	GigE	9~24 VDC	Typ. 1.78 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A
Color	NE: 34 µs~2 sec	GigE	9~24 VDC	Typ. 1.82 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	A

CU Series USB3.0 Area Scan Camera

Key Features

- Low power consumption, stable performance.
- Support software trigger, hardware trigger and free run.
- USB 3.0 interface, support USB power supply, body lock screw holes to improve installation stability.
- Compatible with USB3 Vision Protocol, GenlCam standard,and the third-party software.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CU013-80UM *	SS	CMOS	1/2.7"	4.0 µm	Global	1280 × 1024	210 fps	10
MV-CU013-80UC *	SS	CMOS	1/2.7"	4.0 µm	Global	1280 × 1024	210 fps	10
MV-CU013-A0UM	HK	CMOS	1/2"	4.8 µm	Global	1280 × 1024	201.4 fps	10
MV-CU013-A0UC	HK	CMOS	1/2"	4.8 µm	Global	1280 × 1024	201.4 fps	10
MV-CU050-90UM	GMAX2505	CMOS	1/2"	2.5 µm	Global	2600 × 2160	65 fps	12
MV-CU050-90UC	GMAX2505	CMOS	1/2"	2.5 µm	Global	2600 × 2160	65 fps	12
MV-CU120-10UM *	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4000 × 3036	31.9 fps	10
MV-CU120-10UC *	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4000 × 3036	31.9 fps	10

Notice:* will be released soon, please consult details with sales representative

Dimension

A

B

Unit:mm

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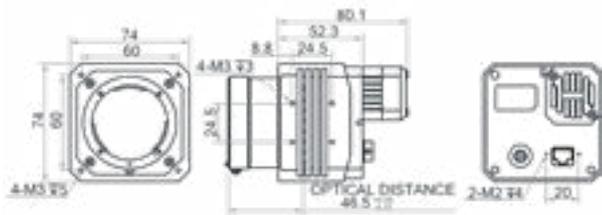| Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	30 µs ~ 1 sec	USB3.0	9~24 VDC, USB3.0	Typ. 1.93 W@5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Color	30 µs ~ 1 sec	USB3.0	9~24 VDC, USB3.0	Typ. 1.93 W@5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Mono	5 µs~10 sec	USB3.0	9~24 VDC, USB3.0	Typ. 1.79 W @5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Color	5 µs~10 sec	USB3.0	9~24 VDC, USB3.0	Typ. 1.81 W @5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Mono	5 µs ~ 10 sec	USB3.0	9~24 VDC, USB3.0	Typ. 2.1 W @5 VDC	C	0~50°C	29 mm × 29 mm × 35.6 mm	B
Color	5 µs ~ 10 sec	USB3.0	9~24 VDC, USB3.0	Typ. 2.2 W @5 VDC	C	0~50°C	29 mm × 29 mm × 35.6 mm	B
Mono	20 µs ~ 0.7 sec	USB3.0	9~24 VDC, USB3.0	Typ. 2.55 W@5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Color	20 µs ~ 0.7 sec	USB3.0	9~24 VDC, USB3.0	Typ. 2.74 W@5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A

CH Series GigE Area Scan Camera

Key Features

- Equipped with excellent image sensor. High dynamic range, superior signal-to-noise ratio and outstanding image quality.
- Implanting powerful ISP algorithms such as bright/dark field correction and lens shadow correction to ensure imaging consistency.
- Class 100 purification process control. Quality control leads in industry.
- GigE interface, with maximum transmission distance up to 100m (without relay).
- Compatible with GigE Vision V2.0 protocol and GenlCam standard and seamless connection with third-party softwares.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CH089-10GM	IMX267	CMOS	1"	3.45 μm	Global	4096 × 2160	13 fps	12
MV-CH089-10GC	IMX267	CMOS	1"	3.45 μm	Global	4096 × 2160	13 fps	12
MV-CH120-10GM	IMX304	CMOS	1.1"	3.45 μm	Global	4096 × 3000	9.4 fps	12
MV-CH120-10GC	IMX304	CMOS	1.1"	3.45 μm	Global	4096 × 3000	9.4 fps	12
MV-CH120-11GM	IMX304	CMOS	1.1"	3.45 μm	Global	4096 × 3000	9.4 fps	12
MV-CH120-20GM	XGS12000	CMOS	1"	3.2 μm	Global	4096 × 3072	9.6 fps	12
MV-CH120-20GC	XGS12000	CMOS	1"	3.2 μm	Global	4096 × 3072	9.6 fps	12
MV-CH160-60GM *	HK	CMOS	1.1"	3.2 μm	Global	4000 × 4000	7 fps	12
MV-CH250-90GM	GMAX0505	CMOS	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	12
MV-CH250-90GC	GMAX0505	CMOS	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	12
MV-CH250-90GN	GMAX0505	CMOS	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	12
MV-CH310-10GM	IMX342	CMOS	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	3.9 fps	12
MV-CH310-10GC	IMX342	CMOS	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	3.9 fps	12

Notice:* will be released soon, please consult details with sales representative
USE:Ultra-short exposure mode
NE:Normal exposure mode

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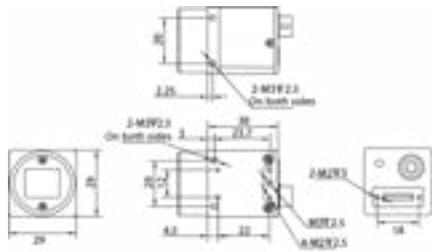| Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	12 VDC,PoE	Typ. 3.5 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	12 VDC,PoE	Typ. 3.8 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	12 VDC,PoE	Typ. 4.3 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	12 VDC,PoE	Typ. 4.6 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 4.2 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	B
Mono	USE: 52 µs~161 µs NE: 162 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 3.2 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	B
Color	USE: 52 µs~161 µs NE: 162 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 3.5 W@12 VDC	C	0~50°C	29 mm × 29 mm × 42 mm	B
Mono	NE: 12 µs~10 sec	GigE	12 VDC,PoE	Typ. 3.6 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	NE: 12 µs~10 sec	GigE	12 VDC,PoE	Typ. 3.6 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Color	NE: 12 µs~10 sec	GigE	12 VDC,PoE	Typ. 4.2 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Near-infrared	NE: 12 µs~10 sec	GigE	12 VDC,PoE	Typ. 3.6 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	USE: 3 us ~ 33 us NE: 36 µs ~ 2 Sec	GigE	9~24 VDC,PoE	Typ. 9 W@12 VDC	F	0~50°C	74 mm × 74 mm × 80.1 mm	C
					M58		74 mm × 74 mm × 74.3 mm	D
Color	USE: 3 us ~ 33 us NE: 36 µs ~ 10 Sec	GigE	9~24 VDC,PoE	Typ. 9 W@12 VDC	F	0~50°C	74 mm × 74 mm × 80.1 mm	C
					M58		74 mm × 74 mm × 74.3 mm	D

Dimension
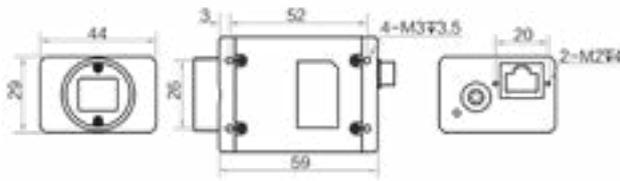
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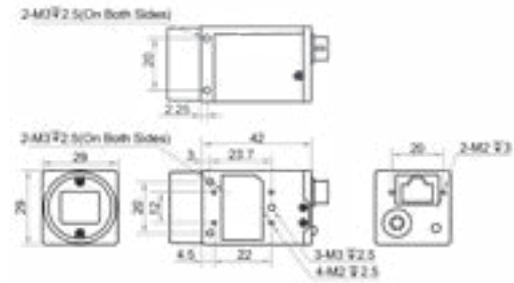
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■ CH Series USB3.0 Area Scan Camera

Key Features

- Equipped with excellent image sensor. High dynamic range, superior signal-to-noise ratio and outstanding image quality.
- Implanting powerful ISP algorithms such as bright/dark field correction and lens shadow correction to ensure imaging consistency.
- Class 100 purification process control. Quality control leads in industry.
- USB 3.0 interface, support USB power supply, body screw holes improve installation stability.
- Compatible with USB3.0 Vision protocol and GenICam standard and seamless connection with third-party softwares.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CH050-10UM	IMX250	CMOS	2/3"	3.45 µm	Global	2448 × 2048	74 fps	12
MV-CH050-10UC	IMX250	CMOS	2/3"	3.45 µm	Global	2448 × 2048	74 fps	12
MV-CH050-10UP	IMX250	CMOS	2/3"	3.45 µm	Global	2448 × 2048	74 fps	12
MV-CH089-10UM	IMX267	CMOS	1"	3.45 µm	Global	4096 × 2160	32 fps	12
MV-CH089-10UC	IMX267	CMOS	1"	3.45 µm	Global	4096 × 2160	32 fps	12
MV-CH120-11UM	IMX304	CMOS	1.1"	3.45 µm	Global	4096 × 3000	30.3 fps	12
MV-CH120-11UC	IMX304	CMOS	1.1"	3.45 µm	Global	4096 × 3000	30.3 fps	12
MV-CH120-20UM	XGS12000	CMOS	1"	3.2 µm	Global	4096 × 3072	28 fps	12
MV-CH120-20UC	XGS12000	CMOS	1"	3.2 µm	Global	4096 × 3072	28 fps	12
MV-CH250-90UM	GMAX0505	CMOS	1.1"	2.5 µm	Global	5120 × 5120	14.3 fps	12
MV-CH250-90UC	GMAX0505	CMOS	1.1"	2.5 µm	Global	5120 × 5120	14.3 fps	12

Notice: USE:Ultra-short exposure mode
　　　　NE:Normal exposure mode

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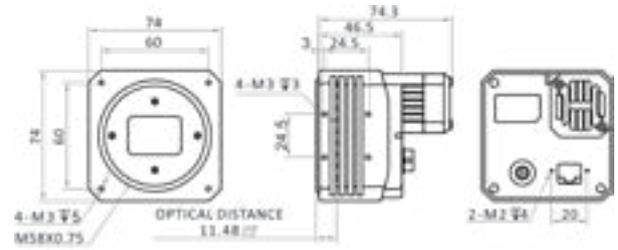
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Unit:mm

Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.5 W@5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.5 W@5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Polarization	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.5 W@5 VDC	C	0~50°C	29 mm × 29 mm × 30 mm	A
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	12 VDC,USB3.0	Typ. 3.27 W@5 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	B
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	12 VDC,USB3.0	Typ. 3.27 W@5 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	B
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 4.67 W@5 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	B
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 4.7 W@5 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	B
Mono	USE: 52 µs~161 µs NE: 162 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.5 W@5 VDC	C	0~50°C	29 mm×29 mm×30 mm	C
Color	USE: 10 µs~56 µs NE: 57 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.2 W@5 VDC	C	0~50°C	29 mm×29 mm×30 mm	C
Mono	NE: 12 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 3.4 W@5 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	B
Color	NE: 12 µs~10 sec	USB3.0	9~24 VDC,USB3.0	Typ. 4.0 W@5 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	B

## Dimension

A

B
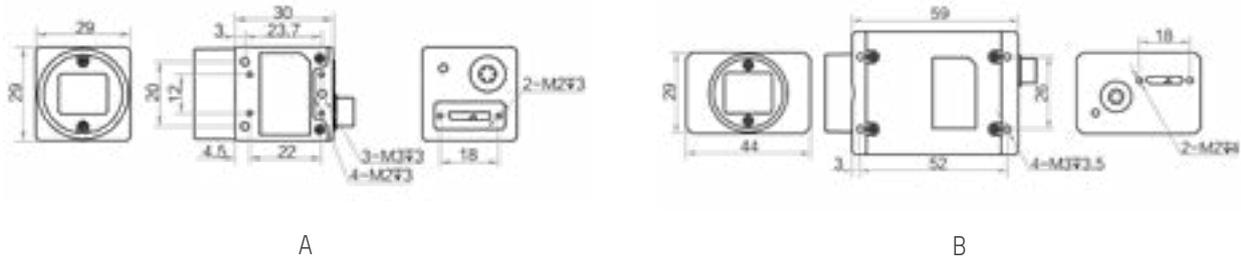
# ■ CH Series 10GigE Area Scan Camera

Key Features

- Low-power platform,equipped with excellent image sensor. High dynamic range, superior signal-to-noise ratio and outstanding image quality.
- Implanting powerful ISP algorithms such as bright/dark field correction and lens shadow correction to ensure imaging consistency.
- Class 100 purification process control. Quality control leads in industry.
- The highly cost-effective 10GigE high-speed transmission solution is backward compatible with Gigabit network.
- Compatible with GigE Vision V2.0 protocol and GenICam standard and seamless connection with third-party softwares.
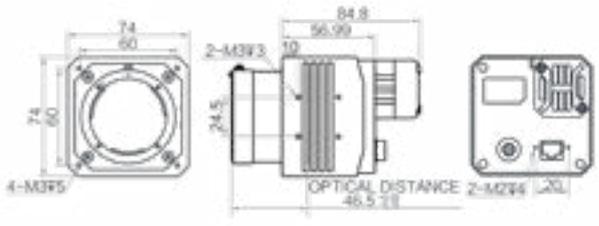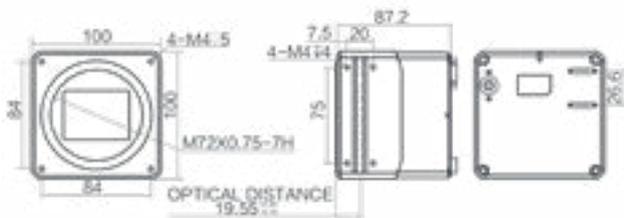- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth	Mono/color
MV-CH120-15TM	IMX253	CMOS	1.1"	3.45 μm	Global	4096 × 3000	68.2 fps	8/12	Mono
MV-CH120-15TC	IMX253	CMOS	1.1"	3.45 μm	Global	4096 × 3000	68.2 fps	8/12	Color
MV-CH240-10TM	IMX540	CMOS	1.2"	2.74 μm	Global	5328 × 4600	35.1 fps	8/12	Mono
MV-CH250-60TM	HK	CMOS	23 mm × 23 mm	4.5 μm	Global	5120 × 5120	31.7 fps	10	Mono
MV-CH250-90TM	PYTHON25K	CMOS	23 mm × 23 mm	4.5 μm	Global	5120 × 5120	40 fps	10	Color
MV-CH250-90TC	GMAX0505	CMOS	1.1"	2.5 μm	Global	5120 × 5120	41.5 fps	12	Color
MV-CH310-10TM	IMX342	CMOS	24.9 mm × 16.6 mm	3.45 μm	Global	6464 × 4852	17.2 fps	8/12	Mono
MV-CH310-10TC	IMX342	CMOS	24.9 mm × 16.6 mm	3.45 μm	Global	6464 × 4852	17.2 fps	8/12	Mono
MV-CH500-90TM	GMAX	CMOS	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	15.5 fps	12	Mono
MV-CH500-90TC	GMAX	CMOS	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	15.5 fps	12	Color
MV-CH650-90TM	GMAX3265	CMOS	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	15.5 fps	12	Mono
MV-CH650-90TC	GMAX3265	CMOS	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	15.5 fps	12	Color
MV-CH1510-10FM	IMX411	CMOS	66.7 mm	3.76 μm	Rolling	14208 × 10640	6.2 fps	12/16	Mono

Notice:USE:Ultra-short exposure mode
NE:Normal exposure mode

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C   Unit:mm

Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
USE: 2 μs~14 μs NE: 15 μs~10 sec	10GigE	9~24 VDC	Typ. 9.6 W@24 VDC	M58	0~50°C	74 mm × 74 mm × 72.4 mm	A
USE: 2 μs~14 μs NE: 15 μs~10 sec	10GigE	9~24 VDC	Typ. 10.1 W@24 VDC	M58	0~50°C	74 mm × 74 mm × 72.4 mm	A
USE: 1 μs~7 μs NE: 8 μs~10 sec	10GigE	9~24 VDC	Typ. 10 W@12 VDC	M58	0~50°C	84 mm × 84 mm × 62.5 mm	B
				C		84 mm × 84 mm × 62.5 mm	C
NE: 13 μs to 10 sec	10GigE	9~24 VDC	Typ. 15.1W@12 VDC	M58	0~50°C	74 mm × 74 mm × 78.8 mm	D
				C		74 mm × 74 mm × 78.8 mm	E
NE: 45 μs~10 sec	10GigE	9~24 VDC	Typ. 12.48 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 78.8 mm	F
				C		74 mm × 74 mm × 78.8 mm	E
NE: 13 μs to 10 sec	10GigE	9~24 VDC	Typ. 9.7 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 78.8 mm	E
				C		74 mm × 74 mm × 78.8 mm	F
NE: 4 μs~10 sec	10GigE	9~24 VDC	Typ. 11.5 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 64.4 mm	G
NE: 4 μs~10 sec	10GigE	9~24 VDC	Typ. 11.5 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 64.4 mm	G
NE: 15 μs~10 sec	10GigE	9~24 VDC	Typ. 11 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 78.8 mm	D
NE: 15 μs~10 sec	10GigE	9~24 VDC	Typ. 12 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 78.8 mm	D
NE: 15 μs~10 sec	10GigE	9~24 VDC	Typ. 11 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 78.8 mm	D
				F		74 mm × 74 mm × 84.8 mm	H
NE: 15 μs~10 sec	10GigE	9~24 VDC	Typ. 11 W@12 VDC	M58	0~50°C	74 mm × 74 mm × 78.8 mm	D
				F		74 mm × 74 mm × 84.8 mm	H
NE: 30 μs~10 sec	10GigE	24 VDC	TEC off: Typ. 11.3 W@24 VDC TEC on: Typ. 49 W@24 VDC	M72	0~50°C	120 mm × 120 mm × 89 mm	I

Dimension

A

B

E

F

I

Unit:mm
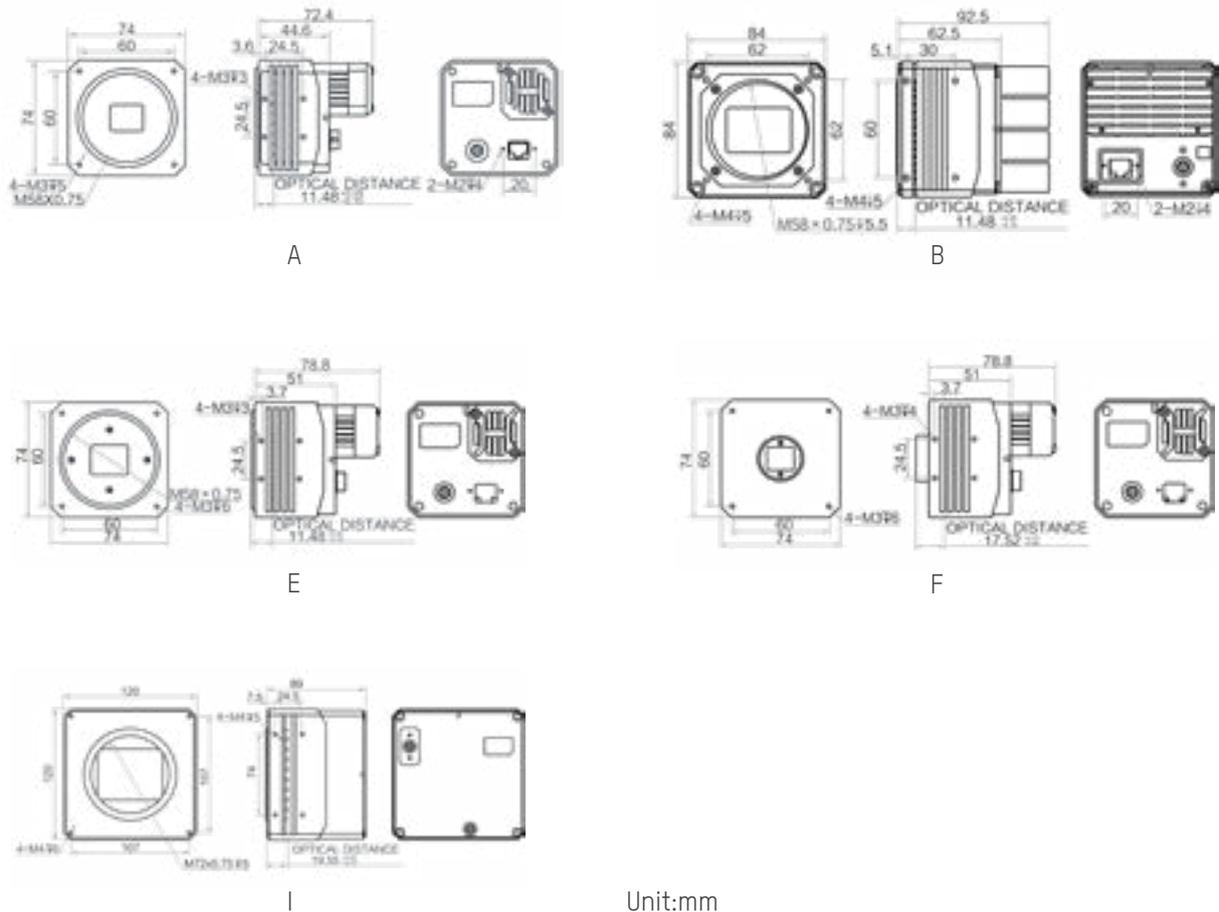
■ CH Series Camera Link Area Scan Camera

Key Features

- Equipped with excellent image sensor. High dynamic range, superior signal-to-noise ratio and outstanding image quality.
- Implanting powerful ISP algorithms such as bright/dark field correction and lens shadow correction to ensure imaging consistency.
- Class 100 purification process control. Quality control leads in industry.
- Support Base, Medium, Full and 80-bit mode. Pixel clock frequency can be selected to match cables with different transmission distances.
- Compatible with CameraLink protocol and GenICam standard and can be seamlessly connected to third-party software platforms.
- CE, FCC, RoHS, KC certification.
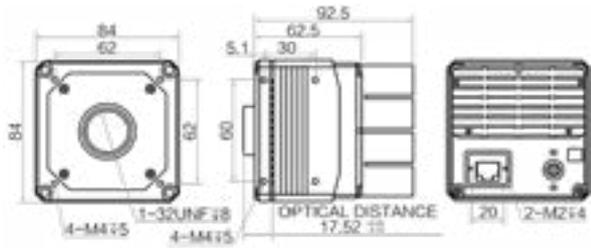
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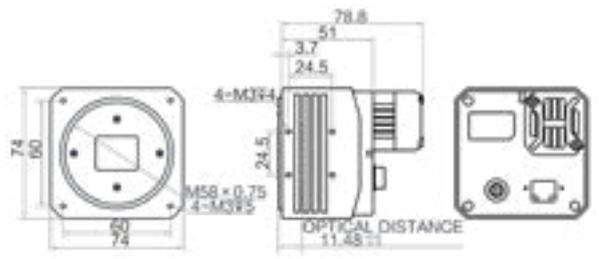
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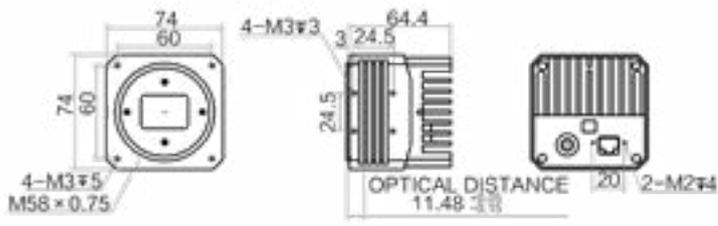
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Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CH050-10CM	IMX250	CMOS	2/3"	3.45 µm	Global	2432 × 2048	140 fps	8/12
MV-CH050-10CC	IMX250	CMOS	2/3"	3.45 µm	Global	2432 × 2048	140 fps	8/12
MV-CH050-11CM	IMX264	CMOS	2/3"	3.45 µm	Global	2448 × 2048	35 fps	12
MV-CH120-10CM	IMX253	CMOS	1.1"	3.45 µm	Global	3840 × 3000	69.8 fps	8
MV-CH120-10CC	IMX253	CMOS	1.1"	3.45 µm	Global	3840 × 3000	68.1 fps	8
MV-CH120-11CM	IMX304	CMOS	1.1"	3.45 µm	Global	4096 × 3000	23.4 fps	12
MV-CH1010-10CM	IMX461	CMOS	55 mm	3.76 µm	Rolling	11648 × 8740	8.1 fps	12/16
MV-CH1010-10CC	IMX461	CMOS	55 mm	3.76 µm	Rolling	11648 × 8740	8.1 fps	12/16

Notice:USE:Ultra-short exposure mode
NE:Normal exposure mode

Dimension

A

B
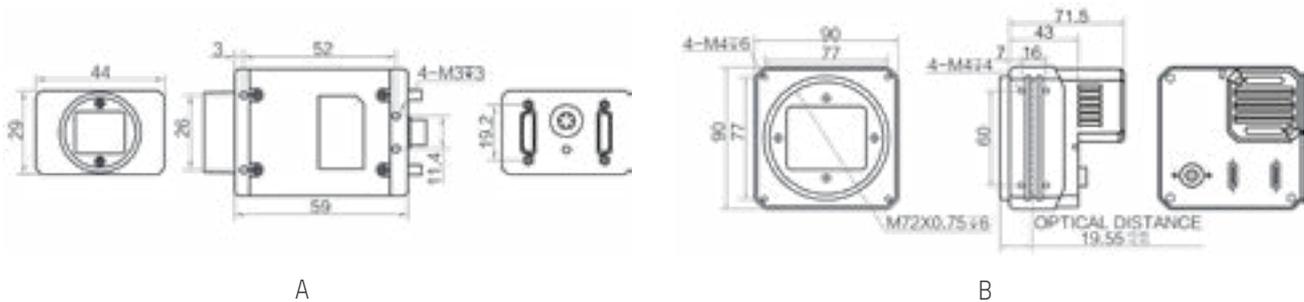
CH Series CoaXPress Area Scan Camera

Key Features

- Low-power platform,equipped with excellent image sensor. High dynamic range, superior signal-to-noise ratio and outstanding image quality.
- Implanting powerful ISP algorithms such as bright/dark field correction and lens shadow correction to ensure imaging consistency.
- Class 100 purification process control. Quality control leads in industry.
- Four-channel CXP-6 or CXP-12 output, ultra-high transmission bandwidth.
- Compatible with CoaXPress protocol and GenICam standard and can be seamlessly connected to third-party software platforms.
- CE, FCC, RoHS, KC certification.

| Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	NE: 15 μs~10 sec	Camera Link	9~24 VDC	Typ. 3.3 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Color	NE: 15 μs~10 sec	Camera Link	9~24 VDC	Typ. 3.41 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	NE: 15 μs~10 sec	Camera Link	9~24 VDC	Typ. 3.25 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	NE: 1 μs~10 sec	Camera Link	9~24 VDC	Typ. 4.51 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Color	NE: 1 μs~ 10 sec	Camera Link	9~24 VDC	Typ. 4.5 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	USE: 1 μs~14 sec NE: 15 μs~10 sec	Camera Link	9~24 VDC	Typ. 3.48 W@12 VDC	C	0~50°C	44 mm × 29 mm × 59 mm	A
Mono	NE: 14μs~10sec	Camera Link	12~24 VDC	Typ. 14 W@24 VDC	M72	0~50°C	90 mm × 90 mm × 71.5 mm	B
			24 VDC	TEC off: Typ. 14 W@24 VDC TEC on: Typ. 48 W@24 VDC			TEC:100 mm × 100 mm × 87.2 mm	C
Mono	NE: 14μs~10sec	Camera Link	24 VDC	TEC off: Typ. 14 W@24 VDC TEC on: Typ. 48 W@24 VDC	M72	0~50°C	TEC:100 mm × 100 mm × 87.2 mm	C

C   Unit:mm

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CH210-90YM	Gsprint 4521	CMOS	23.04 mm × 18.43 mm	4.5 µm	Global	5120 × 4096	222 fps	8/12
MV-CH210-90YC	Gsprint 4521	CMOS	23.04 mm × 18.43 mm	4.5 µm	Global	5120 × 4096	222 fps	8/12
MV-CH250-90YM	GMAX0505	CMOS	1.1"	2.5 µm	Global	5120 × 5120	150 fps	10
MV-CH250-90YC	GMAX0505	CMOS	1.1"	2.5 µm	Global	5120 × 5120	150 fps	10
MV-CH650-90XM	GMAX3265	CMOS	29.9 mm × 22.4 mm	3.2 µm	Global	9344 × 7000	31.5 fps	12
MV-CH650-90XC	GMAX3265	CMOS	29.9 mm × 22.4 mm	3.2 µm	Global	9344 × 7000	31.5 fps	12
MV-CH650-90YM	GMAX3265	CMOS	29.9 mm × 22.4 mm	3.2 µm	Global	9344 × 7000	71 fps	10
MV-CH650-90YC	GMAX3265	CMOS	29.9 mm × 22.4 mm	3.2 µm	Global	9344 × 7000	71 fps	10
MV-CH1510-10XM	IMX411	CMOS	66.7 mm	3.76 µm	Rolling	14208 × 10640	6.2 fps	12/16
MV-CH1510-10XC	IMX411	CMOS	66.7mm	3.76 µm	Rolling	14208 × 10640	6.2 fps	12/16
MV-CH1510-11XM	IMX411	CMOS	66.7mm	3.76 µm	Rolling	14208 × 10640	6.2 fps	12/16
MV-CH1510-11XC	IMX411	CMOS	66.7mm	3.76 µm	Rolling	14208 × 10640	6.2 fps	12/16
MV-CH6040-10XM	IMX411	CMOS	66.7mm	3.76 µm	Rolling	28416 × 21280	6.2 fps	12/16

Notice:* will be released soon.
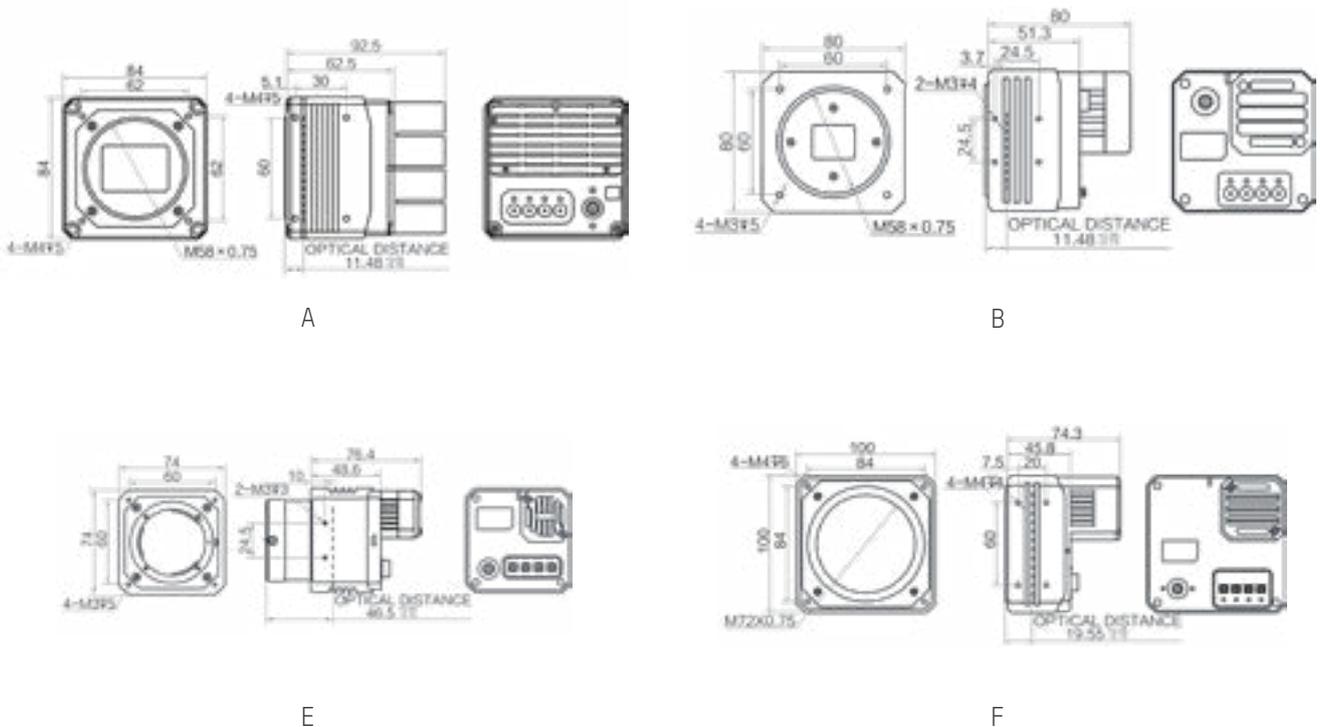
Dimension

A

B

E

F

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Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	4 μs~10 sec	CXP-12	9~24 VDC	Typ. 18 W@24 VDC	M58	0~50°C	No fan:84 mm × 84 mm × 62.5 mm	A
Color	4 μs~10 sec	CXP-12	9~24 VDC	Typ. 16.3 W@24 VDC	M58	0~50°C	No fan:84 mm × 84 mm × 62.5 mm	A
Mono	13 μs~10 sec	CXP-12	9~24 VDC	Typ. 13.7 W@12 VDC	M58 / C	0~50°C	Fan:80 mm × 80 mm × 80 mm / Fan:80 mm × 80 mm × 80 mm	B / C
Color	13 μs~10 sec	CXP-12	9~24 VDC	Typ. 13.7 W@12 VDC	M58 / C	0~50°C	Fan:80 mm × 80 mm × 80 mm	B / C
Mono	14 μs~10 sec	CXP-6	9~24 VDC	Typ. 10.5W@12 VDC	M58 / F	0~50°C	Fan:74 mm × 74 mm × 70.4 mm / Fan:74 mm × 74 mm × 76.4 mm	D / E
Color	14 μs~10 sec	CXP-6	9~24 VDC	Typ. 10.2W@12 VDC	M58 / F	0~50°C	Fan:74 mm × 74 mm × 70.4 mm / Fan:74 mm × 74 mm × 76.4 mm	D / E
Mono	15 μs~10 sec	CXP-12	24 VDC	Typ. 13.0W@12 VDC	M58	0~50°C	No fan:84 mm × 84 mm × 62.5 mm	A
Color	15 μs~10 sec	CXP-12	24 VDC	Typ. 13.2W@12 VDC	M58	0~50°C	No fan:84 mm × 84 mm × 62.5 mm	A
Mono	15 μs~10 sec	CXP-6	12~24 VDC	Typ. 18 W@24 VDC	M72	0~50°C	Fan:100 mm × 100 mm × 74.3 mm	F
Color	15 μs~10 sec	CXP-6	12~24 VDC	Typ. 21 W@24 VDC	M72	0~50°C	Fan:100 mm × 100 mm × 74.3 mm	F
Mono	15 μs~10 sec	CXP-6	24 VDC	TEC off: Typ. 21 W@24 VDC / TEC on: Typ. 55 W@24 VDC	M72	0~50°C	TEC:120 mm × 120 mm × 84.6 mm	G
Color	15 μs~10 sec	CXP-6	24 VDC	TEC off: Typ. 22 W@24 VDC / TEC on: Typ. 60 W@24 VDC	M72	0~50°C	TEC:120 mm × 120 mm × 84.6 mm	G
Mono	15 μs~1 sec	CXP-6	24 VDC	Typ. 15 W@24 VDC	M72	0~50°C	Fan:100 mm × 100 mm × 128.5 mm	H
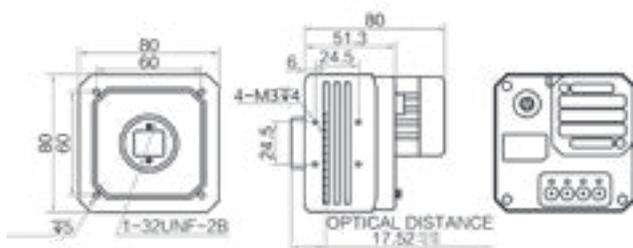
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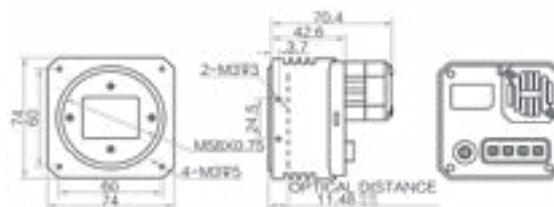
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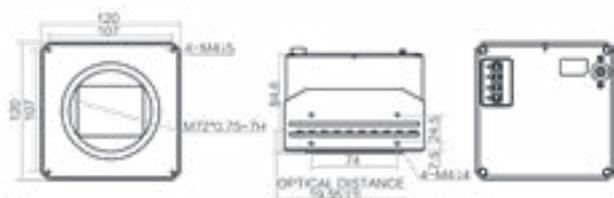
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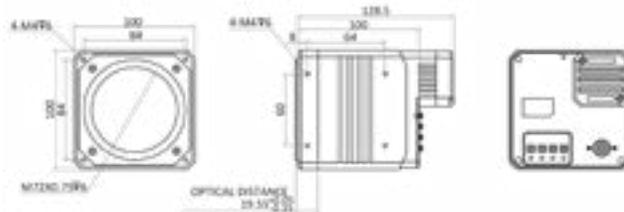
H

Unit:mm

# Line Scan Camera

◼ CL Series GigE Line Scan Camera

Key Features

- Support automatic or manual adjustment of gain, exposure time, etc.
- Support customizing ROI,binning,TDI.
- Support multiple trigger modes, including hardware trigger, software trigger and free run mode.
- Support PRNUC and FPNC.
- Multiple ISP algorithms, ensuring the optimal image quality.
- Compatible with GigE Vision and GenICam standard and can be seamlessly connected to third-party software platforms.
- CE, FCC, RoHS, KC certification.

Specifications

| Model	Sensor type	Pixel size	Resolution	Max. line rate	ADC bit depth	Mono/color	Exposure time	Data interface
MV-CL022-91GM	CMOS	14 μm	2048 × 1	100 kHz@HB	8/10/12	Mono	5 μs~10 ms	GigE
MV-CL022-91GC	CMOS	14 μm	2048 × 2	40 kHz@HB	8/10/12	Color	5 μs~10 ms	GigE
MV-CL024-91GM *	CMOS	7 μm	2048 × 2	86 kHz@HB	8/10/12	Mono	3 μs~10 ms	GigE
MV-CL024-91GC *	CMOS	7 μm	2048 × 3	70 kHz@HB	8/10/12	Color	3 μs~10 ms	GigE
MV-CL042-91GM	CMOS	7 μm	4096 × 2	80 kHz@HB	8/10/12	Mono	5 μs~10 ms	GigE
MV-CL042-91GC	CMOS	7 μm	4096 × 2	80 kHz@HB	8/10/12	Color	5 μs~10 ms	GigE
MV-CL084-91GM	CMOS	5 μm	8192 × 4	40 kHz@HB	8/10/12	Mono	3 μs~10 ms	GigE
MV-CL086-91GC	CMOS	5 μm	8192 × 6	40 kHz@HB	8/10	Color	3 μs~10 ms	GigE

Notice:* will be released soon.
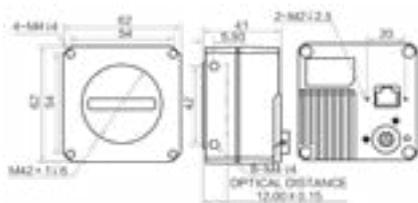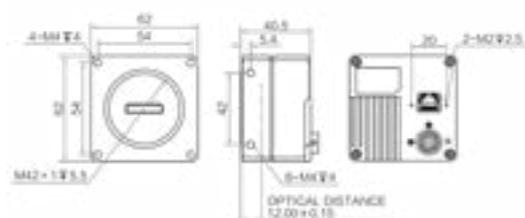
Dimension

A

B

Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
12~24 VDC,PoE	Typ. 5 W@12 VDC	M42	-20~55℃	62 mm × 62 mm × 41 mm	A
12~24 VDC,PoE	Typ. 7.4 W@12 VDC	M42	-20~55℃	62 mm × 62 mm × 41 mm	A
12~24 VDC,PoE	Typ. 5.2 W@12 VDC	M42	-20~55℃	62 mm × 62 mm × 40.5 mm	B
12~24 VDC,PoE	Typ. 5.7 W@12 VDC	M42	-20~55℃	62 mm × 62 mm × 40.5 mm	B
12~24 VDC,PoE	Typ. 5.8 W@12 VDC	M42	-20~55℃	62 mm × 62 mm × 41 mm	A
12~24 VDC,PoE	Typ. 6.6 W@12 VDC	M42	-20~55℃	62 mm × 62 mm × 41 mm	A
12~24 VDC	Typ. 12.4 W@12 VDC	M72	-20~55℃	80 mm × 80 mm × 46.3 mm	C
12~24 VDC	Typ. 13 W@12 VDC	M72	-20~55℃	80 mm × 80 mm × 46.3 mm	C
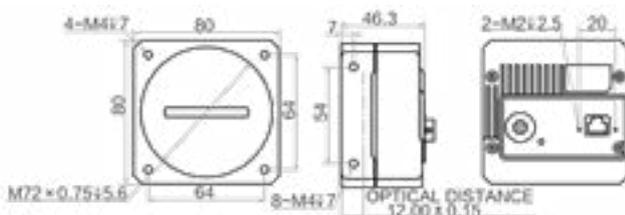
C   Unit:mm

■ CL Series Camera Link Line Scan Camera

Key Features

- Support automatic or manual adjustment of gain, exposure time, etc.
- Support customizing ROI,binning,TDI.
- Support multiple trigger modes, including hardware trigger, software trigger and free run mode.
- Support PRNUC and FPNC.
- Multiple ISP algorithms, ensuring the optimal image quality.
- Compatible with Camera Link protocol and GenICam standard and can be seamlessly connected to third-party software platforms.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor type	Pixel size	Resolution	Max. line rate	ADC bit depth	Mono/color	Exposure time
MV-CL042-91CM	CMOS	7 µm	4096 × 2	100 kHz	8/10/12	Mono	5 µs~10 ms
MV-CL042-91CC	CMOS	7 µm	4096 × 2	100 kHz	8	Color	5 µs~10 ms
MV-CL081-41CM	CMOS	7 µm	8192 × 1	80 kHz	8/10/12	Mono	2 µs~10 ms
MV-CL082-92CM	CMOS	7 µm	8192 × 2	100 kHz	8/10/12	Mono	3 µs~10 ms
MV-CL084-91CM	CMOS	5 µm	8192 × 4	100 kHz	8/10/12	Mono	3 µs~10 ms
MV-CL084-91CM-PRO	CMOS	5 µm	8192 × 16	100 kHz	8/10/12	Mono	3 µs~10 ms
MV-CL086-91CC	CMOS	5 µm	8192 × 6	33.7 kHz	8	Color	3 µs~10 ms
MV-CL086-91CC-PRO	CMOS	5 µm	8192 × 12	34 kHz	8	Color	3 µs~10 ms
MV-CL161-41CM	CMOS	3.5 µm	16384 × 1	50 kHz	8/10/12	Mono	2 µs~10 ms
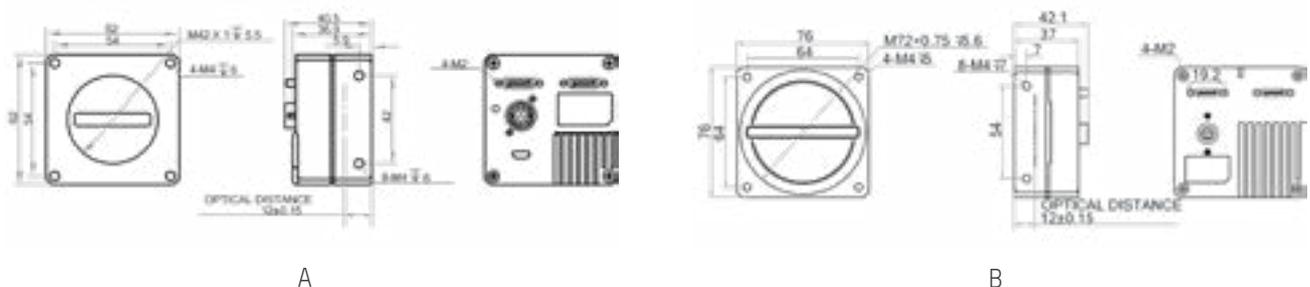
Dimension

A

B

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Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Camera Link	12~24 VDC	Typ. 5.5 W@12 VDC	M42	-20~55°C	62 mm × 62 mm × 36.9 mm	A
Camera Link	12~24 VDC	Typ. 6.1 W@12 VDC	M42	-20~55°C	62 mm × 62 mm × 36.9 mm	A
Camera Link	12 ~ 24 VDC	Typ. 5.8 W @12 VDC	M72	0~55°C	76 mm × 76 mm × 42.1 mm	B
Camera Link	12 ~ 24 VDC	Typ. 9.8 W@12 VDC	M72	-20~55°C	76 mm × 76 mm × 42.1 mm	B
Camera Link	12~24 VDC	Typ. 9.7 W@12 VDC	M72	-20~55°C	84 mm × 84 mm × 46.2 mm	C
Camera Link	24 VDC	Typ. 22.9 W@24 VDC	M72	-20~60°C	84 mm × 84 mm × 89 mm	D
Camera Link	12~24 VDC	Typ. 9.6 W@12 VDC	M72	-20~50°C	84 mm × 84 mm × 46.2 mm	C
Camera Link	24 VDC	Typ. 20.5 W@24 VDC	M72	-20~60°C	84 mm × 84 mm × 89 mm	D
Camera Link	12~24 VDC	Typ. 7.2 W@24 VDC	M72	0~55°C	76 mm × 76 mm × 42.1 mm	B
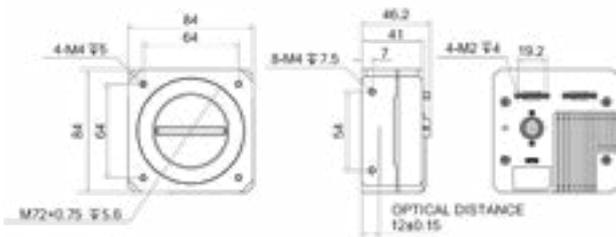
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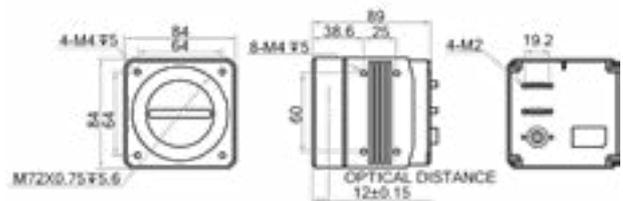
D

Unit:mm

Board Level Camera

■ CB Series GigE Board Level Camera

Key Features

- Multi-board design. Support flexible installation and configuration.
- Support access to mainstream embedded development boards for quick secondary development.
- Compact structure, bare board, C interface, M12 interface are available.
- GigE interface, support PoE.
- Compatible with machine vision standard protocols and GenlCam standard, seamless connection to third-party software platforms.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	ADC bit depth
MV-CB004-10GM-S	IMX297	CMOS	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	10
MV-CB004-10GC-C	IMX297	CMOS	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	10
MV-CB004-10GC-S	IMX297	CMOS	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	10
MV-CB016-10GM-C	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CB016-10GM-S	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CB016-10GM-M-W	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CB016-10GM-S-W	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CB016-10GC-C	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CB016-10GC-S	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CB016-10GC-S-W	IMX296	CMOS	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	10
MV-CB060-10GM-C	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	12
MV-CB060-10GM-S	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	12
MV-CB060-10GM-S-W	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	12
MV-CB060-10GM-M	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	12
MV-CB060-10GC-C	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	12
MV-CB060-10GC-S	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	12
MV-CB060-10GC-S-W	IMX178	CMOS	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	12

Notice:USE:Ultra-short exposure mode
NE:Normal exposure mode

Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.5 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 30.2 mm	B
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	C	0~50°C	29 mm × 29 mm × 30.2 mm	A
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 30.2 mm	B
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	C	0~50°C	29 mm × 29 mm × 30.2 mm	A
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 30.2 mm	B
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC	Typ. 2.6 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 21.2 mm	C
Mono	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC	Typ. 2.6 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 22.4 mm	D
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.7 W@12 VDC	C	0~50°C	29 mm × 29 mm × 30.2 mm	A
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC,PoE	Typ. 2.7 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 30.2 mm	B
Color	USE: 1 µs~14 µs NE: 15 µs~10 sec	GigE	9~24 VDC	Typ. 2.7 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 22.4 mm	D
Mono	NE: 25 µs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.3 W@12 VDC	C	0~50°C	29 mm × 29 mm × 30.2 mm	A
Mono	NE: 25 µs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.3 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 30.2 mm	B
Mono	NE: 25 µs~2.5 sec	GigE	9~24 VDC	Typ. 2.3 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 22.4 mm	D
Mono	NE: 25 µs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.3 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 29 mm	E
Color	NE: 25 µs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	C	0~50°C	29 mm × 29 mm × 30.2 mm	A
Color	NE: 25 µs~2.5 sec	GigE	9~24 VDC,PoE	Typ. 2.6 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 30.2 mm	B
Color	NE: 25 µs~2.5 sec	GigE	9~24 VDC	Typ. 2.6 W@12 VDC	M12	0~50°C	29 mm × 29 mm × 22.4 mm	D

Dimension

A

B

E
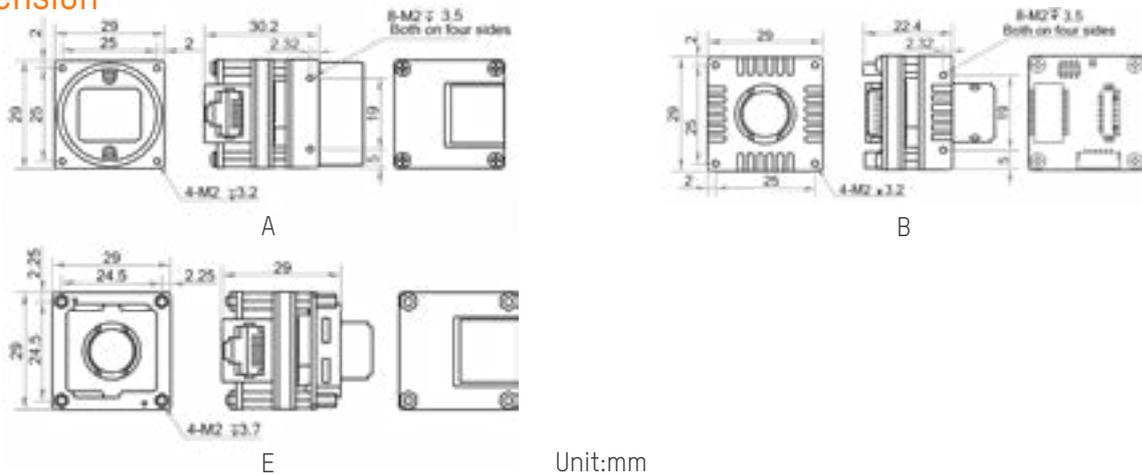
Unit:mm

■ CB Series USB3.0 Board Level Camera

Key Features

- Single-board simplified design. Support flexible installation and configuration.
- Support access to mainstream embedded development boards for quick secondary development.
- Compact structure, bare board, C interface, M12 interface are available.
- USB3.0 interface, support USB interface power supply, low power consumption.
- Compatible with machine vision standard protocols and GenlCam standard, seamless connection to third-party software platforms.

Specifications

Model	Sensor model	Sensor type	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	bit depth
MV-CB013-A0UM-B	HK	CMOS	1/2"	4.8 µm	Global	1280 × 1024	201 fps	10
MV-CB013-A0UM-C	HK	CMOS	1/2"	4.8 µm	Global	1280 × 1024	201 fps	10
MV-CB013-A0UM-S	HK	CMOS	1/2"	4.8 µm	Global	1280 × 1024	201 fps	10
MV-CB013-A0UC-C	HK	CMOS	1/2"	4.8 µm	Global	1280 × 1024	201 fps	10
MV-CB013-A0UC-S	HK	CMOS	1/2"	4.8 µm	Global	1280 × 1024	201 fps	10
MV-CB050-11UC-C *	IMX264	CMOS	2/3"	3.45 µm	Rolling	2448 × 2048	60 fps	12
MV-CB060-10UM-B	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	17 fps	12
MV-CB060-10UM-C	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	17 fps	12
MV-CB060-10UM-S	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	17 fps	12
MV-CB060-10UC-B	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	29 fps	12
MV-CB060-10UC-C	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	29 fps	12
MV-CB060-10UC-S	IMX178	CMOS	1/1.8"	2.4 µm	Rolling	3072 × 2048	29 fps	12
MV-CB120-10UM-B	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4032 × 3036	28 fps	10
MV-CB120-10UM-C	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4032 × 3036	28 fps	10
MV-CB120-10UM-S	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4032 × 3036	28 fps	10
MV-CB120-10UC-B	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4032 × 3036	21 fps	10
MV-CB120-10UC-C	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4032 × 3036	21 fps	10
MV-CB120-10UC-S	IMX226	CMOS	1/1.7"	1.85 µm	Rolling	4032 × 3036	21 fps	10

Notice:USE:Ultra-short exposure mode
NE:Normal exposure mode
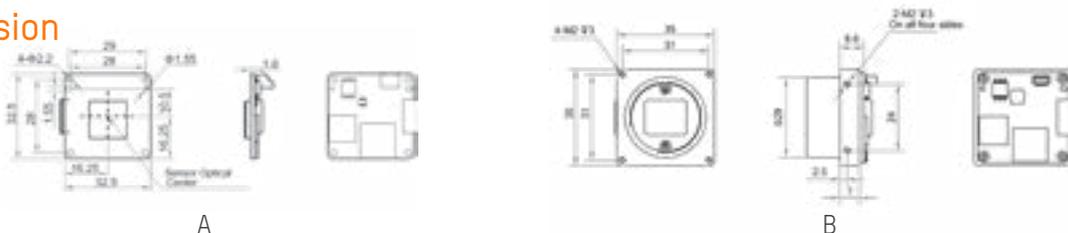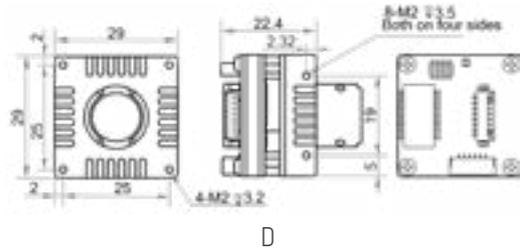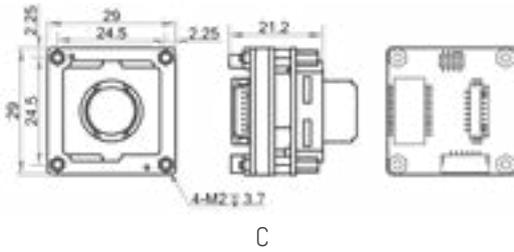
Dimension

A

B

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C

D

Mono/color	Exposure time	Data interface	Power supply	Power consumption	Lens mount	Working temperature	Dimension	Label
Mono	NE: 9 μs~10 sec	USB3.0	USB	Typ. 1.6 W@5 VDC	None	0~50°C	32.5 mm × 32.5 mm × 1.6 mm	A
Mono	NE: 9 μs~10 sec	USB3.0	USB	Typ. 1.6 W@5 VDC	C	0~50°C	35 mm × 35 mm × 8.6 mm	B
Mono	NE: 9 μs~10 sec	USB3.0	USB	Typ. 1.6 W@5 VDC	M12	0~50°C	35 mm × 35 mm × 8.6 mm	C
Color	NE: 9 μs~10 sec	USB3.0	USB	Typ. 2.8 W@5 VDC	C	0~50°C	35 mm × 35 mm × 8.6 mm	B
Color	NE: 9 μs~10 sec	USB3.0	USB	Typ. 2.8 W@5 VDC	M12	0~50°C	35 mm × 35 mm × 8.6 mm	C
Color	USE: 1 μs ~ 14 μs NE: 15 μs ~ 10 sec	USB3.0	9~24 VDC,USB	Typ. 2.9 W@5 VDC	C	0~50°C	29 mm × 29 mm × 31.3 mm	D
Mono	NE: 27 μs~2.5 sec	USB3.0	USB	Typ. 2.0 W@5 VDC	None	0~50°C	32.5 mm × 32.5 mm × 1.6 mm	A
Mono	NE: 27 μs~2.5 sec	USB3.0	USB	Typ. 2.0 W@5 VDC	C	0~50°C	35 mm × 35 mm × 8.6 mm	B
Mono	NE: 27 μs~2.5 sec	USB3.0	USB	Typ. 2.0 W@5 VDC	M12	0~50°C	35 mm × 35 mm × 8.6 mm	C
Color	NE: 16 μs~2.5 sec	USB3.0	USB	Typ. 2.0 W@5 VDC	None	0~50°C	32.5 mm × 32.5 mm × 1.6 mm	A
Color	NE: 16 μs~2.5 sec	USB3.0	USB	Typ. 2.0 W@5 VDC	C	0~50°C	35 mm × 35 mm × 8.6 mm	B
Color	NE: 16 μs~2.5 sec	USB3.0	USB	Typ. 2.0 W@5 VDC	M12	0~50°C	35 mm × 35 mm × 8.6 mm	C
Mono	NE: 11 μs~2 sec	USB3.0	USB	Typ. 2.45 W@5 VDC	None	0~50°C	32.5 mm × 32.5 mm × 1.6 mm	A
Mono	NE: 11 μs~2 sec	USB3.0	USB	Typ. 2.45 W@5 VDC	C	0~50°C	35 mm × 35 mm × 8.6 mm	B
Mono	NE: 11 μs~2 sec	USB3.0	USB	Typ. 2.45 W@5 VDC	M12	0~50°C	35 mm × 35 mm × 8.6 mm	C
Color	NE: 23 μs~2 sec	USB3.0	USB	Typ. 2.45 W@5 VDC	None	0~50°C	32.5 mm × 32.5 mm × 1.6 mm	A
Color	NE: 23 μs~2 sec	USB3.0	USB	Typ. 2.45 W@5 VDC	C	0~50°C	35 mm × 35 mm × 8.6 mm	B
Color	NE: 23 μs~2 sec	USB3.0	USB	Typ. 2.45 W@5 VDC	M12	0~50°C	35 mm × 35 mm × 8.6 mm	C

C

D
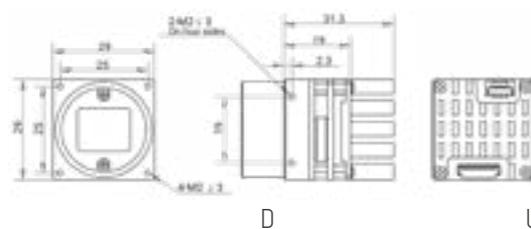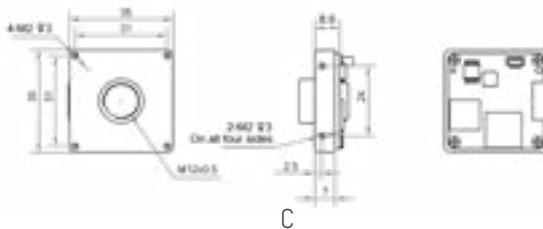
Unit:mm

Industrial Infrared Camera

■ CI Series GigE Industrial Infrared Camera

Key Features

- Using high-sensitivity vanadium oxide uncooled detector, resolution 640×512.
- Provide a variety of pseudo-color modes, rich image adjustment functions.
- Small and structural design that supports installation on four sides.
- GigE interface, with maximum transmission distance up to 100m (without relay).
- Compatible with GigE Vision protocol and GenICam standard.
- CE, FCC, RoHS, KC certification.

Specifications

Model	Observation/ Thermometry	Temperature measurement range	Temperature measurement accuracy	Sensor type	Spectral range	Pixel pitch	Resolution	Max. frame rate	ADC bit depth
MV-CI003-GL-N6	Observation	/	/	Vanadium oxide uncooled detector	8-14 µm	17 µm	640 × 512	50 fps	8/16
MV-CI003-GL-N15	Observation	/	/	Vanadium oxide uncooled detector	8-14 µm	17 µm	640 × 512	50 fps	8/16
MV-CI003-GL-N25	Observation	/	/	Vanadium oxide uncooled detector	8-14 µm	17 µm	640 × 512	50 fps	8/16
MV-CI003-GL-N35	Observation	/	/	Vanadium oxide uncooled detector	8-14 µm	17 µm	640 × 512	50 fps	8/16
MV-CI003-GL-T6*	Thermometry	-20°C -150°C /0°C -550°C	±2°C / read±2%(take great value)	Vanadium oxide uncooled detector	8-14 µm	17 µm	640 × 512	50 fps	16

Notice:* will be released soon.

Dimension

A

B

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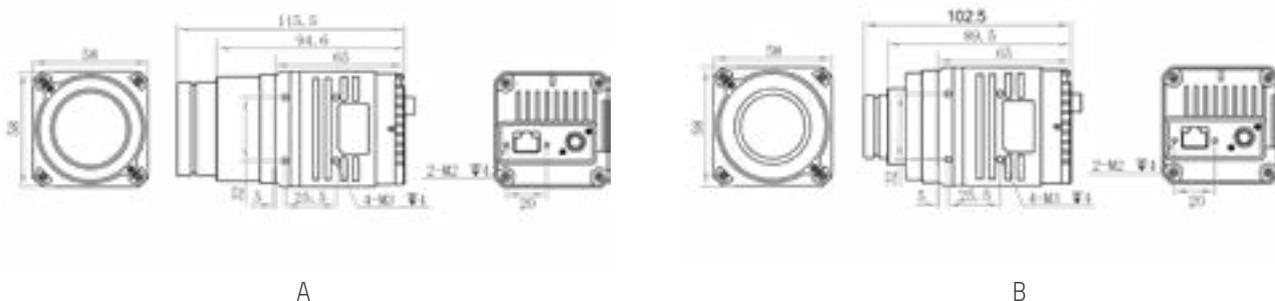
NETD	Data interface	Power supply	Power consumption	Lens mount	Focal length	Working temperature	Dimension	Label
< 35 mk(F1.0, 25°C)	GigE	9~24 VDC,POE	2.5 W@12 VDC	M34	6.3 mm	-30~60°C	58 mm x 58 mm × 115.5 mm	A
< 35 mk(F1.0, 25°C)	GigE	9~24 VDC,POE	2.5 W@12 VDC	M34	15 mm	-30~60°C	58 mm x 58 mm × 102.5 mm	B
< 35 mk(F1.0, 25°C)	GigE	9~24 VDC,POE	2.5 W@12 VDC	M34	25 mm	-30~60°C	58 mm x 58 mm × 96.9 mm	C
< 35 mk(F1.0, 25°C)	GigE	9~24 VDC,POE	2.5 W@12 VDC	M34	35 mm	-30~60°C	58 mm x 58 mm × 115.5 mm	A
< 50 mk(F1.0, 30°C)	GigE	9~24 VDC	2.8 W@12 VDC	M34	6.3 mm	-20~50°C	48 mm x 48 mm × 121.4 mm	D
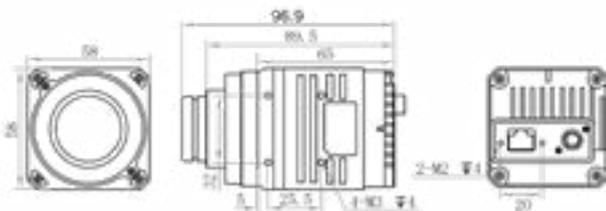
C
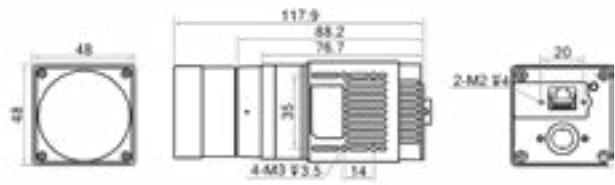
D

Unit:mm

Smart Camera

■ SC2000E Series Vision Sensor

Key Features

• Using embedded hardware platform, high-speed image processing can be carried out.
• Implant high-precision positioning and measurement algorithms, which can detect presence, positive and negative, etc.
• Rich IO interface, can access multiple input and output signals.
• Abundant status indicators, real-time grasp of equipment status, convenient for debugging and maintenance.
• The light source lamp cup is ingeniously designed to ensure uniform brightness in the lighting area.
• Small size, no fear of small spaces.
• Support multiple communication modes, such as serial port, TCP, UDP, FTP, EtherNet/IP, Modbus, Profinet, etc.
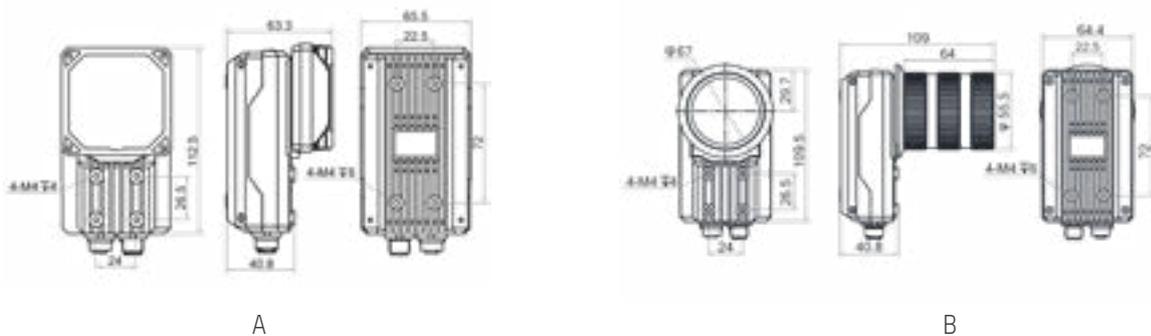• CE, FCC, KC certification.

Specifications

Model	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/color
MV-SC2004EM(Mini)	Existence: Pattern existence, spot existence Count: Pattern count, spot count Measurement: Brightness average value, contrast measurement	6.9 μm	1/2.9"	704 × 540	60 fps	Mono
MV-SC2016EM(Mini)	Existence: Pattern existence, spot existence Count: Pattern count, spot count Measurement: Brightness average value, contrast measurement	3.45 μm	1/2.9"	1408 × 1024	60 fps	Mono
MV-SC2004EM	Existence: Pattern existence, spot existence Count: Pattern count, spot count Measurement: Brightness average value, contrast measurement	6.9 μm	1/2.9"	704 × 540	60 fps	Mono
MV-SC2004EC	Existence: Pattern existence, spot existence Count: Pattern count, spot count Measurement: Brightness average value, contrast measurement, color size Recognition: Color contrast	6.9 μm	1/2.9"	704 × 540	60 fps	Color
MV-SC2016EM	Existence: Pattern existence, spot existence Count: Pattern count, spot count Measurement: Brightness average value, contrast measuremen	3.45 μm	1/2.9"	1408 × 1024	60 fps	Mono
MV-SC2016EC	Existence: Pattern existence, spot existence Count: Pattern count, spot count Measurement: Brightness average value, contrast measurement, color size Recognition: Color contrast	3.45 μm	1/2.9"	1408 × 1024	60 fps	Color

Dimension
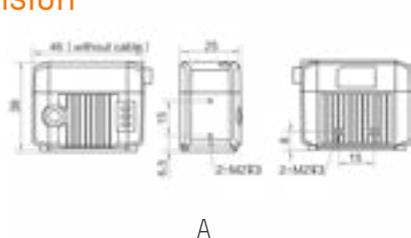
A
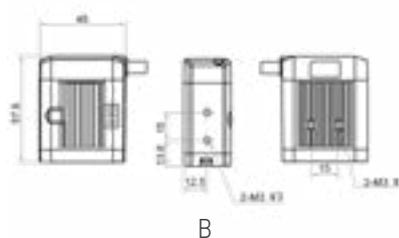
B   Unit:mm

Data Interface	Power Supply	Max. power consumption	Lens mount	Focal length	Lens cap	Light source	Working temperature	Dimension	Label
Fast Ethernet	12~24 VDC	7.5 W@24 VDC	M10	6.72 mm	Transparent	White	0~50°C	46 mm × 38 mm × 25 mm	A
Fast Ethernet	12~24 VDC	7.5 W@24 VDC	M10	6.72 mm	Transparent	White	0~50°C	46 mm × 38 mm × 25 mm	A
Fast Ethernet	12~24 VDC	22 W@24 VDC	M12	8/12.4/14.8mm	Transparent	White	0~50°C	46 mm × 57.6 mm × 25 mm	B
Fast Ethernet	12~24 VDC	22 W@24 VDC	M12	8/12.4/14.8mm	Transparent	White	0~50°C	46 mm × 57.6 mm × 25 mm	B
Fast Ethernet	12~24 VDC	22 W@24 VDC	M12	8/12.4/14.8mm	Transparent	White	0~50°C	46 mm × 57.6 mm × 25 mm	B
Fast Ethernet	12~24 VDC	22 W@24 VDC	M12	8/12.4/14.8mm	Transparent	White	0~50°C	46 mm × 57.6 mm × 25 mm	B

■ SC3000 Series Vision Sensor

Key Features

- Using embedded hardware platform, high-speed image processing can be carried out.
- Implant high-precision positioning and measurement algorithms, which can detect presence, front and back, position, size, etc.
- Rich IO interface, can access multiple input and output signals.
- Abundant status indicators, real-time grasp of equipment status, convenient for debugging and maintenance.
- The light source lamp cup is ingeniously designed to ensure uniform brightness in the lighting area.
- Support mechanical focusing, easy on-site debugging.
- Support multiple communication modes, such as serial port, TCP, UDP, FTP, EtherNet/IP, Modbus, Profinet, etc.
- CE, FCC, KC certification.

Specifications

Model	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate
MV-SC3016M	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	3.45 μm	1/2.9"	1408 × 1024	60 fps
MV-SC3016C	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: Color size, L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, color contrast, code recognition, color recognition	3.45 μm	1/2.9"	1408 × 1024	60 fps
MV-SC3050M	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	3.2 μm	1/1.7"	2368 × 1670	30 fps

Dimension

Unit:mm

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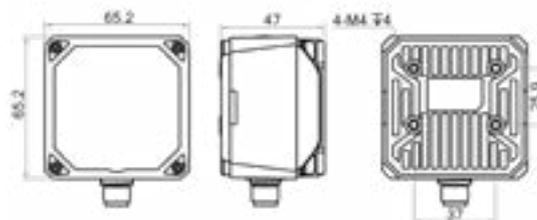
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Mono/ color	Data Interface	Power Supply	Max. power consumption	Lens mount	Focal length	Lens cap	Light source	Working temperature	Dimension
Mono	Fast Ethernet	24 VDC	48 W@24 VDC	M12	6/12.4/14.8 mm	Transparent,Polarization/ Infrared filter is optional.	White/Red/ Blue/NIR	0~50°C	65.2 mm × 65.2 mm × 47 mm
Color	Fast Ethernet	24 VDC	48 W@24 VDC	M12	6/12.4/14.8 mm	Transparent,Polarization/ Infrared filter is optional.	White/Red/ Blue/NIR	0~50°C	65.2 mm × 65.2 mm × 47 mm
Mono	Fast Ethernet	24 VDC	48 W@24 VDC	M12	6/12.4/16 mm	Transparent,Polarization/ Infrared filter is optional.	White/Red/ Blue/NIR	0~50°C	65.2 mm × 65.2 mm × 47 mm

■ SC5000 Series Smart Camera

Key Features

- Embedded high-performance visual inspection algorithm, strong performance, simple configuration.
- Support semi-automatic focusing, realize the production of multiple sizes of products corresponding to one device.
- Support large-capacity storage, and can selectively store logs and classified pictures in the device.
- A variety of light sources are optional, adapt to different production environments.
- Rich IO interface, can access multiple input and output signals.
- Abundant status indicators, real-time grasp of equipment status, convenient for debugging and maintenance.
- Support multiple communication modes, such as serial port, TCP, UDP, FTP, EtherNet/IP, Modbus, Profinet, etc.
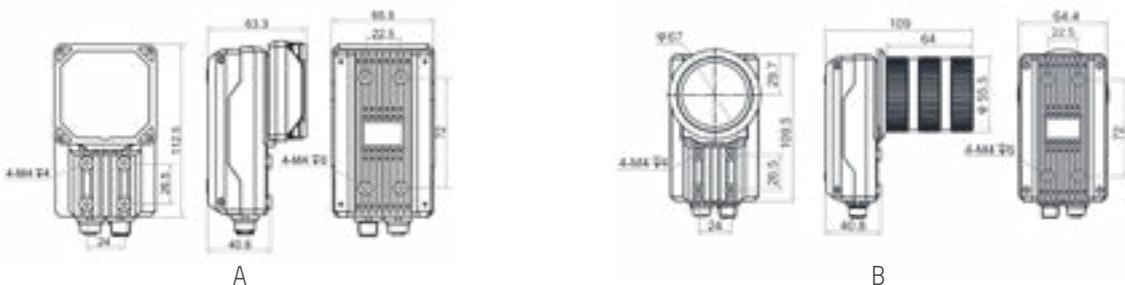- CE, FCC, KC certification.

Specifications

Model	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/color
MV-SC5016M	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	3.45 μm	1/2.9"	1408 × 1024	60 fps	Mono
MV-SC5016C	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: Color size, L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: Color recognition, color contrast, OCR, code recognition	3.45 μm	1/2.9"	1408 × 1024	60 fps	Color
MV-SC5050M	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	3.2 μm	1/1.7"	2368 × 1760	40 fps	Mono

Data interface	Power Supply	Max. power consumption	Lens mount	Focal length	Lens cap	Light source	Working temperature	Dimension	Label
Gigabit Ethernet	24 VDC	46 W@24 VDC	M12	8/12/16 mm	Transparent. Half polarization/Full polarization is optional	White/Red/Blue/NIR	0~50℃	112.5 mm × 65.5 mm × 63.3 mm	A
Gigabit Ethernet	24 VDC	46 W@24 VDC	M12	8/12/16 mm	Transparent. Half polarization/Full polarization is optional	White/Red/Blue/NIR	0~50℃	112.5 mm × 65.5 mm × 63.3 mm	A
Gigabit Ethernet	24 VDC	46 W@24 VDC	M12	8/12/16 mm	Transparent. Half polarization/Full polarization is optional	White/Red/Blue/NIR	0~50℃	112.5 mm × 65.5 mm × 63.3 mm	A

Model	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/color
MV-SC5060M	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	2.4 μm	1/1.8"	3072 × 2048	30 fps	Mono
MV-SC5060M-00C-NNN	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	2.4 μm	1/1.8"	3072 × 2048	30 fps	Mono
MV-SC5120M-00C-NNN	Count: Pattern count, spot count, edge count Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	3.2 μm	1"	4096 × 3072	24 fps	Mono
MV-SC5200M-00C-NNN	Count: Pattern count, spot count, edge count Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	2.4 μm	1"	5440 × 3648	20 fps	Mono

Dimension

A

B

Unit:mm

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Data interface	Power Supply	Max. power consumption	Lens mount	Focal length	Lens cap	Light source	Working temperature	Dimension	Label
Gigabit Ethernet	24 VDC	20 W@24 VDC	M12	8/12 mm	Transparent. Half polarization/Full polarization is optional	White/Red/ Blue/NIR	0~50℃	112.5 mm × 65.5 mm × 63.3 mm	A
Gigabit Ethernet	24 VDC	7.5 W@24 VDC	C	/	Transparent	Not included	0~50℃	109.5 mm × 64.4 mm × 109 mm	B
Gigabit Ethernet	24 VDC	7.5 W@24 VDC	C	/	Transparent	Not included	0~50℃	109.5 mm × 64.4 mm × 109 m	B
Gigabit Ethernet	24 VDC	7.5 W@24 VDC	C	/	Transparent	Not included	0~50℃	109.5 mm × 64.4 mm × 109 mm	B

■ SC7000P Series Smart Camera

Key Features

- Built-in vision tools of deep learning to achieve character and object recognition, object sorting, etc.
- Support semi-automatic focusing to realize the production of products in multiple sizes with one equipment.
- Mass storage supported, selectively store device logs and classified pictures.
- A variety of light sources are available for selection to adapt to different production environments.
- Rich IO interfaces provide access for multiple input and output signals.
- Multiple LED indicators indicating realtime status for debugging and maintenance.
- Support multiple communication modes, such as serial port, TCP, UDP, FTP, EtherNet/IP, Modbus, Profinet, etc.
- CE, FCC, KC certification.

Specifications

Model	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/color
MV-SC7016PM	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition, DL classification, DL object detection	3.45 μm	1/2.9"	1408 × 1024	60 fps	Mono
MV-SC7016PC	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, character comparison, calculator Measurement: Color size, L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: Color recognition, color contrast, OCR, code recognition, DL classification, DL object detection	3.45 μm	1/2.9"	1408 × 1024	60 fps	Color
MV-SC7050PM	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition, DL classification, DL object detection	3.2 μm	1/1.7"	2368 × 1760	40 fps	Mono

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Data interface	Power Supply	Max. power consumption	Lens mount	Focal length	Lens cap	Light source	Working temperature	Dimension	Label
Gigabit Ethernet	24 VDC	46 W@24 VDC	M12	8/12/16 mm	Transparent. Half polarization/Full polarization is optional	White	0~50°C	112.5 mm × 65.5 mm × 63.3 mm	A
Gigabit Ethernet	24 VDC	46 W@24 VDC	M12	8/12/16 mm	Transparent. Half polarization/Full polarization is optional	White	0~50°C	112.5 mm × 65.5 mm × 63.3 mm	A
Gigabit Ethernet	24 VDC	46 W@24 VDC	M12	8/12/16 mm	Transparent. Half polarization/Full polarization is optional	White/Red/ Blue/NIR	0~50°C	112.5 mm × 65.5 mm × 63.3 mm	A

Model	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/color
MV-SC7060PM	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition, DL classification, DL object detection	2.4 µm	1/1.8"	3072 × 2048	30 fps	Mono
MV-SC7060PM-00C-NNN	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition, DL classification, DL object detection	2.4 µm	1/1.8"	3072 × 2048	30 fps	Mono
MV-SC7120PM-00C-NNN	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition, DL classification, DL object detection	3.2 µm	1"	4096 × 3072	24 fps	Mono
MV-SC7200PM-00C-NNN	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition, DL classification, DL object detection	2.4 µm	1"	5440 × 3648	20 fps	Mono

Dimension

A

B

Unit:mm

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Data interface	Power Supply	Max. power consumption	Lens mount	Focal length	Lens cap	Light source	Working temperature	Dimension	Label
Gigabit Ethernet	24 VDC	20 W@24 VDC	M12	8/12 mm	Transparent. Half polarization/Full polarization is optional	White/Red/Blue/NIR	0~50°C	112.5 mm × 65.5 mm × 63.3 mm	A
Gigabit Ethernet	24 VDC	7.5 W@24 VDC	C	/	Transparent	Not included	0~50°C	109.5 mm × 64.4 mm × 109 mm	B
Gigabit Ethernet	24 VDC	7.5 W@24 VDC	C	/	Transparent	Not included	0~50°C	109.5 mm × 64.4 mm × 109 m	B
Gigabit Ethernet	24 VDC	7.5 W@24 VDC	C	/	Transparent	Not included	0~50°C	109.5 mm × 64.4 mm × 109 mm	B

Smart Code Reader

■ ID2000 Series Smart Code Reader

Key Features

- Ultra-small structure, suitable for various types of machines and compact workstations.
- Support reading multiple codes, such as Code 39, Code 93, Code 128, CodaBar, EAN, ITF25, QR, DM, etc.
- Design multi-color LED light source, adopt asymmetrical arrangement, and cover more evenly.
- Built-in LED sight, clearly indicating the field of view, quick installation and adjustment.
- Front waterproof debugging button,and support external hands-on trigger.
- Abundant IO interface and direct plug-in power interface, convenient for wiring.

Specifications

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Client software	Data interface	Power Supply
MV-ID2004M-06S-xBN	1/2.9"	6.9 μm	704 × 540	60 fps	41 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2004M-06S-xBN-U	1/2.9"	6.9 μm	704 × 540	60 fps	38 codes/sec	IDMVS	USB2.0	5 VDC,USB3.0
MV-ID2004M-16T	1/2.9"	6.9 μm	704 × 540	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2010M-05M-WLR	1/4"	3 μm	1280 × 800	50 fps	34 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2010M-05M-WLR-U	1/4"	3 μm	1280 × 800	50 fps	32 codes/sec	IDMVS	USB2.0	5 VDC,USB3.0
MV-ID2013M-06S-xBy	1/2.7"	4 μm	1280 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2013M-16S-RBN	1/2.7"	4 μm	1280 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2013M-25S-RBN	1/2.7"	4 μm	1280 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2013M-00C-NNN	1/2.7"	4 μm	1280 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2013EM-05-xBy	1/4"	2.7 μm	1280 × 1024	50 fps	30 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2013EM-05-xBy-U	1/4"	2.7 μm	1280 × 1024	50 fps	30 codes/sec	IDMVS	USB2.0	5 VDC,USB3.0
MV-ID2013EM-05N-xBy	1/4"	2.7 μm	1280 × 1024	50 fps	30 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2013EM-05N-xBy-U	1/4"	2.7 μm	1280 × 1024	50 fps	30 codes/sec	IDMVS	USB2.0	5 VDC,USB3.0
MV-ID2013EM-05H-xBy	1/4"	2.7 μm	1280 × 1024	50 fps	30 codes/sec	IDMVS	USB2.0	5 VDC,USB2.0

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Max. power consumption	Focal Length	Working/Focus distance	Light source	Aiming system	Working temperature	Dimension	Label
10.6 W@24 VDC	6.72 mm	40~120 mm, adjusting focus manually supported	Red/Blue/White	Orange LED	0~50°C	46 mm × 38 mm × 25 mm	A
4.6 W@5 VDC	6.72 mm	40~120 mm, adjusting focus manually supported	Red/Blue/White	Green LED	0~50°C	46 mm × 38 mm × 25 mm	A
11 W@12 VDC	16 mm	100~400 mm	Red	Orange LED	0~50°C	46 mm × 40 mm × 25 mm	C
6.24 W@24 VDC	5 mm	110 mm	White	Cross laser	0~50°C	46 mm × 38 mm × 25 mm	B
4.4 W@5 VDC	5 mm	110 mm	White	Cross laser	0~50°C	46 mm × 38 mm × 25 mm	B
10.6 W@24 VDC	6.72 mm	40~120 mm, adjusting focus manually supported	Red/Blue/White	Green LED	0~50°C	46 mm × 38 mm × 25 mm	A
24 W@12 VDC	16 mm	105~150 mm, adjusting focus manually supported	Red	/	0~50°C	46 mm × 25 mm × 57.6 mm	E
24 W@12 VDC	25 mm	170~200 mm, adjusting focus manually supported	Red	/	0~50°C	46 mm × 25 mm × 57.6 mm	E
6 W@12 VDC	/	/	/	/	0~50°C	29 mm × 29 mm × 42 mm	F
3.5 W@12 VDC	4.7 mm	120 mm	Red/White	Green LED	0~50°C	45 mm × 43 mm × 25 mm	D
2.5 W@5 VDC	4.7 mm	120 mm	Red/White	Green LED	0~50°C	45 mm × 43 mm × 25 mm	D
3.5 W@12 VDC	4.7 mm	70 mm	Red/White	Green LED	0~50°C	45 mm × 43 mm × 25 mm	D
2.5 W@5 VDC	4.7 mm	70 mm	Red/White	Green LED	0~50°C	45 mm × 43 mm × 25 mm	D
2.5 W@5 VDC	4.7 mm	40 mm	Red/White	Green LED	0~50°C	45 mm × 43 mm × 25 mm	D

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Client software	Data interface	Power Supply
MV-ID2013EM-05H-xBy-U	1/4"	2.7 μm	1280 × 1024	50 fps	30 codes/sec	IDMVS	USB2.0	5 VDC,USB2.0
MV-ID2016M-06S-xBN	1/2.9"	3.45 μm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2016M-06S-xBN-U	1/2.9"	3.45 μm	1408 × 1024	60 fps	45 codes/sec	IDMVS	USB2.0	5 VDC,USB3.0
MV-ID2016M-16T	1/2.9"	3.45 μm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2016M-16S-RBN	1/2.9"	3.45 μm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2016M-25S-RBN	1/2.9"	3.45 μm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC
MV-ID2016M-00C-NNN	1/2.9"	3.45 μm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	12~24 VDC

Notice: x products with different light source
y represents polarization or not

Dimension
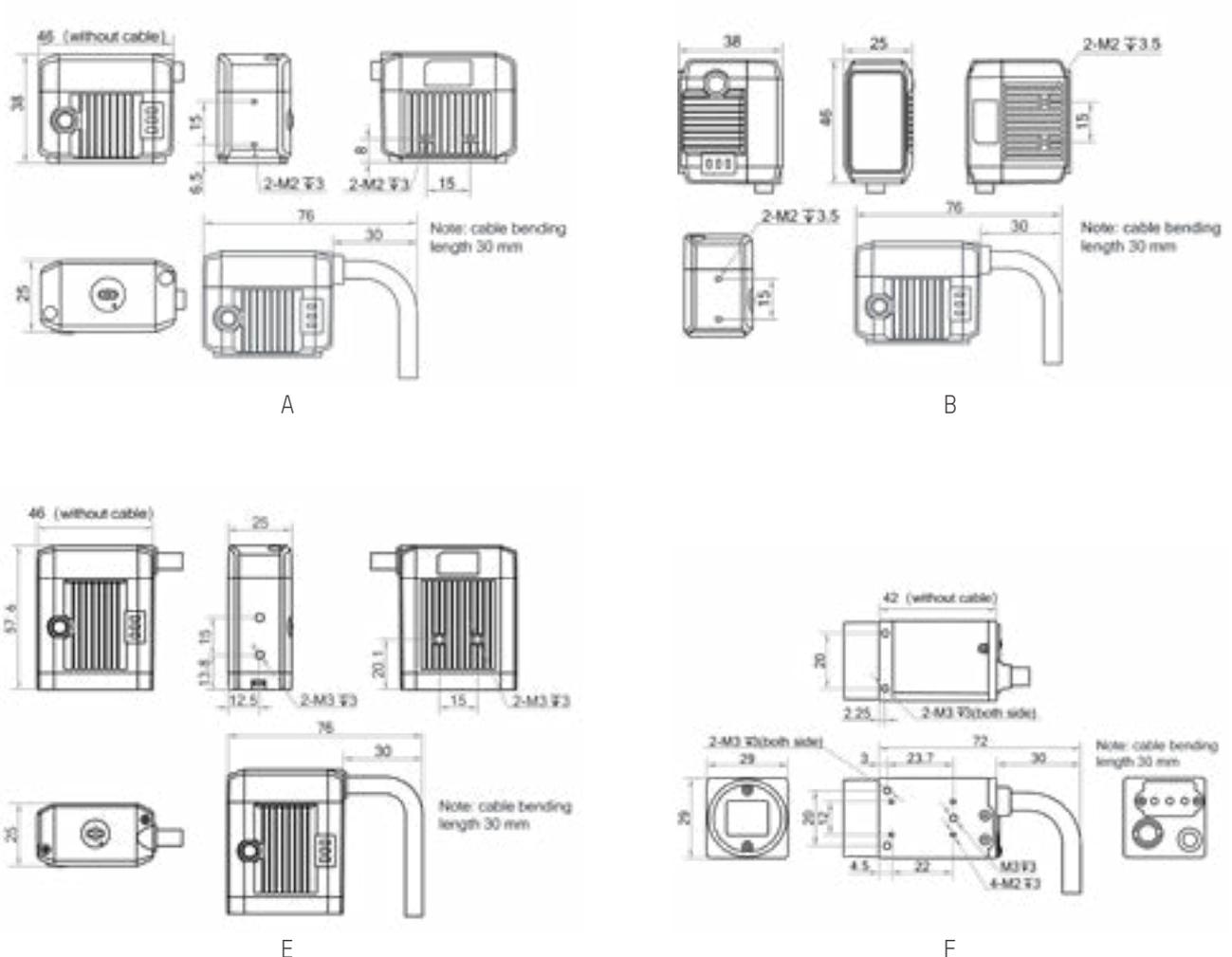
A

B

E

F

Unit:mm

Max. power consumption	Focal Length	Working/Focus distance	Light source	Aiming system	Working temperature	Dimension	Label
2.5 W@5 VDC	4.7 mm	40 mm	Red/White	Green LED	0 ~ 50°C	45 mm × 43 mm × 25 mm	D
10.6 W@24 VDC	6.72 mm	40~120 mm, adjusting focus manually supported	Red/Blue/White	Green LED	0~50°C	46 mm × 38 mm × 25 mm	A
4.6 W@5 VDC	6.72 mm	40~120 mm, adjusting focus manually supported	Red/Blue/White	Green LED	0~50°C	46 mm × 38 mm × 25 mm	A
11 W@12 VDC	16 mm	100~400 mm	Red	Orange LED	0~50°C	46 mm × 40 mm × 25 mm	C
24 W@12 VDC	16 mm	105~150 mm, adjusting focus manually supported	Red	/	0~50°C	46 mm × 25 mm × 57.6 mm	E
24 W@12 VDC	25 mm	170~200 mm, adjusting focus manually supported	Red	/	0~50°C	46 mm × 25 mm × 57.6 mm	E
6 W@12 VDC	/	/	/	/	0~50°C	29 mm × 29 mm × 42 mm	F

C

D
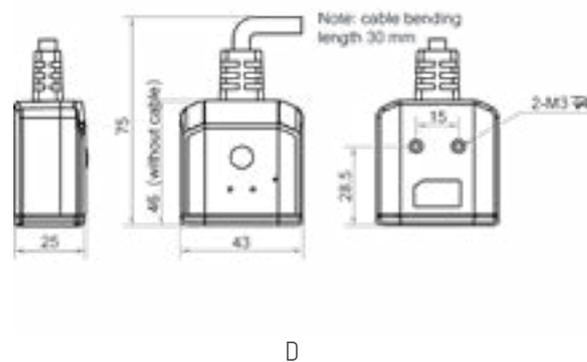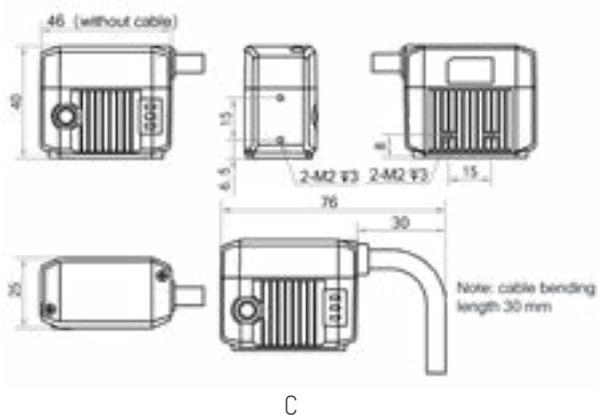
ID3000 Series Smart Code Reader

Key Features

- Excellent Sensor, support high-speed acquisition rate with high-quality images.
- Support reading multiple codes, such as Code 39, Code 93, Code 128, CodaBar, EAN, ITF25, QR, DM, etc.
- Adopt multiple IO interfaces for input and output signals.
- Ring indicator light on the top for quick observation of working status.
- External waterproof debugging button, support external manual trigger and one-key settings.
- Bilateral side waistline result indicator, multi-angle visible OK/NG status in code reading.
- Modular light source design, controllable branch and convenient replacement.
- IP67 protection, cope with harsh industrial application environment.

Specifications

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Client software	Data interface	Power Supply	Max. power consumption
MV-ID3013PM	1/2.7"	4 µm	1280 × 1024	60 fps	84 codes/sec	IDMVS	Fast Ethernet	24 VDC	20 W@24 VDC
MV-ID3016PM	1/2.9"	3.45 µm	1408 × 1024	60 fps	84 codes/sec	IDMVS	Fast Ethernet	24 VCD	20 W@24 VDC
MV-ID3050PM	1/1.7"	3.2 µm	2368 × 1760	30 fps	60 codes/sec	IDMVS	Fast Ethernet	24 VDC	47.5 W@24 VDC

Dimension

A

B

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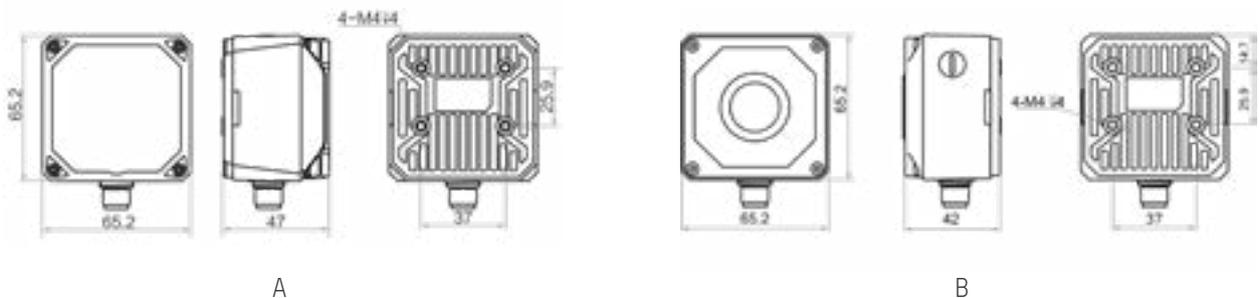
Focal Length	Lens mount	Lens cap	Light source	Working temperature	Dimension	Label
6/12/14.8 mm	M12, mechanical autofocus	Half polarized. Polarized/Transparent is optional.	White.Red/blue/IR is optional.	0~50℃	65.2 mm × 65.2 mm × 47 mm	A
6/12/14.8 mm	M12, manual focus	Transparent. Polarization is optional.	Spotlight white. Spotlight red/ blue/IR, and wide-angle white/ red/blue is is optional.	0~50℃	65.2 mm × 65.2 mm × 42 mm	B
	M12, mechanical autofocus				65.2 mm × 65.2 mm × 42 mm	C
8/12/16/25 mm	M12, mechanical autofocus	Half polarized. Polarized/Transparent is optional.	White.Red/blue/IR is optional.	0~50℃	65.2 mm × 65.2 mm × 47 mm	A
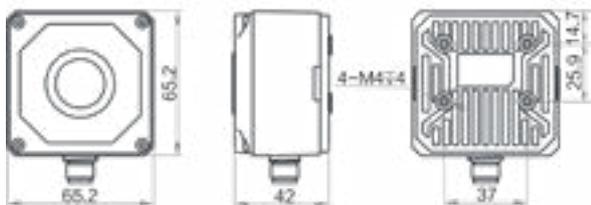
C   Unit:mm

ID5000 Series Smart Code Reader

Key Features

- Select 4.9MP-20MP high-performance sensor, high-speed image data acquisition and excellent image quality.
- Support reading multiple codes, such as Code 39, Code 93, Code 128, CodaBar, EAN, ITF25, QR, DM,PDF417, etc.
- Built-in deep learning code reading algorithm. Adapt to a variety of complex working conditions with robustness.
- Optional mechanical focus lens, auto-focusing and easy debugging.
- Support digital scoring of coding level.
- Multifunctional indicator on the top. Support customization and quickly observe the working status.
- Support multiple communication modes, such as TCP/IP, Serial, FTP, PROFINET, Ethernet/IP, etc.

Specifications

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Client software	Data interface	Power Supply	Max. power consumption
MV-ID5050M-xxS-WBN	1/1.7"	3.2 μm	2368 × 1760	40 fps	90 codes/sec	IDMVS	Gigabit Ethernet	24 VDC	60 W@24 VDC
MV-ID5060M-xxS-WBN	1/1.8"	2.4 μm	3072 × 2048	30 fps	90 codes/sec	IDMVS	Gigabit Ethernet	24 VDC	20 W@24 VDC
MV-ID5060M-00C-WBN	1/1.8"	2.4 μm	3072 × 2048	30 fps	90 codes/sec	IDMVS	Gigabit Ethernet	24 VDC	20 W@24 VDC
MV-ID5060M-00C-NNN	1/1.8"	2.4 μm	3072 × 2048	30 fps	90 codes/sec	IDMVS	Gigabit Ethernet	24 VDC	20 W@24 VDC
MV-ID5120M-00C-NNN	1"	3.2 μm	4096 × 3072	28 fps	84 codes/sec	IDMVS	Gigabit Ethernet	12~24 VDC	12 W@24 VDC
MV-ID5200M-00C-NNN	1"	2.4 μm	5440 × 3648	20 fps	36 codes/sec	IDMVS	Gigabit Ethernet	12~24 VDC	12 W@24 VDC

Notice: xx products with different focal Lengths

Dimension

A

B

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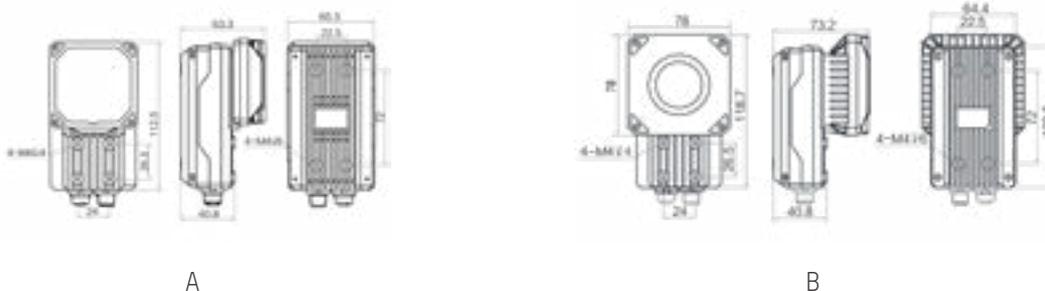
Focal Length	Lens mount	Lens cap	Light source	Working temperature	Dimension	Label
8/12/16/25 mm	M12	Half polarized.Polarized/ Transparent is optional.	White/Red/Blue/NIR	0~50°C	112.5 mm × 65.5 mm × 63.3 mm	A
8/12/16/25 mm	M12	Transparent.Polarization is optional.	White/Red/Blue/NIR	0~50°C	118.7 mm × 78 mm × 73.2 mm	B
/	C	Transparent.Polarization is optional.	White/Red/Blue/NIR	0~50°C	118.7 mm × 78 mm × 92.7 mm	C
/	C	Transparent	Not included	0~50°C	109.5 mm × 64.4 mm × 109 mm	D
/	C	Included	Not included	0~50°C	109.5 mm × 64.4 mm × 109 mm	D
/	C	Transparent.Polarization is optional.	Not included	0~50°C	109.5 mm × 64.4 mm × 109 mm	D

C   D   Unit:mm

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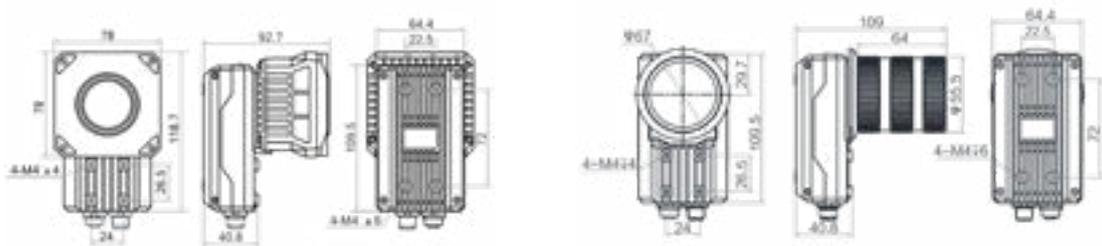
■ ID6000 Series Logistics Code Reader

Key Features

- Provide 20MP and 12MP ultra high resolution, covering a enormous field of view.
- Provide 12MP high-resolution global shutter, adapt to high-speed scenes and provide 4K horizontal resolution.
- Provide logistics-specific deep learning barcode reading algorithms to deal with various types of distortion, wrinkles, dirt, and broken barcodes in logistics scenarios.
- Support multiple barcode recognition and waybill cutout.
- Gigabit transmission, support original image output and archive.
- Support networking, construct multi-code reader system through codemaster.

Specifications

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Client software	Data interface	Power Supply
MV-ID6089M-00C-NNG	1"	3.45 µm	4096 × 2160	30 fps	90 codes/sec	IDMVS	Gigabit Ethernet	12~24 VDC
MV-ID6200EM-00C-NNG	1"	2.4 µm	5440 × 3648	10 fps	30 codes/sec	IDMVS	Gigabit Ethernet	12~24 VDC
MV-ID6200M-00C-NNG	1"	2.4 µm	5440 × 3648	20 fps	60 codes/sec	IDMVS	Gigabit Ethernet	12~24 VDC

Dimension
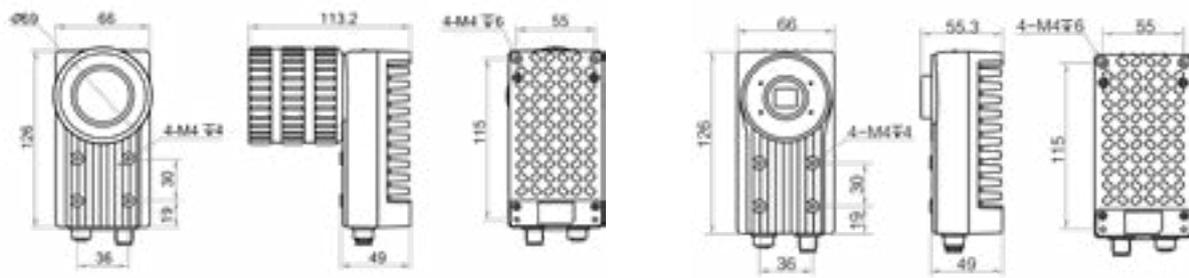
A

B

Unit:mm

Max. power consumption	Lens mount	Lens cap	Light source	Working temperature	Dimension	Label
12 W@24 VDC	C	Included	Not included	0~50°C	126 mm x 66 mm x 113.2 mm	A
12 W@24 VDC	C	Not included	Not included	0~50°C	126 mm × 66 mm × 55.3 mm	B
12 W@24 VDC	C	Included	Not included	0~50°C	126 mm × 66 mm × 113.2 mm	A

■ ID7000 Series Logistics Code Reader

Key Features

- Adopt high-quality linescan sensor to achieve coverage of more than 1.4m in narrow visual space.
- Built-in deep learning code reading algorithm to efficiently read bar codes of various types.
- Support real-time variable speed adjustment, support the whole image stitch transmission.
- Rich I0 functions, support encoder, RS232 serial transmission protocol.
- Optional bottom reflectors of different lengths with reflector cleaning mechanism can be added.
- Support SmartSDK, TCP, UDP, Serial, FTP, HTTP and other communication protocols.

Specifications

Model	Max. line frequency	Resolution	Client software	Data interface	Power Supply	Max. power consumption
MV-ID7080EM-35F-WHA	15 kHz	8K	IDMVS	Gigabit Ethernet	48 VDC	180 W@48VDC
MV-ID7080PM-35F-WHA	20 kHz	8K	IDMVS	Gigabit Ethernet	48 VDC	180 W@48VDC

Dimension
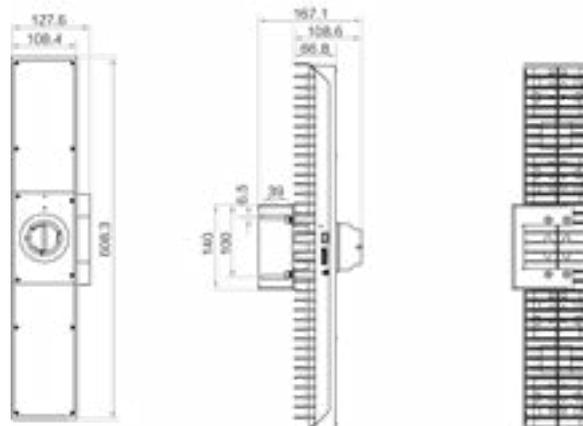
Unit:mm

Focal Length	Working distance	Field of view	Lens mount	Working temperature	Dimension
35 mm	1000 mm	1000 mm	F	0~50℃	608.3 mm × 127.6 mm × 167.1 mm
35 mm	1000 mm	1200 mm	F	0~50℃	608.3 mm × 127.6 mm × 167.1 mm

PD Series Logistics Code Reader

Key Features

- Integrated structure design of camera lens and light source, high integration, ready to use out of the box, convenient installation and debugging.
- Built-in deep learning code reading algorithm, efficient reading of various logistics barcodes.
- Realize the collection and fusion of images and data; provide local storage and upload, traceability basis.
- Adopt professional optical design, high energy utilization rate, stable performance and long service life of lamp beads.
- Adjustable light source brightness, strong environmental adaptability.
- Seamless docking of common express logistics management system to provide real-time effective data for logistics and production enterprises.

Specifications

Model	Type	Max. frame rate	Resolution	Data interface	Power Supply	Max. power consumption	Focal Length
MV-PD010003-06M-12C	Standard type	15 fps	3072 × 2048	Gigabit Ethernet	24 VDC	20 W@24 VDC	12 mm
MV-PD010003-12M-16C	Standard type	5.5 fps	4024 × 3036	Gigabit Ethernet	24 VDC	44 W@24 VDC	16 mm

Dimension

A   B   Unit:mm

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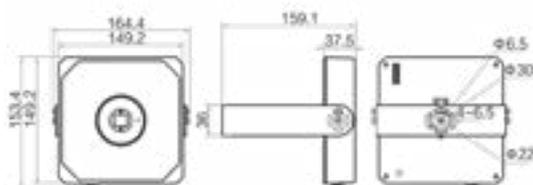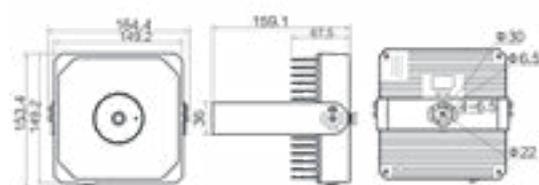
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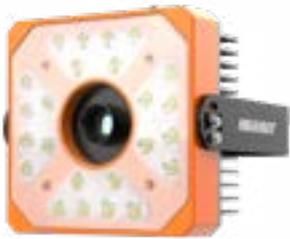
Working distance	Field of view	Depth of field	Uniformity	Luminous flux	Color temperature	Working temperature	Dimension	Label
900 mm	550 mm × 340 mm	500 mm	0.53	2500 lm	5700 K	0~50℃	153.4 mm × 164.4 mm × 159.1 mm	A
1550 mm	730 mm × 550 mm	650 mm	0.56	5900 lm	6500 K	0~50℃	153.4 mm × 164.4 mm × 159.1 mm	B

IDH Series Handheld Smart Code Reader

Key Features

• The self-developed bar code recognition algorithm, efficiently read the mainstream code types.
• Strong robustness, can effectively deal with the situations of dirty bar codes, defects, low contrast and the like.
• Visual laser or LED aiming, clear indication of target field of view, quick installation and adjustment.
• Reliable and durable structural design.

Specifications

Model	Sensor size	Pixel size	Resolution	Frame rate	Min. accuracy	Client software	Data interface	Power Supply
MV-IDH3013-05S-R1L *	1/4"	2.7 µm	1280 × 1024	50 fps	4 mil	IDMVS	Fast Ethernet, RS-232,DC terminal	12 ~ 24 VDC
MV-IDH3013-05S-R1U *	1/4"	2.7 µm	1280 × 1024	50 fps	4 mil	IDMVS	USB2.0,DC terminal	USB2.0:5 VDC DC terminal:12 ~ 24 VDC
MV-IDH3013-05N-R1L *	1/4"	2.7 µm	1280 × 1024	50 fps	3 mil	IDMVS	Fast Ethernet, RS-232,DC terminal	12 ~ 24 VDC
MV-IDH3013-05N-R1U *	1/4"	2.7 µm	1280 × 1024	50 fps	3 mil	IDMVS	USB2.0,DC terminal	USB2.0:5 VDC DC terminal:12 ~ 24 VDC
MV-IDH3013B-05S-R1L *	1/4"	2.7 µm	1280 × 1024	50 fps	4 mil	IDMVS	Bluetooth, Fast Ethernet, RS-232,DC terminal	12 ~ 24 VDC
MV-IDH3013B-05S-R1U *	1/4"	2.7 µm	1280 × 1024	50 fps	4 mil	IDMVS	Bluetooth,USB2.0, DC terminal	USB2.0:5 VDC DC terminal:12 ~ 24 VDC
MV-IDH3013B-05N-R1L *	1/4"	2.7 µm	1280 × 800	50 fps	3 mil	IDMVS	Bluetooth, Fast Ethernet, RS-232,DC terminal	12 ~ 24 VDC
MV-IDH3013B-05N-R1U *	1/4"	2.7 µm	1280 × 800	50 fps	3 mil	IDMVS	Bluetooth,USB2.0, DC terminal	USB2.0:5 VDC DC terminal:12 ~ 24 VDC
MV-IDH7010P-07-xR-L	1/4"	3 µm	1280 × 800	50 fps	3 mil	IDMVS	Fast Ethernet, RS-232,DC terminal	12 ~ 24 VDC
MV-IDH7010P-07-xR-U	1/4"	3 µm	1280 × 800	50 fps	3 mil	IDMVS	USB2.0,DC terminal	USB2.0:5 VDC DC terminal:12 ~ 24 VDC
MV-IDH7010P-07-xR-LP	1/4"	3 µm	1280 × 800	50 fps	3 mil	IDMVS	Fast Ethernet(PoE)	12 ~ 24 VDC

Max. power consumption	Focal length	Lens mount	Light source	Aiming	Working temperature	Dimension	Label
6 W@24 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.6 mm × 229 mm	A
USB2.0:4.6 W@5 VDC DC terminal:6 W@24 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.6 mm × 229 mm	A
6 W@24 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.6 mm × 229 mm	A
USB2.0:4.6 W@5 VDC DC terminal:6 W@24 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.6 mm × 229 mm	A
Standby mode:0.77 W@ 3.8 VDC Working mode:6.4 W @ 3.8 VDC Sleep mode:0.2 W@ 3.8 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.5 mm × 179.5 mm	B
Standby mode:0.77 W@ 3.8 VDC Working mode:6.4 W @ 3.8 VDC Sleep mode:0.2 W@ 3.8 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.5 mm × 179.5 mm	B
Standby mode:0.77 W@ 3.8 VDC Working mode:6.4 W @ 3.8 VDC Sleep mode:0.2 W@ 3.8 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.5 mm × 179.5 mm	B
Standby mode:0.77 W@ 3.8 VDC Working mode:6.4 W @ 3.8 VDC Sleep mode:0.2 W@ 3.8 VDC	4.7 mm	M5.8	Red LED	Cross laser aiming	-20~50°C	74.4 mm × 86.5 mm × 179.5 mm	B
6 W@24 VDC	6.7 mm	M5.8	Direct: white LED; Diffused reflection: red LED	Cross laser aiming	-20~50°C	73.4 mm × 104 mm × 229.5 mm	C
USB2.0:4.6 W@5 VDC DC terminal:6 W@24 VDC	6.7 mm	M5.8	Direct: white LED; Diffused reflection: red LED	Cross laser aiming	-20~50°C	73.4 mm × 104 mm × 229.5 mm	C
6 W@24 VDC	6.7 mm	M5.8	Direct: white LED; Diffused reflection: red LED	Cross laser aiming	-20~50°C	73.4 mm × 104 mm × 229.5 mm	C

Model	Sensor size	Pixel size	Resolution	Frame rate	Min. accuracy	Client software	Data interface	Power Supply
MV-IDH7010B-07-xR-L	1/4"	3 μm	1280 × 800	50 fps	3 mil	IDMVS	Fast Ethernet, RS-232,DC terminal	USB2.0:5 VDC DC terminal:12 ~ 24 VDC
MV-IDH7010B-07-xR-U	1/4"	3 μm	1280 × 800	50 fps	3 mil	IDMVS	USB2.0,DC terminal	12 ~ 24 VDC
MV-IDH7010B-07-xR-LP *	1/4"	3 μm	1280 × 800	50 fps	3 mil	IDMVS	Fast Ethernet(PoE)	USB2.0:5 VDC DC terminal:12 ~ 24 VDC

Notice: * will be released soon.
          x=S denotes the standard focus, x=N denotes the near focus

Dimension
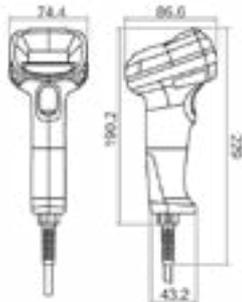
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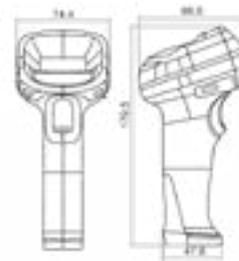
B

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Max. power consumption	Focal length	Lens mount	Light source	Aiming	Working temperature	Dimension	Label
Standby mode:1.1 W@ 3.8 VDC Working mode:6.4 W @ 3.8 VDC Sleep mode:0.8 W@ 3.8 VDC	6.7 mm	M5.8	Direct: white LED; Diffused reflection: red LED	Cross laser aiming	–20~50℃	73.4 mm × 104 mm × 215.2 mm	D
Standby mode:1.1 W@ 3.8 VDC Working mode:6.4 W @ 3.8 VDC Sleep mode:0.8 W@ 3.8 VDC	6.7 mm	M5.8	Direct: white LED; Diffused reflection: red LED	Cross laser aiming	–20~50℃	73.4 mm × 104 mm × 215.2 mm	D
Standby mode:1.1 W@ 3.8 VDC Working mode:6.4 W @ 3.8 VDC Sleep mode:0.8 W@ 3.8 VDC	6.7 mm	M5.8	Direct: white LED; Diffused reflection: red LED	Cross laser aiming	–20~50℃	73.4 mm × 104 mm × 215.2 mm	D

C

D

Unit:mm

3D Camera

▪ Line Laser 3D Camera

Key Features

- Built-in wide dynamic image processing algorithm and high-precision measurement algorithm.
- Optimized efficiency up to 3m/s.
- High power laser module, wider dynamic range.
- Narrow band filter, stronger anti-interference ability.
- Precise exposure synchronization, stable performance.
- Support the output of volume (length, width, height and integral volume), point cloud and feature coordinate.

Specifications

Model	Near FOV	Far FOV	Clearance distance (CD)	Measurement range (MR)	Detection accuracy	Inspection speed	Scan frame rate	Data type
MV-DL1617-05L(metrological certification package)	1000 mm	2235 mm	750 mm	1000 mm	± 5 mm	1.5 m/s @ ± 5 mm	200 Hz @1 m³	Point cloud data, length, width, height
MV-DL2125-04H-H	1000 mm	2600 mm	700 mm	1000 mm	±5 mm (regular object)	3 m/s @ ±5 mm	600 fps @1 m³ measurement range	Point cloud data, length/width/height, integral volume, top coordinates
MV-DL2125-04H-R *	1000 mm	2600 mm	700 mm	1000 mm	±5 mm (regular object)	3 m/s @ ±5 mm	600 fps @1 m³ measurement range	Point cloud data, length/width/height, integral volume, top coordinates

Notice: * will be released soon.

Dimension

A

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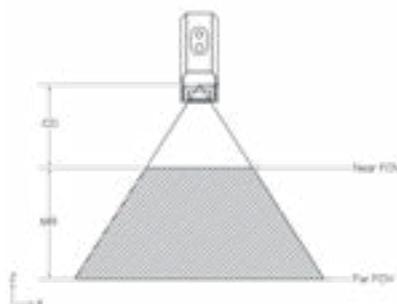
Trigger mode	Laser safety class	Data interface	Power supply	Power consumption	Working temperature	Dimension	Label
External trigger, encoder trigger	3B @200 mw	Gigabit Ethernet	12 VDC	< 7.0 W @12VDC	0~50°C	549.4 mm × 65 mm × 160 mm	A
External trigger, encoder trigger (max. 15 KHz trigger signal supported)	Class 3B	Gigabit Ethernet	12~24 VDC	< 10.0 W@12 VDC	0~45°C	354.1 mm × 65 mm × 123.4 mm	B
External trigger, encoder trigger (max. 15 KHz trigger signal supported)	Class 3B	Gigabit Ethernet	12~24 VDC	< 10.0 W@12 VDC	0~45°C	354.1 mm × 65 mm × 123.4 mm	B
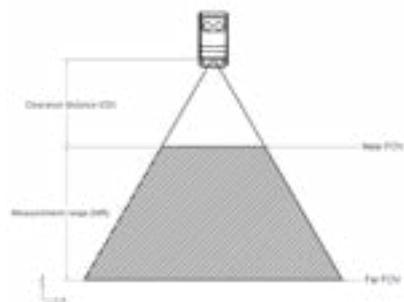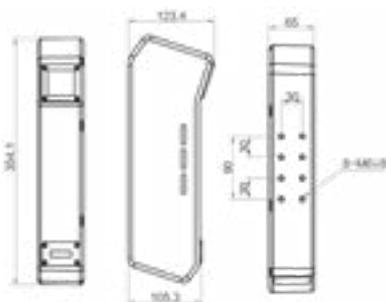
B

Unit:mm

RGB-D smart stereo camera

Key Features

- Built-in deep learning algorithm to achieve accurate target positioning and segmentation.
- High energy efficiency laser module with precise exposure synchronization, more stable performance, wider dynamic range.
- Large field of view, suitable for various industrial and logistics applications.
- Support RGB-Depth synchronisation and alignment, which eases secondary development.
- Adopt narrow-band filter, stronger anti-interference ability.
- Provide accurate intrinsic calibration, and support one-key single/multiple camera system calibration.

Specifications

Model	Near FOV	Far FOV	Clearance distance(CD)	Measurement range (MR)	Depth image detection accuracy	Color image detection accuracy
MV-DB500S	580 mm × 470 mm	2400 mm × 1800 mm	500 mm	1500 mm	X,Y: 5 mm@ 1 m; 10 mm@ 2 m Z: 5 mm@ 1 m; 10 mm@ 2 m	X,Y: 2.6 mm@ 1 m; 5.5 mm@ 2 m
MV-DB500S-S	580 mm × 470 mm	2400 mm × 1800 mm	500 mm	1500 mm	X,Y: 5 mm@ 1 m; 10 mm@ 2 m Z: 5 mm@ 1 m; 10 mm@ 2 m	X,Y: 2.6 mm@ 1 m; 5.5 mm@ 2 m
MV-DB500S-R	580 mm × 470 mm	2400 mm × 1800 mm	500 mm	1500 mm	X,Y: 5 mm@ 1 m; 10 mm@ 2 m Z: 5 mm@ 1 m; 10 mm@ 2 m	X,Y: 2.6 mm@ 1 m; 5.5 mm@ 2 m
MV-DB500S-C	580 mm × 470 mm	2400 mm × 1800 mm	500 mm	1500 mm	X,Y: 5 mm@ 1 m; 10 mm@ 2 m Z: 5 mm@ 1 m; 10 mm@ 2 m	X,Y: 2.6 mm@ 1 m; 5.5 mm@ 2 m
MV-DB500S-V *	580 mm × 470 mm	2400 mm × 1800 mm	500 mm	1500 mm	X,Y: 5 mm@ 1 m; 10 mm@ 2 m Z: 5 mm@ 1 m; 10 mm@ 2 m	X,Y: 2.6 mm@ 1 m; 5.5 mm@ 2 m

Dimension

Unit:mm

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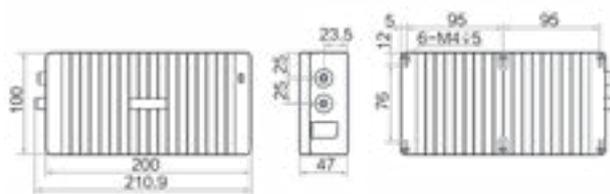
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Scan frame rate	Data type	Laser safety class	Data interface	Power supply	Power consumption	Working temperature	Dimension
Synchronized RGB-Depth output: 18 fps@1408 × 1024 30 fps@704 × 512	Original image (mono and color images), rectified image, depth image	Class 1	Gigabit Ethernet	12~24 VDC	< 9 W@24 VDC	0~45°C	200 mm × 47 mm × 100 mm
30 fps@ singulation mode	Original image (mono and color images), depth image, RGB-D image, package posture information	Class 1	Gigabit Ethernet	12~24 VDC	< 9 W@24 VDC	0~45°C	200 mm × 47 mm × 100 mm
8 fps@ grasp mode, supports HDR	Original image (mono and color images), depth image, RGB-D image, package grasping point information, instance segmentation image	Class 1	Gigabit Ethernet	12~24 VDC	< 9 W@24 VDC	0~45°C	200 mm × 47 mm × 100 mm
7 fps@EDP mode	Original image (mono and color images), RGB-D image, EDP detection result	Class 1	Gigabit Ethernet	12~24 VDC	< 9 W@24 VDC	0~45°C	200 mm × 47 mm × 100 mm
8 fps@ dimensioning mode	Original image (mono and color images),RGB-D image, instance segmentation image	Class 1	Gigabit Ethernet	12~24 VDC	< 9 W@24 VDC	0~45°C	200 mm × 47 mm × 100 mm

Vision Controller

■ VB2000 Series Vision Controller

Key Features

• On-board Intel® E3845 SoC, 1.91GHz CPU.
• 4GB DDR3L memory and onboard SSD of high reliability.
• 3 Intel GigE ports and enhanced anti-surge design to ensure the stable running of the machine vision cameras.
• Supports multiple opto-isolated inputs and outputs.
• Controls the light via light interface.
• Adopts 2 HDMI interfaces and supports independent display.
• CE, FCC, RoHS certification.

Specifications

Model	CPU	Memory	Storage	GPU	OS	HDMI
MV-VB2210-120G	Intel® Atom™ E3845	4 GB	128 GB SSD	Integrated Gen7 GPU; supports 3D image hardware acceleration; supports video decoding hardware acceleration of different formats	Windows 7/10	2
MV-VB2220-120G	Intel® Atom™ E3845	4 GB	128 GB SSD	Integrated Gen7 GPU; supports 3D image hardware acceleration; supports video decoding hardware acceleration of different formats	Windows 7/10	2

Dimension
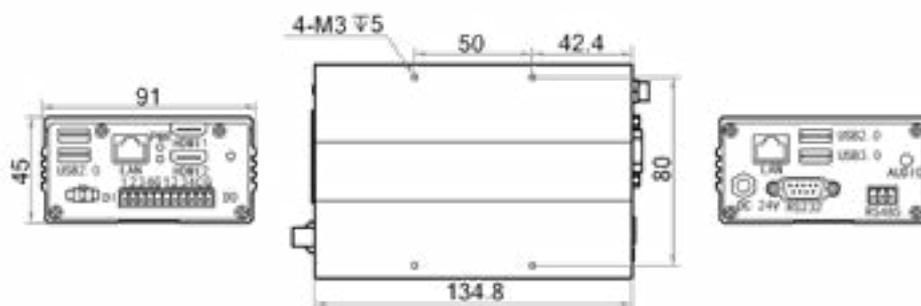
Unit:mm

Digital I/O	Light Interface	GigE	USB3.0	USB2.0(+built-in)	RS485	RS232	Power supply	Power consumption	Working temperature	Dimension
Opto-isolated input × 4, opto-isolated output × 4	1	3	1	3 + 1	1	1	24 VDC	34 W	0~50°C	134.8 mm × 91 mm × 45 mm
Opto-isolated input × 4, opto-isolated output × 4	1	3	1	3 + 1	1	1	24 VDC	26 W	0~50°C	134.8 mm × 91 mm × 45 mm

■VC2000 Series Vision Controller

Key Features

- Adopts Intel® Elkhart Lake processor to provide computing performance.
- Supports 16-channel GPIO and NPN/PNP switching for output.
- Supports 4-channel light source control for good-quality imaging.
- Adopts 4 independent GigE interfaces for high-speed and stable data transmission.
- Adopts built-in USB interface or dongle for on-site maintenance.

Specifications

Model	CPU	Memory	Storage	OS	HDMI	VGA	Digital I/O	Light Interface
MV-VC2000-128G40-NN*	Intel® Atom™ J6412	8GB	128GB SSD	Windows 10	1	1	——	——
MV-VC2040-128G40-NN*	Intel® Atom™ J6412	8GB	128GB SSD	Windows 10	1	1	Opto-isolated input × 8, opto-isolated output × 8	4
MV-VC2040-128G40-1T*	Intel® Atom™ J6412	8GB	128GB SSD+ 1T HDD	Windows 10	1	1	Opto-isolated input × 8, opto-isolated output × 8	4

Notice:* will be released soon.
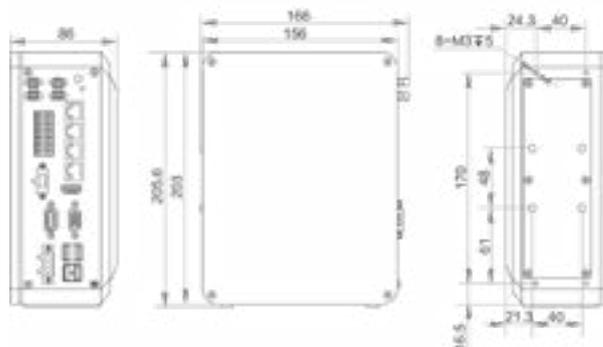
Dimension

Unit:mm

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GigE	USB3.0	USB2.0(+built-in)	RS485	RS232	Power supply	Power consumption	Working temperature
4	2	2 + 1	1	1	24 VDC	30 W	0~50°C
4	2	2+1	1	1	24 VDC	30 W	0~50°C
4	2	2+1	1	1	24 VDC	30 W	0~50°C

VC3000 Series Vision Controller

Key Features

- Adopt desktop-class Intel ® CPUs for powerful computing performance.
- Powerful expansion slot configuration to meet the expansion of common image acquisition interfaces for machine vision, with stable performance.
- Support 11-channel GPIO input and output function.
- Adopt Intel GigE network card, ensuring fast and stable data transmission; POE is available for option.
- Built-in dual USB3.0 dongle interfaces, to ease the setup and maintenance on site.
- Serial port expansion module, light soure expansion module and IO expansion module can be installed as needed.

Specifications

Model	CPU	Memory	Storage	GPU	OS	HDMI	VGA	Digital I/O
MV-VC3101P-128G60	Intel® Celeron™ G4900	8 GB	128 G SSD	Intel® HD Graphics 610	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3102P-128G60	Intel® Celeron™ G4900	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 610	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3201P-128G60	Intel® Pentium™ G5400	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 610	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3202P-128G60	Intel® Pentium™ G5400	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 610	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3301P-128G60	Intel® Core™ i3-8100	8 GB	128 G SSD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3302P-128G60	Intel® Core™ i3-8100	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3303P-128G60	Intel® Core™ i3-8100	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3304P-128G60	Intel® Core™ i3-8100	16 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8

GigE	USB3.0	USB2.0(+built-in)	Serial port	Extended interface	Power supply	Power consumption	Working temperature	Dimension
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	2+4(PoE)	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	150 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm

Model	CPU	Memory	Storage	GPU	OS	HDMI	VGA	Digital I/O
MV-VC3501P-128G60	Intel® Core™ i5-8500	8 GB	128 G SSD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3502P-128G60	Intel® Core™ i5-8500	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3503P-128G60	Intel® Core™ i5-8500	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3504P-128G60	Intel® Core™ i5-8500	16 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3701P-128G60 *	Intel® Core™ i7-8700	8 GB	128 G SSD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3702P-128G60 *	Intel® Core™ i7-8700	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3703P-128G60 *	Intel® Core™ i7-8700	8 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8
MV-VC3704P-128G60 *	Intel® Core™ i7-8700	16 GB	128 G SSD + 2T HDD	Intel® HD Graphics 630	Windows 10	1	1	Opto-isolated input × 3, Opto-isolated output × 8

Notice: * will be released soon.

Dimension

Unit:mm

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GigE	USB3.0	USB2.0(+built-in)	Serial port	Extended interface	Power supply	Power consumption	Working temperature	Dimension
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	2+4(PoE)	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	150 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	2+4(PoE)	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	150 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm
6	4	USB2.0 × 4, USB3.0 × 4, built-in USB2.0 × 1	RS-232 × 2	PCIe ×16 (× 1)	24 VDC	95 W	0~50°C	161.4 mm × 208.5 mm × 105.5 mm

Frame Grabber

Key Features

- Different interface selection, supporting various industrial camera access.
- On-board memory supports image caching for improved data reliability.
- On-board ISP functionality to reduce PC load.
- Rich I/O interfaces, integrated multiple input and output.
- Provide easy-to-use SDK, compatible with genIcam standard.
- CE, FCC, KC compliant.

Specifications

Model	Interconnect	Delivery bandwidth	Interface	Camera type supported
MV-GE2202 *	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwidth)	2 × RJ45	GigE industrial camera
MV-GE2204 *	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwidth)	4 × RJ45	GigE industrial camera
MV-GE2202P *	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwidth)	2 × RJ45	GigE industrial camera
MV-GE2204P *	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwidth)	4 × RJ45	GigE industrial camera
MV-GE1004	PCI-E gen2 × 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	4 × RJ45	GigE industrial camera
MV-GT1002 *	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	2 × RJ45	GigE/10 GigE industrial camera
MV-GT1004 *	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	4 × RJ45	GigE/10 GigE industrial camera
MV-GS1004 *	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	4 × SFP	10 GigE industrial camera
MV-GU2104 *	PCI-E gen2 x 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	USB3.0 type-A	USB industrial camera
MV-GC1102IOL *	PCI-E gen2 x 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	2 × SDR	Camera Link industrial camera
MV-GX1004	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	4 × DIN 1.0/2.3	CXP-6 connector industrial camera
MV-GY1004 *	PCI-E gen3 × 8	7800 MB/s (max. transmission bandwidth), 6700 MB/s (sustained transmission bandwidth)	4 × HD-BNC	CXP-6/CXP-12 connector industrial camera

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Camera quantity supported	Camera connection speed	Power consumption	Temperature	Dimension	Label
2 at most	10/100/1000 Mbps	Typ. 2 W	0~60°C	181 mm × 126.3 mm × 21.6 mm	A
4 at most	10/100/1000 Mbps	Typ. 3 W	0~60°C	181 mm × 126.3 mm × 21.6 mm	B
2 at most	10/100/1000 Mbps	Typ. 2 W (without PoE)	0~60°C	181 mm × 126.3 mm × 21.6 mm	C
4 at most	10/100/1000 Mbps	Typ. 3 W (without PoE)	0~60°C	181 mm × 126.3 mm × 21.6 mm	D
4 at most	1 Gbps	Typ. 10 W (without PoE)	0~60°C	181 mm × 126.3 mm × 21.6 mm	E
2 at most	10 Gbps	Typ. 19.2 W	0~60°C	126.3 mm × 181 mm × 21.4 mm	F
4 at most	10 Gbps	Typ. 24 W	0~60°C	126.3 mm × 181 mm × 21.4 mm	G
4 at most	10 Gbps	Typ. 20 W	0~60°C	181 mm × 126.3 mm × 21.6 mm	H
4 at most	Max. 5 Gbps	Typ. 6 W (without USB power supply) Typ. 24 W (with USB power supply)	0~60°C	181 mm × 126.3 mm × 21.6 mm	I
2 at most	6.8 Gbps	Typ. 10 W (without PoCL)	0~60°C	181 mm × 126.3 mm × 21.6 mm	J
4 at most	1.25/2.5/3.125/5/6.25Gbps (CXP-1/2/3/5/6)	Typ. 20 W (without PoCXP)	0~60°C	181 mm × 126.3 mm × 21.6 mm	K
2 at most	1.25/2.5/3.125/5/6.25/10/12.5Gbps (CXP-1/2/3/5/6/10/12)	Typ. 20 W (without PoCXP)	0~60°C	181 mm × 126.3 mm × 21.6 mm	L

Dimension

A

B

E

F

I

J

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C

D

G

H

K

L

Unit:mm

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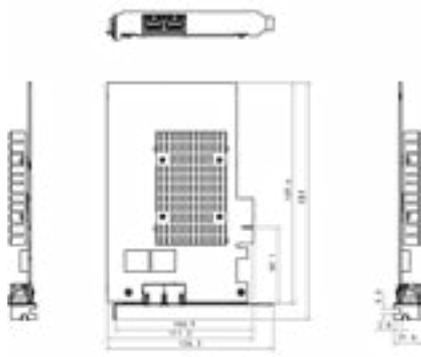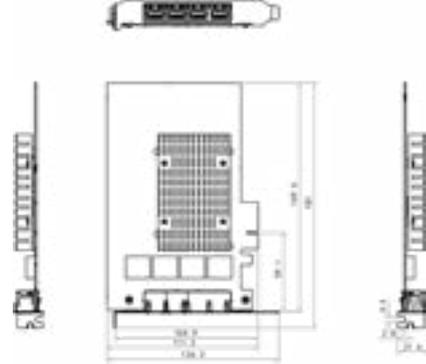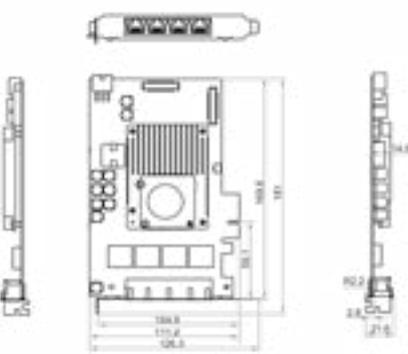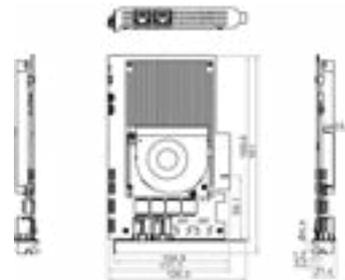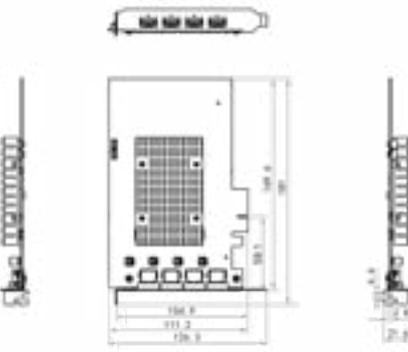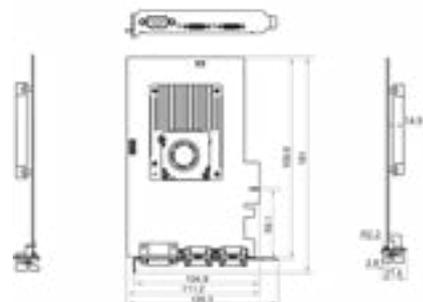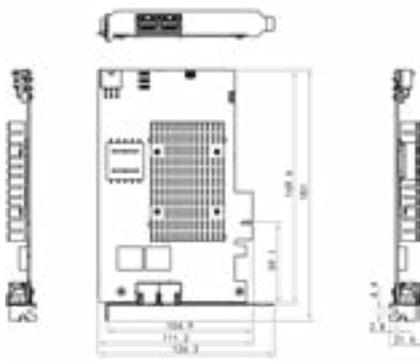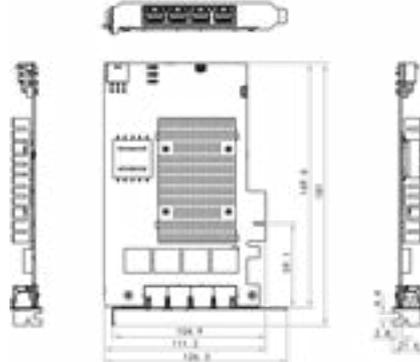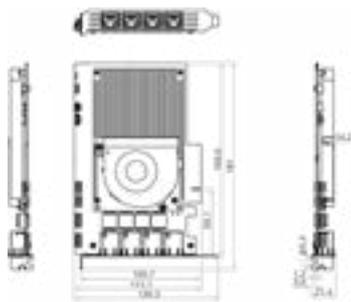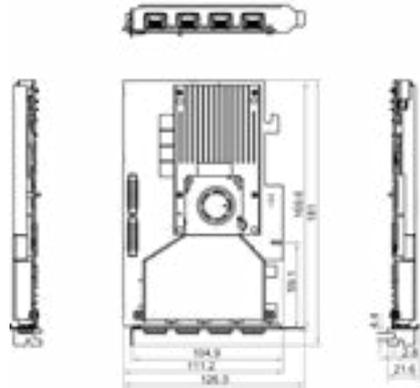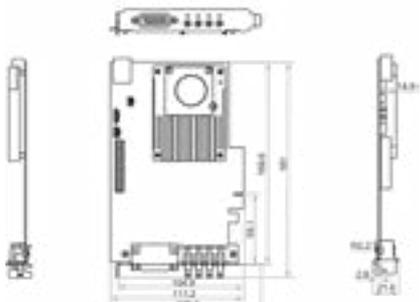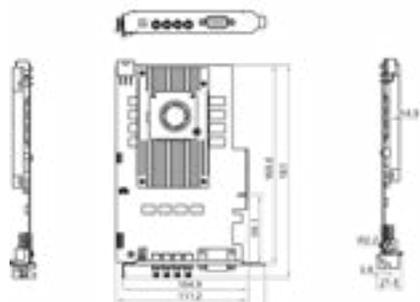
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Lens

■ HF-E Series (1/1.8" 6MP)

Key Features

- Higher image clarity and contrast ratio.
- Ultra-low distortion and higher relative illumination rate.
- Good optical performance at ultra-short working distance.
- Compact design, convenient for device integration.

Specifications

Model	Focal Length	F No.	Distortion	Field of View		
				D	H	V
MVL-HF0628M-6MPE	6 mm	F2.8~F16	-0.103%	73.49°	63.11°	44.59°
MVL-HF0828M-6MPE	8 mm	F2.8~F16	0.049%	58.50°	49.46°	34.19°
MVL-HF1228M-6MPE	12 mm	F2.8~F16	-0.005%	40.94°	34.14°	23.17°
MVL-HF1628M-6MPE	16 mm	F2.8~F16	-0.018%	31.28°	25.94°	17.48°
MVL-HF2528M-6MPE	25 mm	F2.8~F16	-0.028%	20.32°	16.77°	11.24°
MVL-HF3028M-6MPE	30 mm	F2.8~F16	-0.031%	16.99°	14.01°	9.38°
MVL-HF4028M-6MPE	40 mm	F2.8~F16	-0.024%	12.78°	10.53°	7.04°
MVL-HF5028M-6MPE	50 mm	F2.8~F16	0.030%	9.72°	7.84°	5.24°

Dimension

A   B   C   D
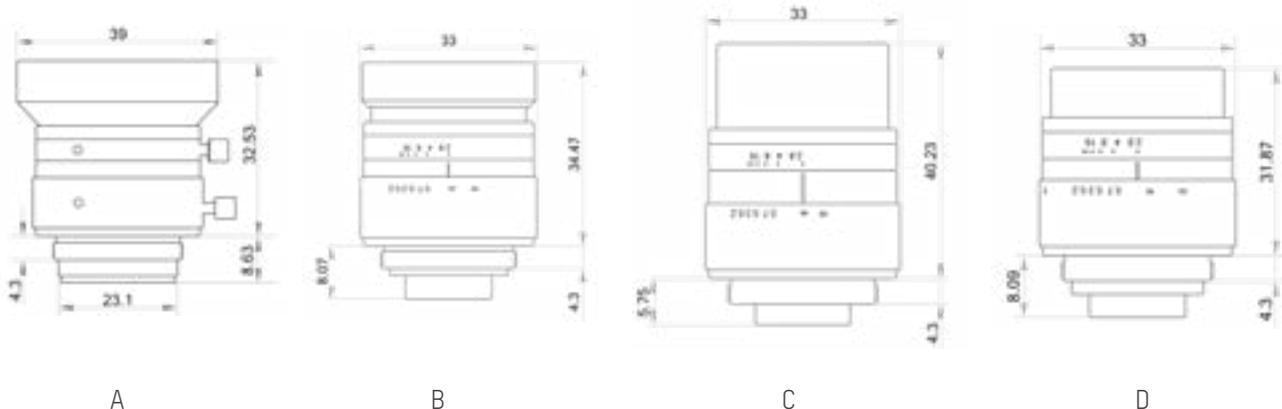
M.O.D (m)	Filter Thread	Mount	Operating Temperature	Dimension	Label
0.1	M37.5 × P0.5	C	-10~50°C	Φ39 × 32.53 mm	A
0.1	M30.5 × P0.5	C	-10~50°C	Φ33 × 34.47 mm	B
0.1	M27 × P0.5	C	-10~50°C	Φ33 × 40.23 mm	C
0.1	M27 × P0.5	C	-10~50°C	Φ33 × 31.87mm	D
0.2	M27 × P0.5	C	-10~50°C	Φ33 × 30.22 mm	E
0.2	M27 × P0.5	C	-10~50°C	Φ33 × 29.37 mm	F
0.25	M27 × P0.5	C	-10~50°C	Φ33 × 41.47 mm	G
0.25	M30.5 × 0.5	C	-10~50°C	Φ37 × 51.69 mm	H

E

F

G

H

Unit:mm

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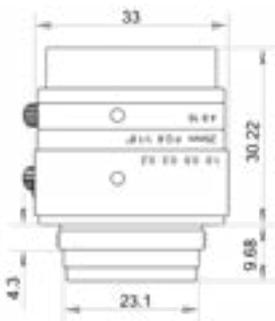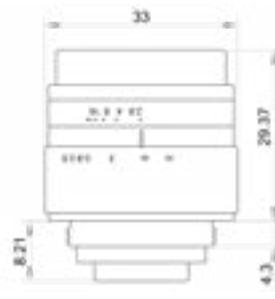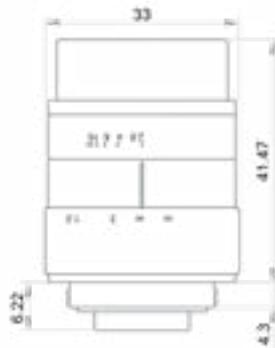
HF-P Series (1/1.8" 10MP)

Key Features

- Ultra-high resolution and consistency of image clarity.
- Bigger aperture, lower distortion and higher relative illumination rate.
- Achromatic optical system design, better imaging performance with color camera.
- Excellent vibration resistance performance, optical axis shifting within pixel level.
- Good stability at high and low temperature.
- Multilayer and broadband coating design, compatible with visible and near-infrared applications.

Specifications

Model	Focal Length	F No.	Distortion	Field of View		
				D	H	V
MVL-HF0624M-10MP	6 mm	F2.4~F16	0.37%	72.96°	62.46°	44.05°
MVL-HF0824M-10MP	8 mm	F2.4~F16	-0.67%	58.81°	49.56°	34.04°
MVL-HF1224M-10MP	12 mm	F2.4~F16	0.15%	40.2°	33.6°	22.9°
MVL-HF1624M-10MP	16 mm	F2.4~F16	-0.02%	30.17°	25.07°	16.92°
MVL-HF2524M-10MP	25 mm	F2.4~F16	-0.01%	19.67°	16.19°	10.85°
MVL-HF3524M-10MP	35 mm	F2.4~F16	0.01%	13.47°	11.03°	7.34°
MVL-HF5024M-10MP	50 mm	F2.4~F16	0.03%	9.10°	7.48°	5.00°

Dimension
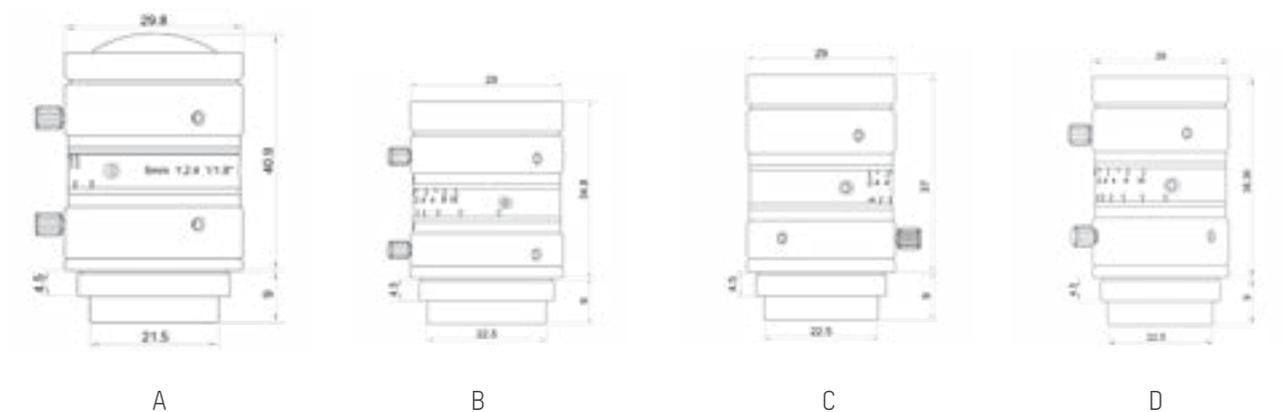
A   B   C   D

M.O.D (m)	Filter Thread	Mount	Operating Temperature	Dimension	Label
0.1	/	C	-10~50℃	Φ29.8 × 40.9 mm	A
0.1	M27 × 0.5	C	-10~50℃	Φ29 × 34.8 mm	B
0.1	M27 × 0.5	C	-10~50℃	Φ29 × 37 mm	C
0.1	M27 × 0.5	C	-10~50℃	Φ29 × 38.36 mm	D
0.1	M27 × 0.5	C	-10~50℃	Φ29 × 41.43 mm	E
0.15	M27 × 0.5	C	-10~50℃	Φ29 × 51.68 mm	F
0.3	M27 × 0.5	C	-10~50℃	Φ29.5 × 52 mm	G

E

F

G

Unit:mm

■ MF Series (2/3" 8MP)

Key Features

• Ultra-high resolution and consistency of image clarity.
• Lower distortion and higher relative illumination rate.
• Achromatic optical system design, better imaging performance with color camera.
• Good stability at high and low temperature and excellent vibration resistance performance.
• Supports ultra-short working distance with good optical performance.

Specifications

Model	Focal Length	F No.	Distortion	Field of View		
				D	H	V
MVL-MF0828M-8MP	8 mm	F2.8~F16	0.28%	68.46°	54.97°	47.06°
MVL-MF1228M-8MP	12 mm	F2.8~F16	0.28%	48.57°	37.88°	32.04°
MVL-MF1628M-8MP	16 mm	F2.8~F16	0.33%	37.39°	28.9°	24.33°
MVL-MF2528M-8MP	25 mm	F2.8~F16	0.01%	23.23°	17.78°	14.91°
MVL-MF3528M-8MP	35 mm	F2.8~F16	0.02%	15.26°	11.65°	9.76°
MVL-MF5028M-8MP	50 mm	F2.8~F16	0.01%	11.67°	8.81°	7.38°

Dimension

A

B

C

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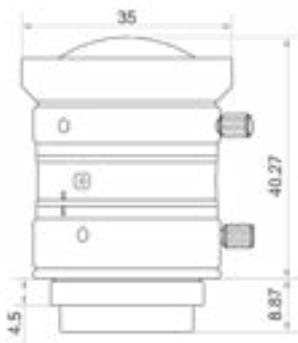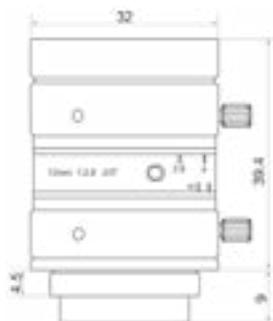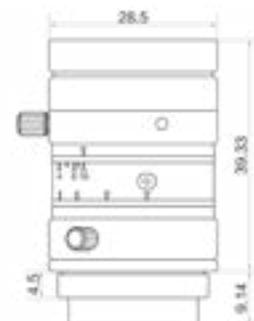
M.O.D (m)	Filter Thread	Mount	Operating Temperature	Dimension	Label
0.1	/	C	-10~50°C	Φ35 × 40.27 mm	A
0.1	M30.5 × 0.5	C	-10~50°C	Φ32 × 39.4 mm	B
0.1	M27 × 0.5	C	-10~50°C	Φ28.5 × 39.33 mm	C
0.1	M27 × 0.5	C	-10~50°C	Φ30 × 38.59 mm	D
0.15	M30.5 × 0.5	C	-10~50°C	Φ32 × 48.43 mm	E
0.4	M27 × 0.5	C	-10~50°C	Φ29.5 × 53.81 mm	F
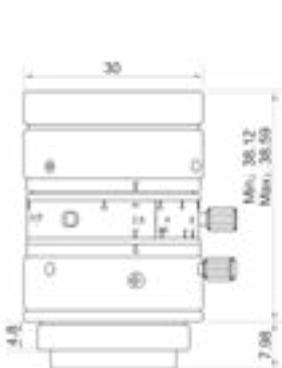
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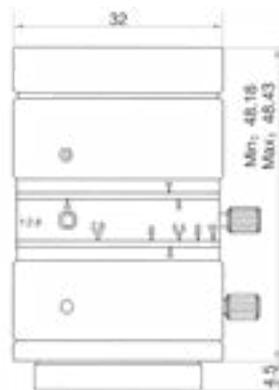
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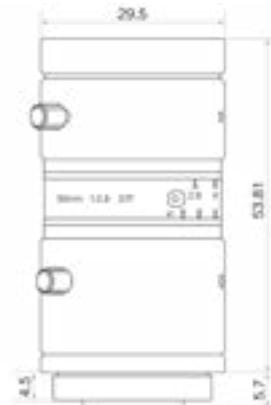
F

Unit:mm

KF-E Series (1.1" 12MP)

Key Features

- High resolution and consistency of image clarity.
- Low distortion.
- High relative illumination.
- Excellent optical performance at different working distances.

Specifications

Model	Focal Length	F No.	Distortion	Field of View		
				D	H	V
MVL-KF0618M-12MPE	6 mm	F1.8~F16	2.50%	118.2°	104.9°	86.2°
MVL-KF0814M-12MPE	8 mm	F1.4~F16	5.50%	98.4°	84.8°	68°
MVL-KF1228M-12MPE	12 mm	F2.8~F22	1.50%	66.7°	57°	45°
MVL-KF1628M-12MPE	16 mm	F2.8~F16	0.15%	55.6°	45.8°	35.3°
MVL-KF2528M-12MPE	25 mm	F2.8~F22	0.10%	37.6°	30.4°	23°
MVL-KF3528M-12MPE	35 mm	F2.8~F22	0.02%	28.3°	22.6°	17°
MVL-KF5028M-12MPE	50 mm	F2.8~F22	0.04%	19.9°	15.9°	11.9°

Dimension

A　　　　　　B　　　　　　C　　　　　　D

M.O.D (m)	Filter Thread	Mount	Operating Temperature	Dimension	Label
0.1	/	C	-10~50°C	Φ66 × 77.8 mm	A
0.1	M58 × 0.75	C	-10~50°C	Φ60 × 77.8 mm	B
0.1	/	C	-10~50°C	Φ48 × 71.32 mm	C
0.1	M43 × 0.75	C	-10~50°C	Φ46 × 67.2 mm	D
0.1	M35.5 × 0.5	C	-10~50°C	Φ37 × 82 mm	E
0.2	M35.5 × 0.5	C	-10~50°C	Φ38 × 47.6 mm	F
0.3	M35.5 × 0.5	C	-10~50°C	Φ38 × 53.9 mm	G

E

F

G

Unit:mm

■KF-P Series (1.2" 25MP)

Key Features

- Ultra-high resolution and consistency of image clarity.
- 1.2 " Large image size, large aperture, low distortion, high relative illumination.
- Achromatic design for better imaging with color camera.
- Excellent high/low temperature stability for harsh environments.
- Excellent anti-vibration and anti-impact performance.
- Excellent optical performance at different working distances.

Specifications

Model	Focal Length	F No.	Distortion	Field of View		
				D	H	V
MVL-KF1224M-25MP	12 mm	F2.4~F16	0.39%	76.37°	62.32°	55.34°
MVL-KF1624M-25MP	16 mm	F2.4~F16	0.07%	61.61°	48.82°	42.89°
MVL-KF2524M-25MP	25 mm	F2.4~F16	-0.04%	40.80°	31.42°	27.34°
MVL-KF3524M-25MP	35 mm	F2.4~F16	0.02%	29.48°	22.51°	19.54°
MVL-KF5024M-25MP	50 mm	F2.4~F16	0.01%	20.60°	15.66°	13.57°

Dimension

A

B

C

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M.O.D (m)	Filter Thread	Mount	Operating Temperature	Dimension	Label
0.1	/	C	-10~50°C	Φ50 × 66.96 mm	A
0.1	M40.5 × 0.5	C	-10~50°C	Φ42.5 × 59.8 mm	B
0.15	M37 × 0.5	C	-10~50°C	Φ40 × 58.4 mm	C
0.15	M40.5 × 0.5	C	-10~50°C	Φ42 × 59.3 mm	D
0.25	M40.5 × 0.5	C	-10~50°C	Φ42 × 61.2 mm	E
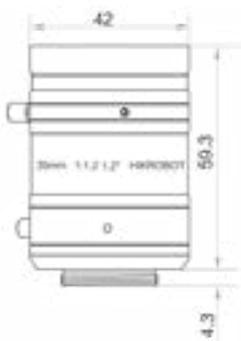
D

E

Unit:mm

LF Series (Large Image Circle Lens)

Key Features

- 100 million ultra-clear resolution with ultimate precision of 3.1 μm.
- Ultra-high resolution and consistency of image clarity.
- Ultra-low distortion and high relative illumination.
- The maximum image surface coverage is φ46mm, supporting large sensor size areascan camera and 8K 5 μm linescan camera.
- Optimized optical design for different magnification.
- F mount is detachable, which is convenient to expand other interfaces.

Specifications

Model	Focal Length	F No.	Distortion	Field of View		
				D	H	V
MVL-LF3528M-F	35 mm	F2.8~F16	0.40%	65.41°	56.32°	39.20°
MVL-LF5040M-F	50 mm	F4.0~F22	-0.22%	30.41°	25.47°	17.13°
MVL-LF8040M-F	80 mm	F4.0~F22	0.04%	30.41°	25.47°	17.13°
MVL-AF2045M-M42	20 mm	F4.5~C	0.20%		H: 71°	
MVL-AF2840M-M42	28mm	F4.0~C	0.10%		H: 53°	
MVL-AF3528M-M42	35 mm	F2.8~F16	0.40%		H: 44°	
MVL-AF4028M-M42	40 mm	F2.8~F22	0.62%		H: 39°	
MVL-AF5040M-M42	50 mm	F4.0~F22	0.21%		H: 32°	

Notice: Horizontal FOV: Calculated with a line scan camera (4K 7μm, chip horizontal size: 28.7mm).

Dimension

A

B

C

D

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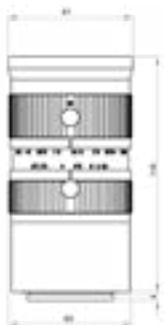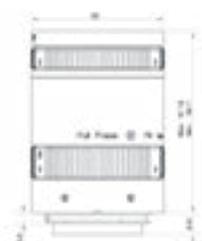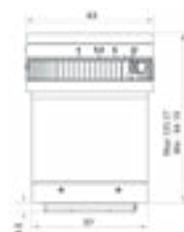
M.O.D (m)	Filter Thread	Mount	Operating Temperature	Dimension	Label
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0.33x~0.01x	M52 × 0.75	F	-10~50℃	Φ59 × 97.19 mm	B
0.4x~0.04x	M52 × 0.75	F	-10~50℃	Φ63 × 120.37 mm	C
0.1x~0.02x	M43 × 0.75	M42	-10~50℃	Φ52.7 × 51.4 mm	D
0.3x~0.05x	M35 × 0.5	M42	-10~50℃	Φ48.1 × 54.9 mm	E
0.2x~0.001x	M58 × 0.75	M42	-10~50℃	Φ61 × 116 mm	F
0.22x~0.04x	M37 × 0.75	M42	-10~50℃	Φ47.6 × 62.7 mm	G
0.33x~0.01x	M52 × 0.75	M42	-10~50℃	Φ59 × 133.2 mm	H

E
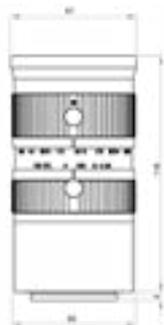
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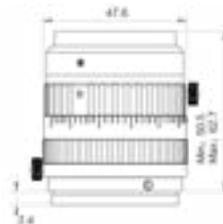
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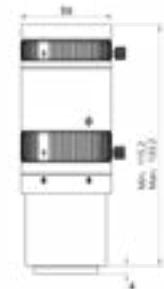
H

Unit:mm

Lighting

■ Ring-Type Lighting

Standard Ring-Type Lighting

MV-LRDS-H standard ring-type lighting, provide various sizes, irradiation angles specification and model, built in high-quality LED, while ensuring lighting concentration, improve inside dissipation design, ensure that the lighting works stably and efficiently.

Specifications

Model	Outer dimensions	Bore dimensions	Irradiation angle	LED rows	Power consumption	Best working distance
MV-LRDS-H-45-60-W	Φ45 mm	Φ16 mm	60°	2	2.5 W	40~70 mm
MV-LRDS-H-45-90-W	Φ45 mm	Φ15 mm	90°	2	2.1 W	80~90 mm
MV-LRDS-H-55-60-W	Φ55 mm	Φ25 mm	60°	2	2.9 W	40~70 mm
MV-LRDS-H-55-90-W	Φ55 mm	Φ23 mm	90°	2	3 W	80~90 mm
MV-LRDS-H-65-30-W	Φ65 mm	Φ30 mm	30°	2	3.8 W	20~30 mm
MV-LRDS-H-65-60-W	Φ65 mm	Φ30 mm	60°	2	3.2 W	60~70 mm
MV-LRDS-H-65-90-W	Φ65 mm	Φ30 mm	90°	2	3.8 W	90~100 mm
MV-LRDS-H-80-15-W	Φ80 mm	Φ45 mm	15°	2	5.1 W	20~30 mm
MV-LRDS-H-80-30-W	Φ80 mm	Φ45 mm	30°	2	5.5 W	20~30 mm
MV-LRDS-H-80-60-W	Φ80 mm	Φ40 mm	60°	3	6.5 W	60~70 mm
MV-LRDS-H-80-90-W	Φ80 mm	Φ35 mm	90°	3	7.2 W	100~110 mm
MV-LRDS-H-95-00-W	Φ95 mm	Φ60 mm	0°	1	3.4 W	0~10 mm
MV-LRDS-H-95-30-W	Φ95 mm	Φ60 mm	30°	2	6.8 W	20~40 mm
MV-LRDS-H-95-60-W	Φ95 mm	Φ45 mm	60°	4	10.4 W	60~100 mm
MV-LRDS-H-95-90-W	Φ95 mm	Φ45 mm	90°	4	11.4 W	90~120 mm
MV-LRDS-H-105-00-W	Φ105 mm	Φ70 mm	0°	1	3.4 W	0~10 mm
MV-LRDS-H-105-30-W	Φ105 mm	Φ62 mm	30°	3	10.6 W	20~40 mm
MV-LRDS-H-105-60-W	Φ105 mm	Φ45 mm	60°	5	13 W	90~120 mm
MV-LRDS-H-105-90-W	Φ105 mm	Φ43 mm	90°	5	14.4 W	90~120 mm
MV-LRDS-H-120-00-W	Φ120 mm	Φ87 mm	0°	1	4.2 W	0~10 mm
MV-LRDS-H-120-30-W	Φ120 mm	Φ74 mm	30°	3	12.2 W	20~40 mm
MV-LRDS-H-120-45-W	Φ120 mm	Φ68 mm	45°	4	15.6 W	60~80 mm
MV-LRDS-H-120-60-W	Φ120 mm	Φ60 mm	60°	5	15.8 W	90~110 mm
MV-LRDS-H-120-75-W	Φ120 mm	Φ60 mm	75°	4	14.8 W	90~110 mm
MV-LRDS-H-120-90-W	Φ120 mm	Φ60 mm	90°	4	14.8 W	90~120 mm
MV-LRDS-H-140-15-W	Φ140 mm	Φ105 mm	15°	2	10.1 W	20~30 mm
MV-LRDS-H-140-45-W	Φ140 mm	Φ90 mm	45°	4	19.4 W	60~80 mm
MV-LRDS-H-140-90-W	Φ140 mm	Φ70 mm	90°	5	21.5 W	90~120 mm
MV-LRDS-H-160-00-W	Φ160 mm	Φ120 mm	0°	1	5.9 W	0~10 mm
MV-LRDS-H-160-30-W	Φ160 mm	Φ110 mm	30°	3	16.9 W	20~40 mm
MV-LRDS-H-160-60-W	Φ160 mm	Φ95 mm	60°	5	22.7 W	70~90 mm
MV-LRDS-H-160-90-W	Φ160 mm	Φ90 mm	90°	5	26.2 W	120~140 mm

Product:

Lighting Signal:
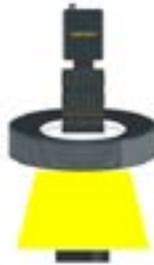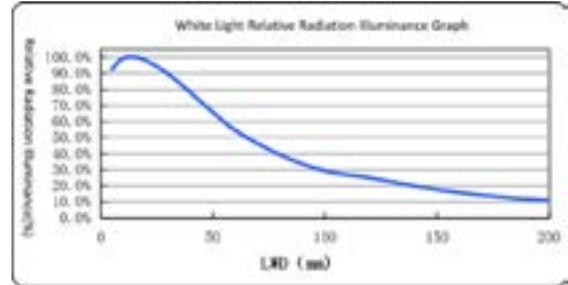
White Light Relative Radiation Illuminance Graph:

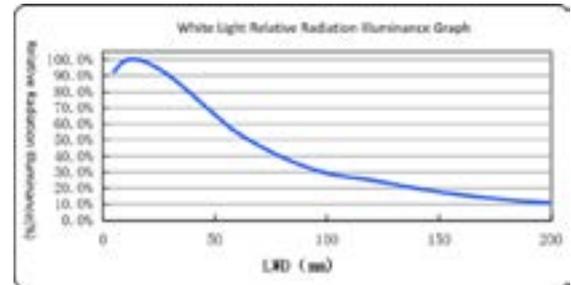| Weight	Color	Color temperature	Connector type	Cable length	Input voltage	Diffuse plate included
87 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
95 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
103 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
118 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
130 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
124 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
145 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
172 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
162 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
170 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
218 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
181 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
192 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
235 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
292 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
169.2 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
241.7 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
323.6 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
297.1 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
207.3 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
317.3 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
333 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
372.1 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
332.2 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
343.3 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
316.9 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
407.3 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
441.5 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
288.7 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
520.2 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
524.5 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
552.1 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA

Model	Outer dimensions	Bore dimensions	Irradiation angle	LED rows	Power consumption	Best working distance
MV-LRDS-H-180-00-W	Φ180 mm	Φ140 mm	0°	1	13.6 W	0~10 mm
MV-LRDS-H-180-60-W	Φ180 mm	Φ115 mm	60°	5	31.3 W	70~90 mm
MV-LRDS-H-180-90-W	Φ180 mm	Φ100 mm	90°	6	35.5 W	140~160 mm
MV-LRDS-H-200-00-W	Φ200 mm	Φ130 mm	0°	1	15.2 W	0~10 mm
MV-LRDS-H-200-30-W	Φ200 mm	Φ150 mm	30°	3	22 W	20~40 mm
MV-LRDS-H-200-90-W	Φ200 mm	Φ115 mm	90°	7	46 W	180~200 mm
MV-LRDS-H-230-15-W	Φ230 mm	Φ180 mm	15°	4	35.5 W	20~30 mm

Dimension
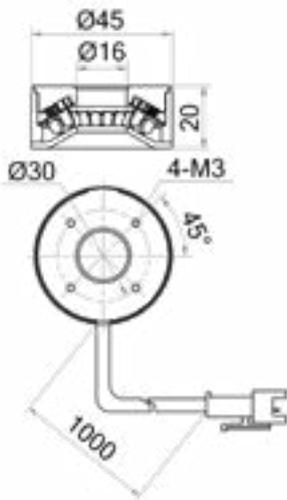
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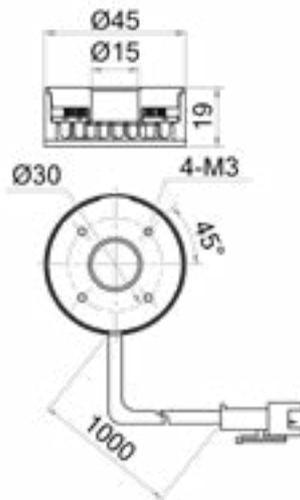
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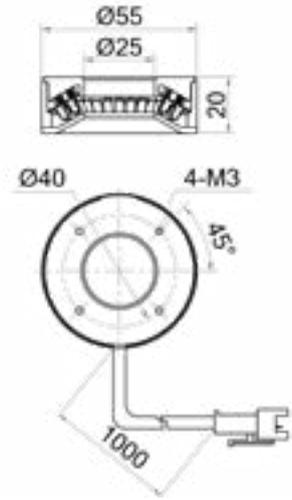
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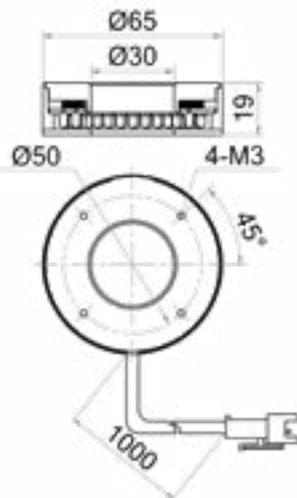
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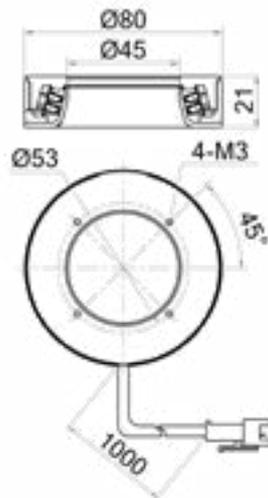
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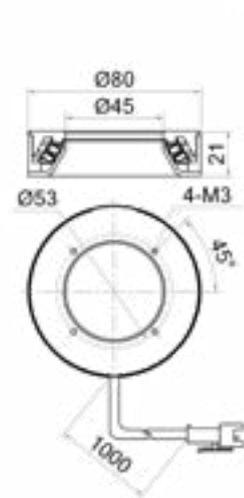
MV-LRDS-H-80-30-W

Weight	Color	Color temperature	Connector type	Cable length	Input voltage	Diffuse plate included
324.3 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
608.4 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
705.9 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
353.4 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
649.7 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
830.4 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
928.2 g	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
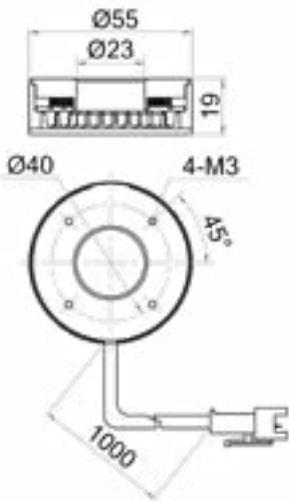
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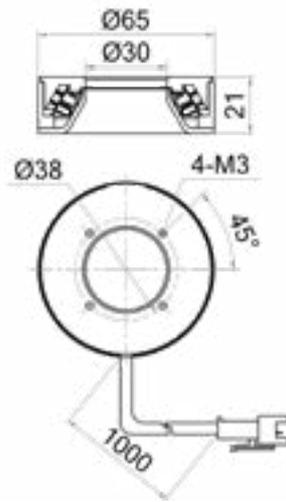
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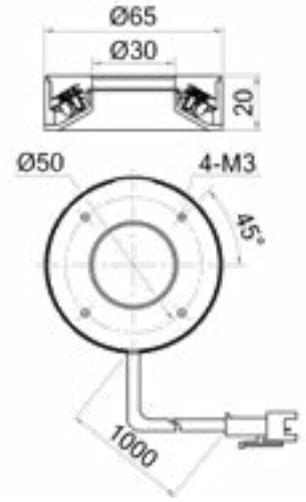
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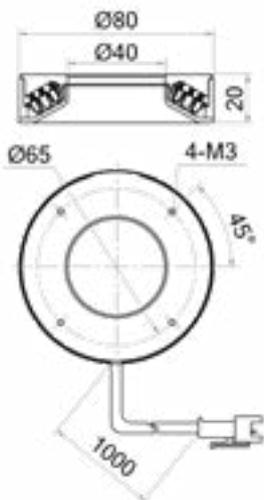
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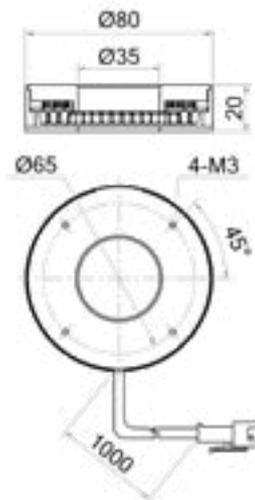
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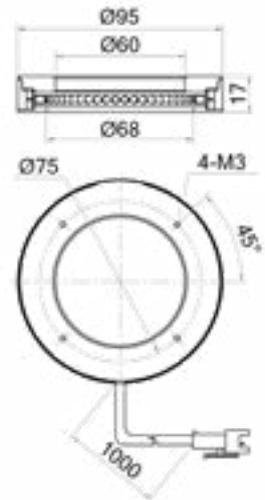
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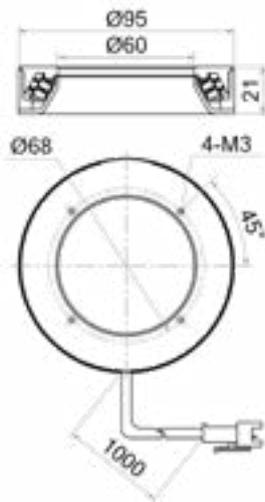
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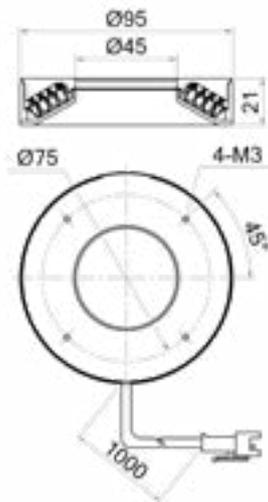
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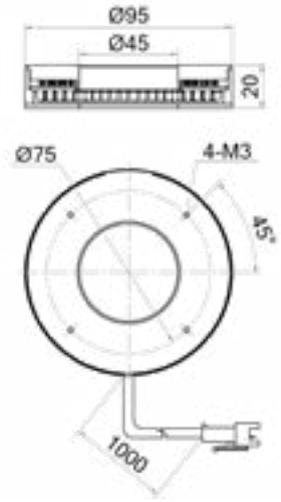
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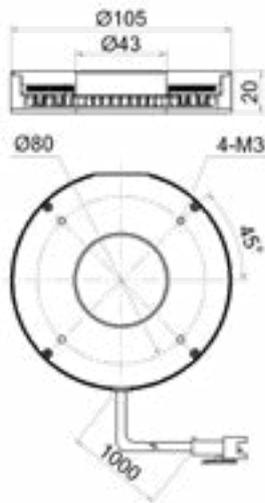
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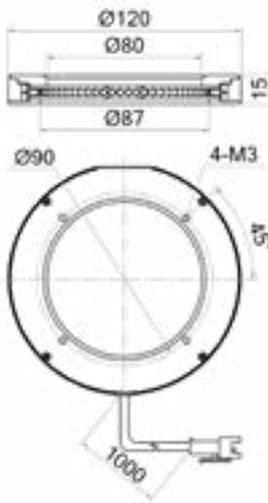
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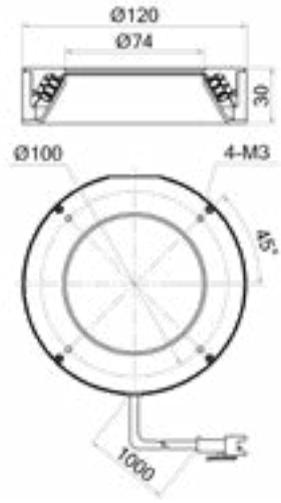
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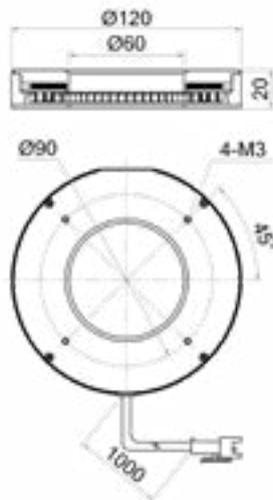
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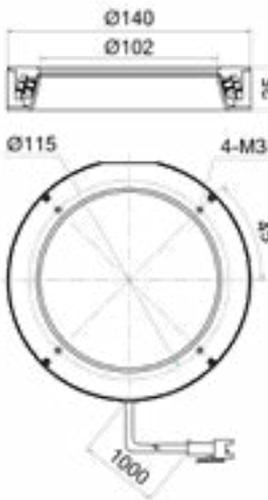
MV-LRDS-H-140-15-W

MV-LRDS-H-140-45-W

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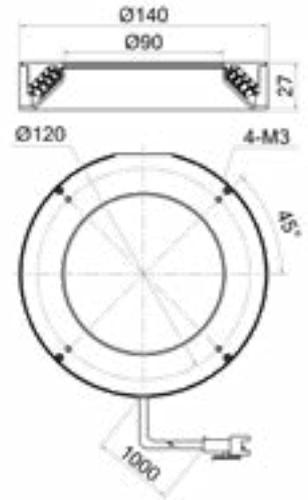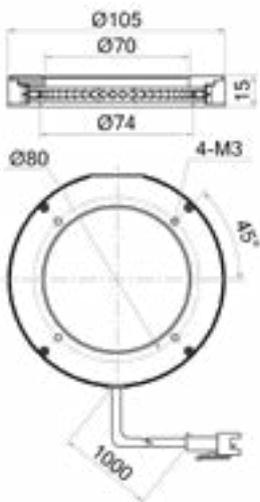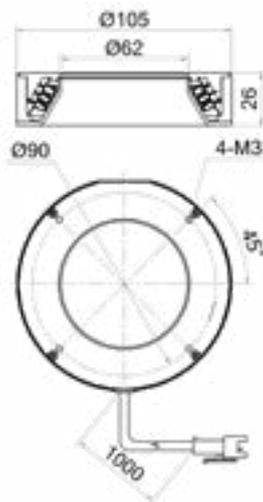
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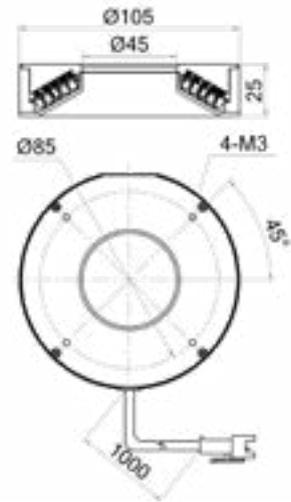
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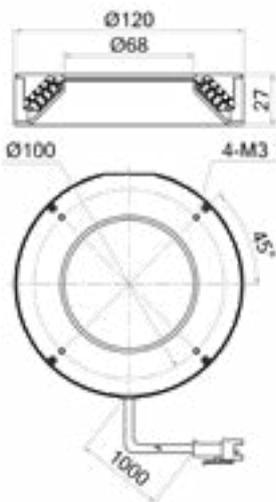
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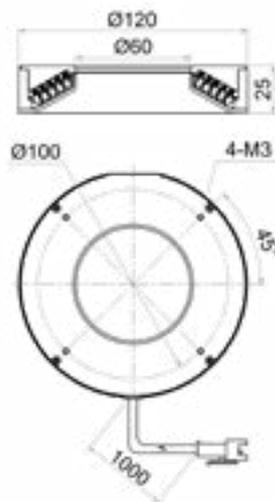
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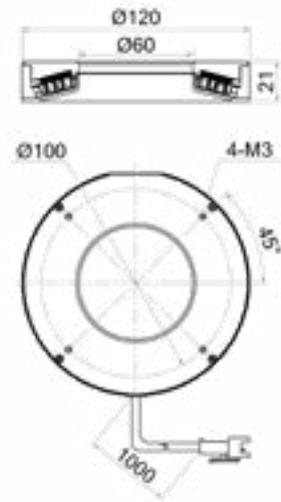
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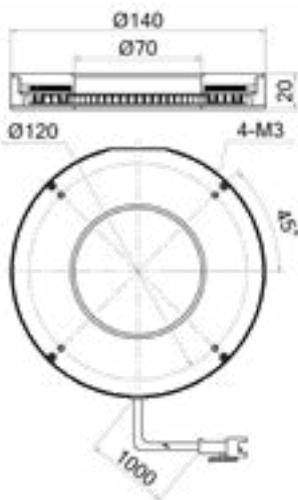
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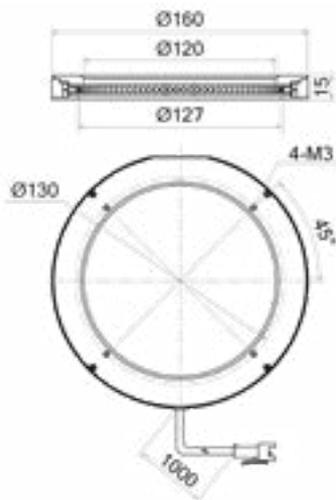
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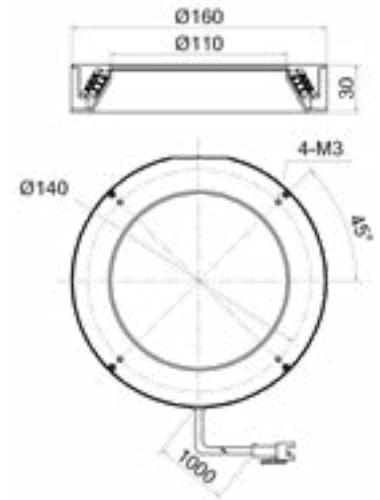
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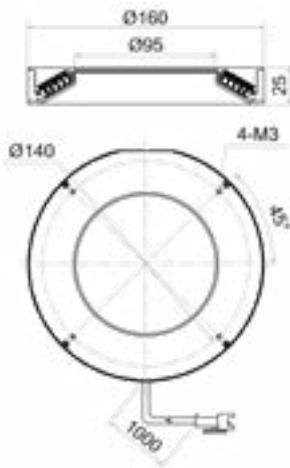
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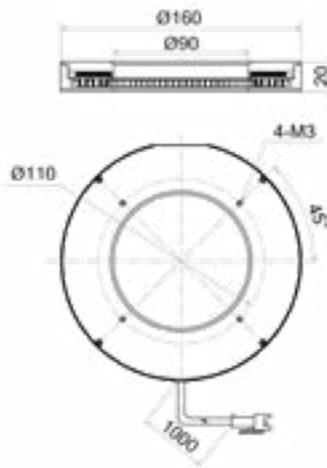
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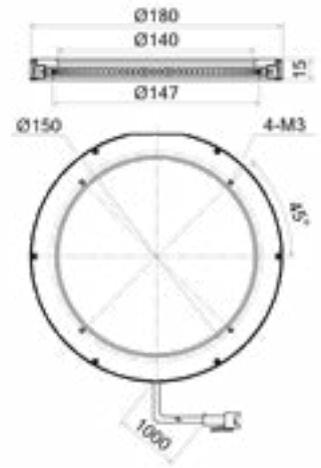
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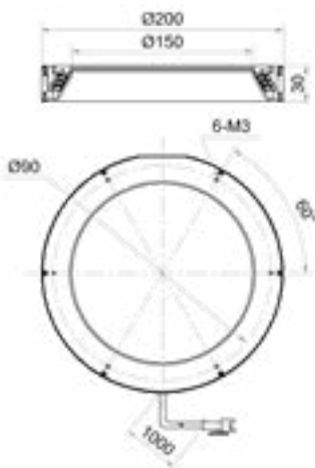
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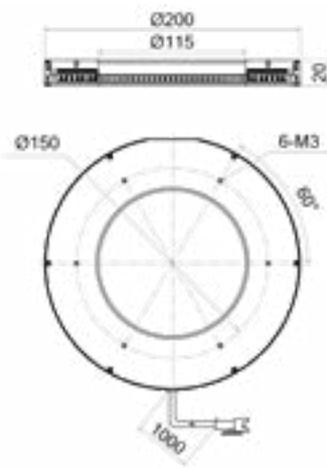
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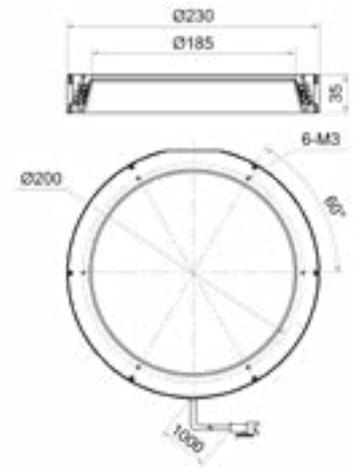
MV-LRDS-H-230-15-W

Unit:mm

Shadowless Ring-Type Lighting

MV-LRSS-H shadowless ring-type lighting adopts special diffuse plate included, achieve uniform range irradiation with high degrees of freedom, chip LED with built-in large luminous angle, and provide a variety of sizes for selection.

Specifications

| Model	Outer dimensions	Bore dimensions	LED rows	Power consumption	Best working distance
MV-LRSS-H-80-W	Φ80 mm × 18 mm	Φ40 mm	1	8.7 W	30~50 mm
MV-LRSS-H-120-W	Φ120 mm × 18 mm	Φ75 mm	1	13.1 W	30~60 mm
MV-LRSS-H-160-W	Φ160 mm × 18 mm	Φ116 mm	1	17.4 W	30~80 mm
MV-LRSS-H-200-W	Φ200 mm × 34 mm	Φ148 mm	1	21.8 W	30~80 mm
MV-LRSS-H-250-W	Φ250 mm × 34 mm	Φ190 mm	1	26.2 W	60~120 mm
MV-LRSS-H-300-W	Φ300 mm × 34 mm	Φ248 mm	1	30.5 W	60~120 mm
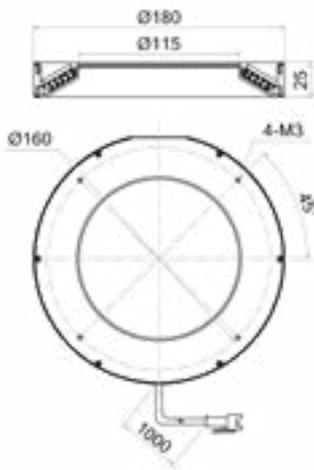
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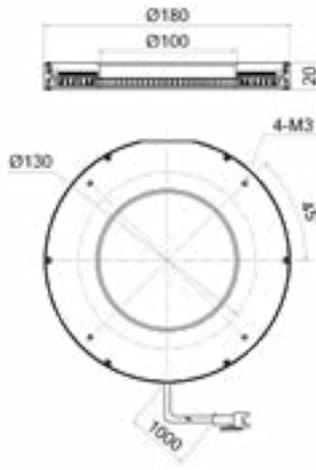
MV-LRDS-H-180-90-W


MV-LRDS-H-200-00-W

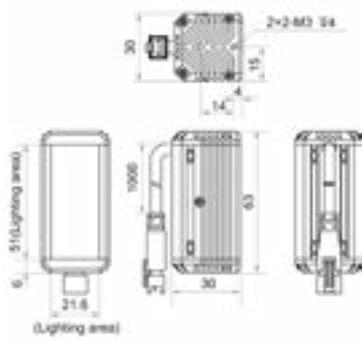Product:

Lighting Signal:

White Light Relative Radiation Illuminance Graph:

Weight	Color	Color temperature	Connector type	Cable length	Input voltage	Diffuse plate included
131 g	White	6000~7000K	SMR-03V-B	1000 mm	24 VDC	PMMA
224 g	White	6000~7000K	SMR-03V-B	1000 mm	24 VDC	PMMA
298 g	White	6000~7000K	SMR-03V-B	1000 mm	24 VDC	PMMA
564 g	White	6000~7000K	SMR-03V-B	1000 mm	24 VDC	PMMA
763 g	White	6000~7000K	SMR-03V-B	1000 mm	24 VDC	PMMA
870 g	White	6000~7000K	SMR-03V-B	1000 mm	24 VDC	PMMA

Dimension
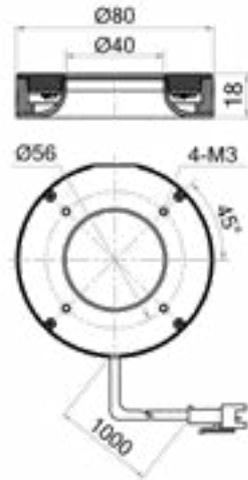
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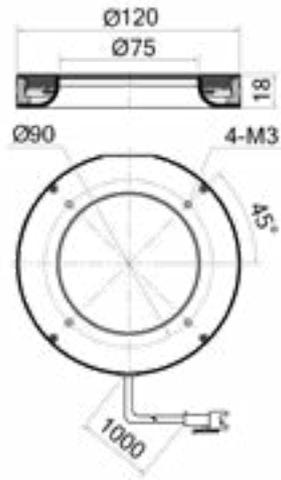
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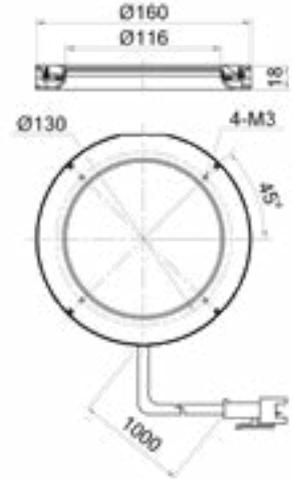
MV-LRSS-H-160-W

■ Bar-Type Lighting

MV-LLDS-H series industrial bar-type lighting, high quality LED particles, stable lighting and high brightness. Various length sizes are available for selection, and the installation is flexible.

Specifications

Model	Dimension	Emitting surface dimensions	LED rows	Power consumption	Best working distance
MV-LLDS-H-50-30-W	63 mm × 30 mm × 30 mm	51 mm × 21.6 mm	4	2.4 W	30~500 mm
MV-LLDS-H-50-40-W	63 mm × 40 mm × 30 mm	51 mm × 31.6 mm	6	3.5 W	30~500 mm
MV-LLDS-H-100-30-W	108 mm × 30 mm × 30 mm	96 mm × 21.6 mm	4	4.8 W	30~500 mm
MV-LLDS-H-100-40-W	108 mm × 40 mm × 30 mm	96 mm × 31.6 mm	6	6.9 W	30~500 mm
MV-LLDS-H-150-30-W	153 mm × 30 mm × 30 mm	141 mm × 21.6 mm	4	7.3 W	30~500 mm
MV-LLDS-H-150-40-W	153 mm × 40 mm × 30 mm	141 mm × 31.6 mm	6	10.7 W	30~500 mm
MV-LLDS-H-200-30-W	198 mm × 30 mm × 30 mm	186 mm × 21.6 mm	4	10.5 W	30~500 mm
MV-LLDS-H-200-40-W	198 mm × 40 mm × 30 mm	186 mm × 31.6 mm	6	14.2 W	30~500 mm
MV-LLDS-H-250-30-W	243 mm × 30 mm × 30 mm	231 mm × 21.6 mm	4	11.1 W	30~500 mm
MV-LLDS-H-250-40-W	243 mm × 40 mm × 30 mm	231 mm × 31.6 mm	6	17.7 W	30~500 mm
MV-LLDS-H-300-30-W	288 mm × 30 mm × 30 mm	276 mm × 21.6 mm	4	15.7 W	30~500 mm
MV-LLDS-H-300-40-W	288 mm × 40 mm × 30 mm	276 mm × 31.6 mm	6	21.2 W	30~500 mm
MV-LLDS-H-350-30-W	333 mm × 30 mm × 30 mm	321 mm × 21.6 mm	4	18.3 W	30~500 mm
MV-LLDS-H-350-40-W	333 mm × 40 mm × 30 mm	321 mm × 31.6 mm	6	24.6 W	30~500 mm
MV-LLDS-H-400-30-W	378 mm × 30 mm × 30 mm	366 mm × 21.6 mm	4	20.9 W	30~500 mm
MV-LLDS-H-400-40-W	378 mm × 40 mm × 30 mm	366 mm × 31.6 mm	6	28.3 W	30~500 mm
MV-LLDS-H-450-30-W	423 mm × 30 mm × 30 mm	411 mm × 21.6 mm	4	19.8 W	30~500 mm
MV-LLDS-H-450-40-W	423 mm × 40 mm × 30 mm	411 mm × 31.6 mm	6	31.6 W	30~500 mm
MV-LLDS-H-500-30-W	468 mm × 30 mm × 30 mm	456 mm × 21.6 mm	4	24.2 W	30~500 mm
MV-LLDS-H-500-40-W	468 mm × 40 mm × 30 mm	456 mm × 31.6 mm	6	35.1 W	30~500 mm
MV-LLDS-H-600-30-W	558 mm × 30 mm × 30 mm	546 mm × 21.6 mm	4	29 W	30~500 mm
MV-LLDS-H-600-40-W	558 mm × 40 mm × 30 mm	546 mm × 31.6 mm	6	42.3 W	30~500 mm
MV-LLDS-H-700-30-W	648 mm × 30 mm × 30 mm	636 mm × 21.6 mm	4	33.8 W	30~500 mm
MV-LLDS-H-700-40-W	648 mm × 40 mm × 30 mm	636 mm × 31.6 mm	6	49.3 W	30~500 mm
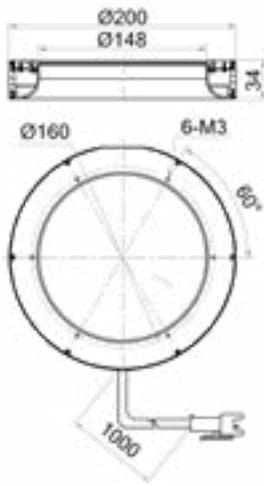
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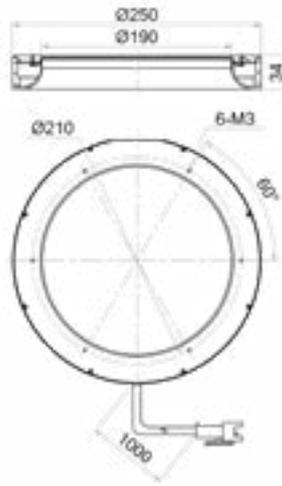
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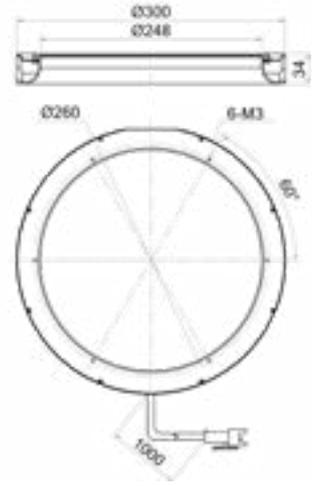
MV-LRSS-H-300-W

Unit:mm

Product:
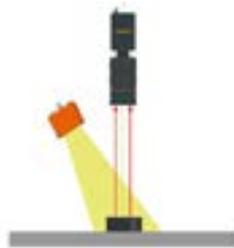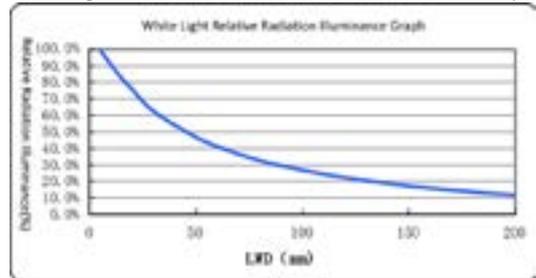
Lighting Signal:

White Light Relative Radiation Illuminance Graph:

Weight	Color	Color temperature	Connector type	Cable length	Input voltage	Diffuse plate included
0.12 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.15 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.2 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.23 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.28 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.32 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.36 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.41 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.43 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.49 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.51 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.57 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.59 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.66 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.67 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.74 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.75 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.83 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.83 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.91 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
0.98 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.08 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.14 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.26 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA

Model	Dimension	Emitting surface dimensions	LED rows	Power consumption	Best working distance
MV-LLDS-H-800-30-W	738 mm × 30 mm × 30 mm	726 mm × 21.6 mm	4	38.7 W	30~500 mm
MV-LLDS-H-800-40-W	738 mm × 40 mm × 30 mm	726 mm × 31.6 mm	6	56.5 W	30~500 mm
MV-LLDS-H-900-30-W	828 mm × 30 mm × 30 mm	816 mm × 21.6 mm	4	43.5 W	30~500 mm
MV-LLDS-H-900-40-W	828 mm × 40 mm × 30 mm	816 mm × 31.6 mm	6	63.5 W	30~500 mm
MV-LLDS-H-1000-30-W	918 mm × 30 mm × 30 mm	906 mm × 21.6 mm	4	48.4 W	30~500 mm
MV-LLDS-H-1000-40-W	918 mm × 40 mm × 30 mm	906 mm × 31.6 mm	6	70.5 W	30~500 mm
MV-LLDS-H-1200-30-W	1098 mm × 30 mm × 30 mm	1086 mm × 21.6 mm	4	58 W	30~500 mm
MV-LLDS-H-1200-40-W	1098 mm × 40 mm × 30 mm	1086 mm × 31.6 mm	6	84.6 W	30~500 mm
MV-LLDS-H-1400-30-W	1278 mm × 30 mm × 30 mm	1266 mm × 21.6 mm	4	67.6 W	30~500 mm
MV-LLDS-H-1400-40-W	1278 mm × 40 mm × 30 mm	1266 mm × 31.6 mm	6	99.5 W	30~500 mm

Dimension

MV-LLDS-H-50-30-W
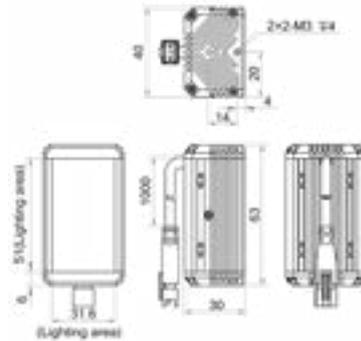
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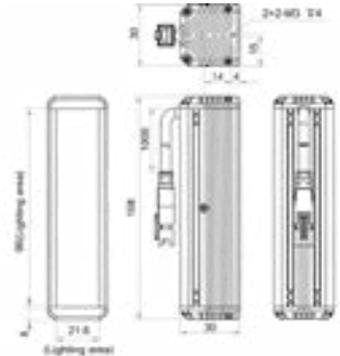
MV-LLDS-H-100-30-W

MV-LLDS-H-200-30-W
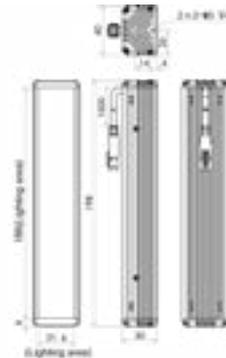
MV-LLDS-H-200-40-W

MV-LLDS-H-250-30-W

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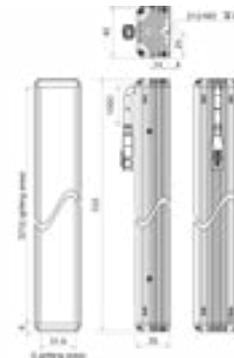
MV-LLDS-H-350-40-W

MV-LLDS-H-400-30-W

Weight	Color	Color temperature	Connector type	Cable length	Input voltage	Diffuse plate included
1.29 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.43 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.45 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.6 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.61 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.77 kg	White	6000~7500K	SMR-03V-B	1000 mm	24 VDC	PMMA
1.92 kg	White	6000~7500K	Dual-channel SMR-03V-B	1000 mm	24 VDC	PMMA
2.11 kg	White	6000~7500K	Dual-channel SMR-04V-B	1000 mm	24 VDC	PMMA
2.23 kg	White	6000~7500K	Dual-channel SMR-05V-B	1000 mm	24 VDC	PMMA
2.45 kg	White	6000~7500K	Dual-channel SMR-06V-B	1000 mm	24 VDC	PMMA
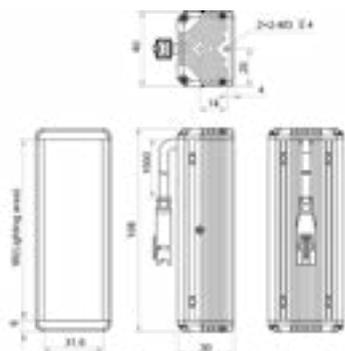
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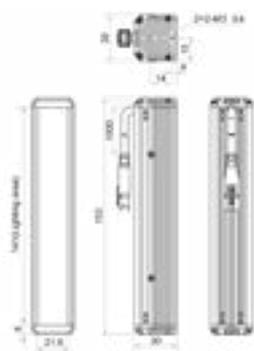
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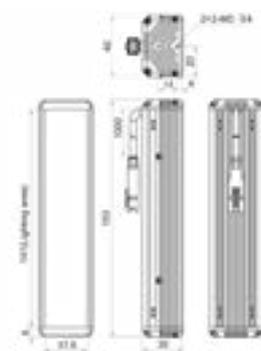
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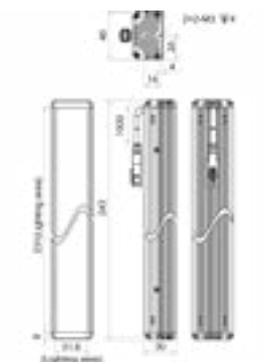
MV-LLDS-H-250-40-W

MV-LLDS-H-300-30-W

MV-LLDS-H-300-40-W

MV-LLDS-H-400-40-W
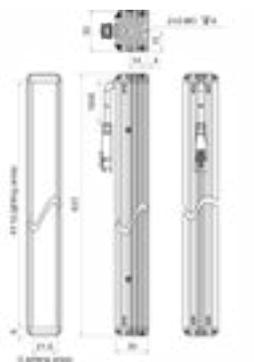
MV-LLDS-H-450-30-W

MV-LLDS-H-450-40-W

MV-LLDS-H-500-30-W
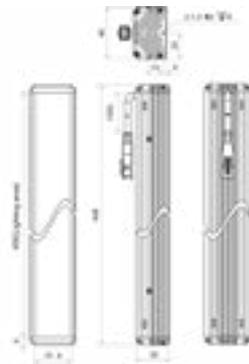
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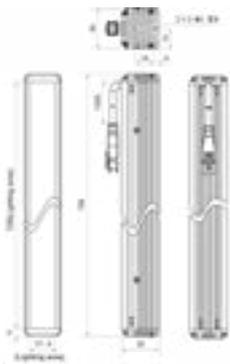
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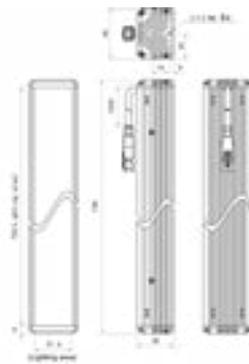
MV-LLDS-H-800-40-W

MV-LLDS-H-900-30-W

MV-LLDS-H-1200-30-W

MV-LLDS-H-1200-40-W

MV-LLDS-H-1400-30-W

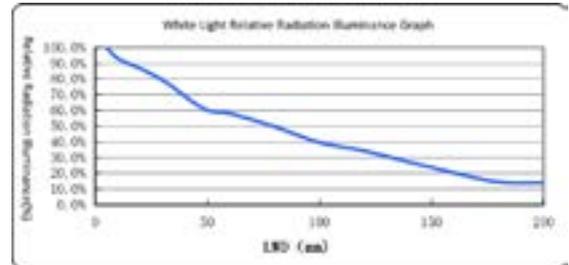# ■ Linescan-Type Lighting

MV-LTDS-H industry linescan-type lighting series adopts high brightness and high power LED, combination of structural heat dissipation and fan heat dissipation, provide good heat dissipation and working life, flexible installation, efficient focusing.

Specifications

Model	Dimension	Emitting surface dimensions	LED rows	Power consumption	Best working distance	Weight
MV-LTDS-H-100-W	150 mm × 58 mm × 90.5 mm	100 mm × 17 mm	1	42 W	10~200 mm	1.09 kg
MV-LTDS-H-200-W	250 mm × 58 mm × 90.5 mm	200 mm × 17 mm	1	84 W	10~200 mm	1.6 kg
MV-LTDS-H-300-W	350 mm × 58 mm × 90.5 mm	300 mm × 17 mm	1	126 W	10~200 mm	2.11 kg

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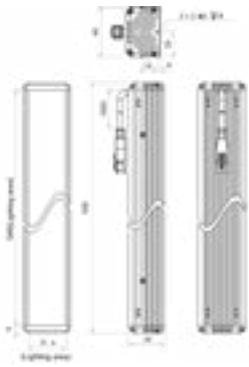
MV-LLDS-H-600-40-W

MV-LLDS-H-700-30-W
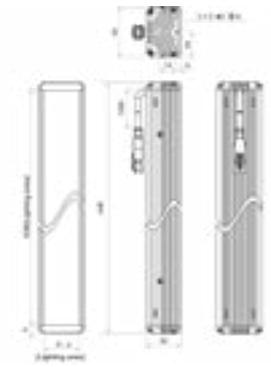
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MV-LLDS-H-900-40-W

MV-LLDS-H-1000-30-W
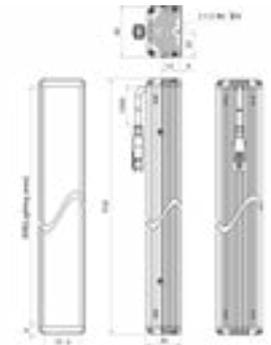
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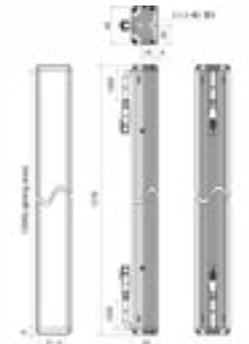
MV-LLDS-H-1400-40-W

Unit:mm

Product:

Lighting Signal:

White Light Relative Radiation Illuminance Graph:

Color	Color temperature	Center illuminance	Connector type	Cable length	Input voltage	Cooling mode	Temperature
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C

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Model	Dimension	Emitting surface dimensions	LED rows	Power consumption	Best working distance	Weight
MV-LTDS-H-400-W	450 mm × 58 mm × 90.5 mm	400 mm × 17 mm	1	168 W	10~200 mm	2.62 kg
MV-LTDS-H-500-W	550 mm × 58 mm × 90.5 mm	500 mm × 17 mm	1	210 W	10~200 mm	3.14 kg
MV-LTDS-H-600-W	650 mm × 58 mm × 90.5 mm	600 mm × 17 mm	1	252 W	10~200 mm	3.65 kg
MV-LTDS-H-700-W	750 mm × 58 mm × 90.5 mm	700 mm × 17 mm	1	294 W	10~200 mm	4.16 kg
MV-LTDS-H-800-W	850 mm × 58 mm × 90.5 mm	800 mm × 17 mm	1	336 W	10~200 mm	4.68 kg
MV-LTDS-H-900-W	970 mm × 58 mm × 90.5 mm	900 mm × 17 mm	1	378 W	10~200 mm	5.19 kg
MV-LTDS-H-1000-W	1070 mm × 58 mm × 90.5 mm	1000 mm × 17 mm	1	420 W	10~200 mm	5.71 kg
MV-LTDS-H-1100-W	1170 mm × 58 mm × 90.5 mm	1100 mm × 17 mm	1	462 W	10~200 mm	6.22 kg
MV-LTDS-H-1200-W	1270 mm × 58 mm × 90.5 mm	1200 mm × 17 mm	1	504 W	10~200 mm	6.73 kg
MV-LTDS-H-1300-W	1370 mm × 58 mm × 90.5 mm	1300 mm × 17 mm	1	546 W	10~200 mm	7.25 kg
MV-LTDS-H-1400-W	1470 mm × 58 mm × 90.5 mm	1400 mm × 17 mm	1	588 W	10~200 mm	7.76 kg
MV-LTDS-H-1500-W	1570 mm × 58 mm × 90.5 mm	1500 mm × 17 mm	1	630 W	10~200 mm	8.27 kg

Notice:The above models must be used with MV-LE201 series light controller.

Dimension
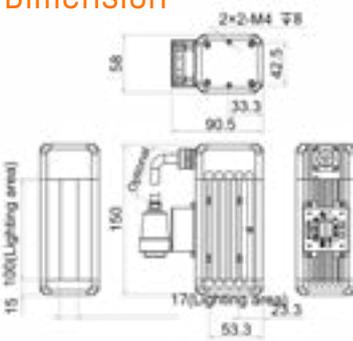
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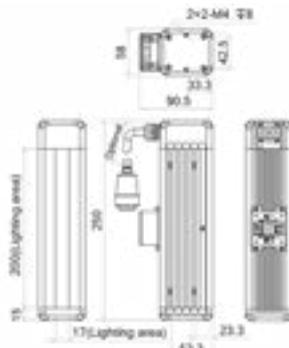
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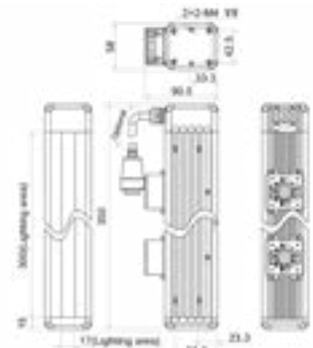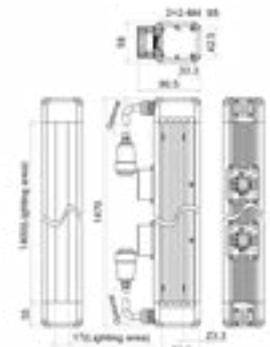

MV-LTDS-H-300-W
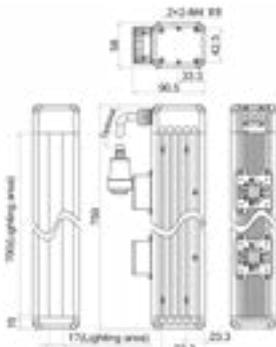
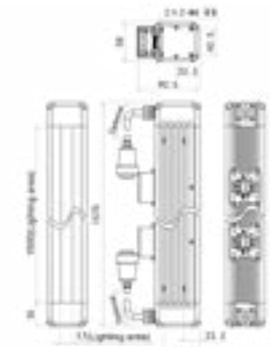MV-LTDS-H-700-W
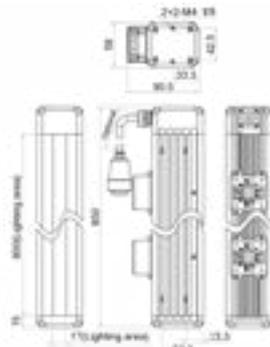
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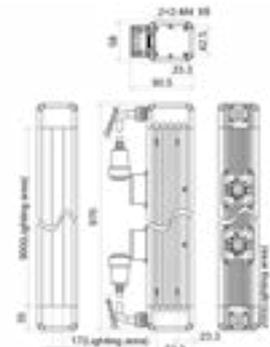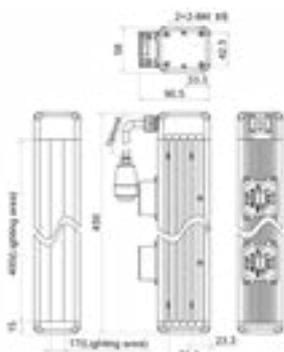

MV-LTDS-H-900-W
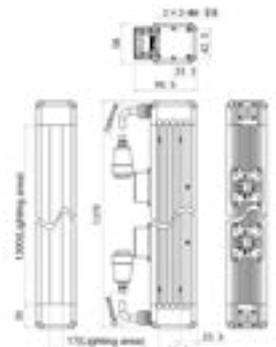
MV-LTDS-H-1300-W

MV-LTDS-H-1400-W

MV-LTDS-H-1500-W

Unit:mm

| Color	Color temperature	Center illuminance	Connector type	Cable length	Input voltage	Cooling mode	Temperature
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H, dual channel	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H, dual channel	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H, dual channel	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H, dual channel	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H, dual channel	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H, dual channel	Additional options	48 VDC	Fan cooling	0~40°C
White	6000~7000K	≥ 1 million lux	19M-8H, dual channel	Additional options	48 VDC	Fan cooling	0~40°C

MV-LTDS-H-400-W
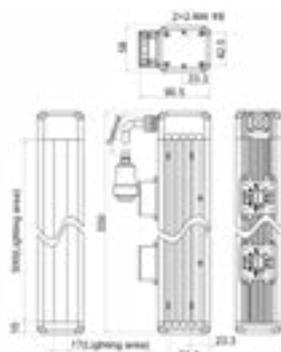
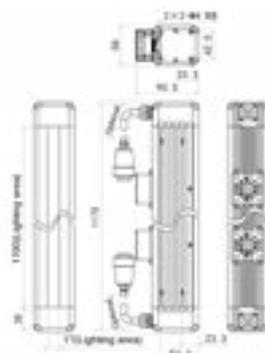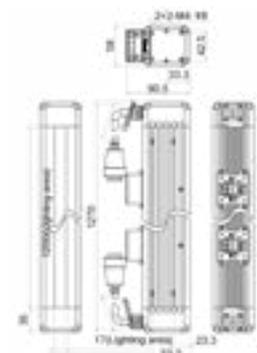MV-LTDS-H-500-W
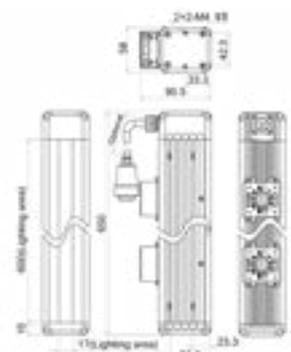
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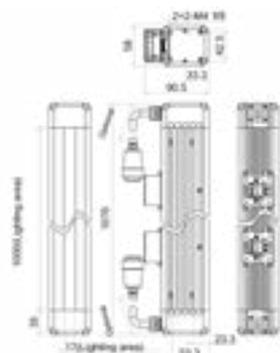
MV-LTDS-H-1000-W

MV-LTDS-H-1100-W

MV-LTDS-H-1200-W

Accessories

| Model	Description
MV-LW-H-001-1-19M8A	Cable, 19M-8A to 19M-8A, 1m length.
MV-LW-H-003-1-19M8A	Cable, 19M-8A to 19M-8A, 3m length.
MV-LW-H-005-1-19M8A	Cable, 19M-8A to 19M-8A, 5m length.
MV-LW-H-010-1-19M8A	Cable, 19M-8A to 19M-8A, 10m length.
MV-LW-H-015-1-19M8A	Cable, 19M-8A to 19M-8A, 15m length.

■ Dot-Type Lighting

Standard Dot-Type Lighting

MV-LDSS-H standard dot-type Lighting, adopts special light guide and highlight LED lamp bead. new shape and heat dissipation design, ensure light source has more lasting stability and service life.

Specifications

| Model	Dimension	Lighting area dimensions	Power consumption	Drive mode	Input current
MV-LDSS-H-8-3-W	59 mm × Ø24 mm	Ø8 mm	2 W	Constant current	680 mA
MV-LDSS-H-8-3-R	59 mm × Ø24 mm	Ø8 mm	1.7 W	Constant current	680 mA
MV-LDSS-H-8-3-B	59 mm × Ø24 mm	Ø8 mm	2.1 W	Constant current	680 mA
MV-LDSS-H-8-3-G	59 mm × Ø24 mm	Ø8 mm	2.1 W	Constant current	680 mA
MV-LDSS-H-8-3-Y	59 mm × Ø24 mm	Ø8 mm	2 W	Constant current	680 mA

Dimension
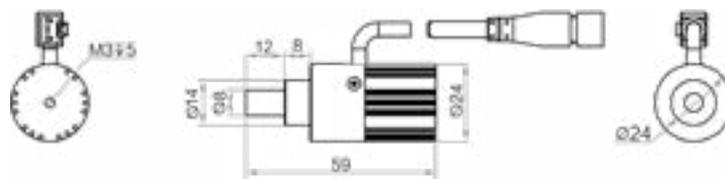
Unit:mm

Spotlight Dot-Type Lighting

MV-LDFS-H spotlight dot-type lighting, through special optical lens structure design, cooperate with bright LED light beads to achieve high-spotlight, high-uniformity circular direct lighting effect. small and compact size, suitable for lighting shooting in scenes with limited installation size and narrow space.

Specifications

Model	Dimension	Lighting area dimensions	Power consumption	Drive mode	Input current
MV-LDFS-H-20-6-W	64.5 mm × Ø29 mm	Ø20 mm	3.2 W	Constant current	1100 mA

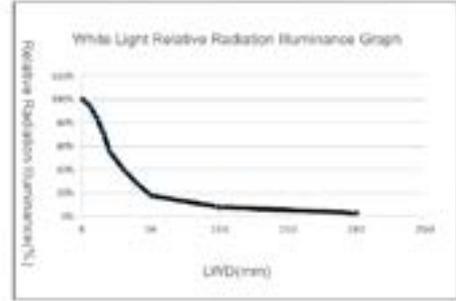## Dimension
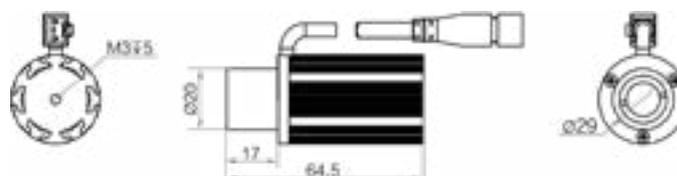
Unit:mm

Product: Lighting Signal: White Light Relative Radiation Illuminance Graph:

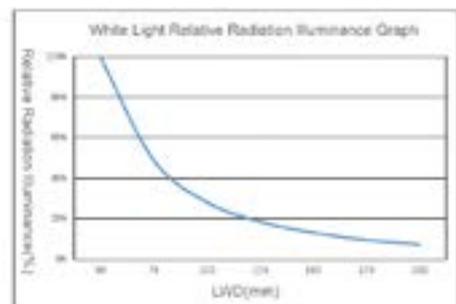| Best working distance	Weight	Color	Color temperature	Center illuminance	Connector type	Cable length
65 ~ 200 mm	75 g	White	6000 ~ 7000K	> 20K lux@WD=100 mm	SMR-03V-B	1000 mm
65 ~ 200 mm	75 g	Red	/	> 7K lux@WD=100 mm	SMR-03V-B	1000 mm
65 ~ 200 mm	75 g	Blue	/	> 4K lux@WD=100 mm	SMR-03V-B	1000 mm
65 ~ 200 mm	75 g	Green	/	> 25K lux@WD=100 mm	SMR-03V-B	1000 mm
65 ~ 200 mm	75 g	Yellow	/	> 20K lux@WD=100 mm	SMR-03V-B	1000 mm

Product: Lighting Signal: White Light Relative Radiation Illuminance Graph:

| Best working distance	Weight	Color	Color temperature	Center illuminance	Connector type	Cable length
65 ~ 200 mm	110 g	White	6000 ~ 7000K	≥ 140K lux@WD=100 mm	SMR-03V-B	1000 mm

Light Controller

■ Analog, Constant Voltage Series Light Controller

MV-LE100 analog light controller supports infinitely variable brightness and outputting multichannel light sources. It provides trigger input connectors, device management interface, etc. The analog light controller helps users realize fast and convenient deployment of vision light source on site.
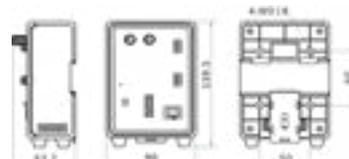
Specifications

Model	Drive mode	Lighting mode	Dimming mode	Lighting output connector	Output power	Channel	Output current for each channel	Output voltage	Power supply interface
MV-LE100-120W24-4D	Analog, constant voltage	Continued, trigger	Control panel (knob)	SMR-03V-BC	120 W max	4	3 A max	24 VDC	C13 220 VAC interface
MV-LE100-48W24-2D	Analog, constant voltage	Continued, trigger	Control panel (knob)	SMR-03V-BC	48 W max	2	1 A max	24 VDC	5.08 mm × 2 terminal block

Dimension
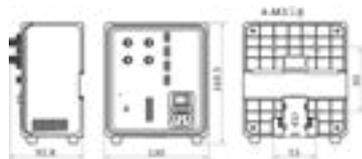
MV-LE100-120W24-4D　　　　　　MV-LE100-48W24-2D　　　Unit:mm

■ Digital, Constant Voltage Light Controller

MV-LE200 digital light controller supports outputting multichannel light sources and different control modes of light source. It provides I/O connectors, device management interface, and corresponding light source controller software. The digital light controller helps users realize fast and convenient deployment of light source on site.

Specifications

| Model	Drive mode	Lighting mode	Dimming mode	Console interface	Lighting output connector	Output power	Channel	Output current for each channel	Output voltage	Power supply interface
MV-LE200-200W24-4TD	Digital, constant voltage	Continued, trigger	Control panel (via pressing button), software (serial port or network interface)	RJ45 network interface, DB9F serial port	SMR-03V-BC	200 W max	4	3 A max	24 VDC	C13 220 VAC interface
MV-LE200-120W24-4TD	Digital, constant voltage	Continued, trigger	Control panel (via pressing button), software (serial port or network interface)	RJ45 network interface, DB9F serial port	SMR-03V-BC	120 W max	4	3 A max	24 VDC	C13 220 VAC interface
MV-LE200-48W24-2D	Digital, constant voltage	Continued, trigger	Control panel (via pressing button), software (serial port)	DB9F serial port	SMR-03V-BC	48 W max	2	2 A max	24 VDC	5.08 mm × 2 terminal block

| Input voltage	Input current	Trigger mode	Trigger in	Weight	Temperature	Cooling mode	Applicable product
100 ~ 240 VAC, 50/60 Hz	2.1 A(115 VAC), 1.2 A(230 VAC)	External trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	Approx. 795 g	0~40°C	Fan cooling	Ring lighting, bar lighting, flat lighting, coaxial lighting, etc.
24 VDC	2.5 A	External trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	Approx. 235 g	0~40°C	Fan cooling	Ring lighting, bar lighting, flat lighting, coaxial lighting, etc.

Input voltage	Input current	Trigger mode	Trigger in	Trigger out	Weight	Temperature	Cooling mode	Applicable product
100 ~ 240 VAC, 50/60 Hz	1.8 A (115VAC), 1 A (230VAC)	External trigger and internal trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	High level 10 VDC to 24 VDC, low level 0 VDC to 2 VDC	Approx. 732.7 g	0~40°C	Fan cooling	Ring lighting, bar lighting, flat lighting, coaxial lighting, etc.
100 ~ 240 VAC, 50/60 Hz	2.1 A (115VAC), 1.2 A (230VAC)	External trigger and internal trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	High level 10 VDC to 24 VDC, low level 0 VDC to 2 VDC	Approx. 732.7 g	0~40°C	Fan cooling	Ring lighting, bar lighting, flat lighting, coaxial lighting, etc.
24 VDC	2.5 A	External trigger and internal trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	High level 10 VDC to 24 VDC, low level 0 VDC to 2 VDC	Approx. 187.2 g	0~40°C	Fan cooling	Ring lighting, bar lighting, flat lighting, coaxial lighting, etc.

Dimension
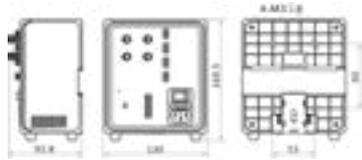
MV-LE200-200W24-4TD, MV-LE200-120W24-4TD
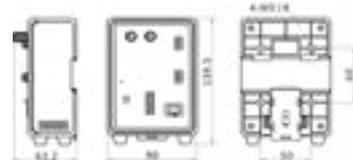

MV-LE200-48W24-2D

Unit:mm

■ Digital Constant Current Light Controller

MV-LE201 digital light controller supports a variety of variable current control mode of light source. It adopts control panel buttons and display screen, and provides serial port or network interface communication. It has features of stable performance and flexible functions. The digital light controller helps users realize fast and convenient deployment of light source on site.

Specifications

| Model	Drive mode	Lighting mode	Dimming mode	Console interface	Lighting output connector	Output power	Channel	Output current for each channel	Output current	Power supply interface
MV-LE201-10W5-2D	Digital, constant current	Continued, trigger	Control panel(via pressing button), software (serial port)	DB9F serial port	SMR-03V-BC	10 W max	2	1 A max	2 A max	24 VDC terminal block
MV-LE201-200W48-2TD	Digital, constant current	Continued, trigger	Control panel (via pressing button), software (serial port or network interface)	RJ45 network interface, DB9F serial port	19M-8H	200 W max	2	4 A max	4 A max	C13 220 VAC interface
MV-LE201-500W48-2TD	Digital, constant current	Continued, trigger	Control panel (via pressing button), software (serial port or network interface)	RJ45 network interface, DB9F serial port	19M-8H	500 W max	2	8 A max	10 A max	C13 220 VAC interface
MV-LE201-750W48-2TD	Digital, constant current	Continued, trigger	Control panel (via pressing button), software (serial port or network interface)	RJ45 network interface, DB9F serial port	19M-8H	750 W max	2	8 A max	15 A max	C13 220 VAC interface

Dimension
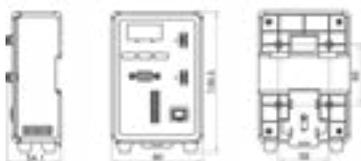
MV-LE201-10W5-2D
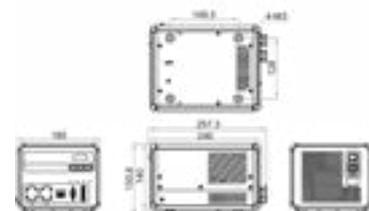
MV-LE201-200W48-2TD

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Input voltage	Input current	Trigger mode	Trigger in	Trigger out	Weight	Temperature	Cooling mode	Applicable product
24 VDC	0.5 A/24 VDC	External trigger and internal trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	High level 10 VDC to 24 VDC, low level 0 VDC to 2 VDC	240 g	0~40°C	Natural cooling	Spot lighting
100 ~ 240 VAC, 50/60 Hz	1.8 A/115 VAC 1 A/230 VAC	External trigger and internal trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	High level 10 VDC to 24 VDC, low level 0 VDC to 2 VDC	2070 g	0~40°C	Fan cooling	Line-scan lighting
100 ~ 240 VAC, 50/60 Hz	5.3 A/115 VAC 2.65 A/230 VAC	External trigger and internal trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	High level 10 VDC to 24 VDC, low level 0 VDC to 2 VDC	5000 g	0~40°C	Fan cooling	Line-scan lighting
100 ~ 240 VAC, 50/60 Hz	8.2 A/115 VAC 3.9 A/230 VAC	External trigger and internal trigger	High level 4.5 VDC to 24 VDC, low level 0 VDC to 2 VDC	High level 10 VDC to 24 VDC, low level 0 VDC to 2 VDC	5300 g	0~40°C	Fan cooling	Line-scan lighting
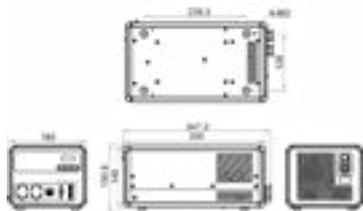
MV-LE201-500W48-2TD、MV-LE201-750W48-2TD

Unit:mm

Cable

■ Data Cable

Key Features
- Rich interfaces and types.
- Including GigE, 10GigE, USB3.0, Camera Link, CoaXPress and more.
- various lengths are available to meet the needs of different scenarios.
- High stability of data transmission.
- Some cables have motion performance, which can support motion scenes such as drag chains and robotic arms.

Specifications

Interface type	Wire type	Model
USB3.0 Cables	Standard	MV-ACU3-MBMs-AM-ST
	Standard (angled)	MV-ACU3-MBMs(down)-AM-ST
	Flexible	MV-ACU3-MBMs-AM-FL
	Super flexible (AOC)	MV-ACU3-MBMs-AM-SF
GigE Cables	Standard	MV-ACG-RJ45s-RJ45-ST
	High flexible	MV-ACG-RJ45s-RJ45-HF
	Super flexible	MV-ACG-RJ45s-RJ45-SF
	Standard (angled)	MV-ACG-RJ45s(up)-RJ45-ST
	High flexible (angled)	MV-ACG-RJ45s(up)-RJ45-HF
10GigE Cables	Standard	MV-AC10G-RJ45s-RJ45-ST
	High flexible	MV-AC10G-RJ45s-RJ45-HF
10GigE Optical Fiber Jumper Cables	Standard	MV-AC10G-2LC-2LC-ST
10GigE Optical Fiber Module	Standard SPF+ module	MV-AC10G-SFP-850-LC
Camera Link Cables	Standard	MV-ACCL-SDR-SDR-ST
	High flexible	MV-ACCL-SDR-SDR-HF
	High flexible	MV-ACCL-SDR-MDR-HF
CoaXPress Cables	Standard CXP-6	MV-ACXP6-DIN-DIN-ST
	Standard CXP-6	MV-ACXP6-DIN-BNC-ST
	High flexible CXP-6	MV-ACXP6-DIN-DIN-HF
	High flexible CXP-6	MV-ACXP6-DIN-BNC-HF
	High flexible CXP-6	MV-ACXP6-DIN-HDBNC-HF
	Standard CXP-12	MV-ACXP12-HDBNC-HDBNC-ST
	High flexible CXP-12	MV-ACXP12-HDBNC-HDBNC-HF

■ Camera Power Supply & IO Line

Key Features
- Rich interfaces and varieties.
- Including P7 6pin/P10 12pin and M12 and other types of aviation connector
- A variety of lengths are available to meet the needs of different scenarios.
- Some cables have motion performance, which can support motion scenes such as drag chains and robotic arms.

Specifications

Interface type	Wire type	Model
P7 6pin I/O & Power Cables	Standard	MV-ACP-H6p-open-ST
	High flexible	MV-ACP-H6p-open-HF
	Super flexible	MV-ACP-H6p-open-SF
	Standard (angled)	MV-ACP-H6p(left)-open-ST
	High flexible (angled)	MV-ACP-H6p(left)-open-HF
P10 12pin I/O & Power Cables	Standard	MV-ACP-H12p-open-ST
	High flexible	MV-ACP-H12p-open-HF

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End A connector	End B connector	Length
Micro-B male(screw)	A male	0.5m/1m/2m/3m
Micro-B male(screw/down)	A male	0.5m/3m
Micro-B male(screw)	A male	3m
Micro-B male(screw)	A male	3m/5m/7m/10m/15m/20m
RJ45(screw)	RJ45	1m/3m/5m/7m/10m/15m/30m/60m
RJ45(screw)	RJ45	3m/5m/7m/10m/15m/30m
RJ45(screw)	RJ45	3m/5m/7m/10/15m
RJ45(screw/up)	RJ45	3m/5m/15m
RJ45(screw/up)	RJ45	3m/5m/15m
RJ45(screw)	RJ45	3m/5m/10m
RJ45(screw)	RJ45	3m/5m/10m
2LC	2LC	3m/5m/10m
-	2LC	-
SDR26	SDR26	3m/5m/7m
SDR26	SDR26	3m/5m/7m
SDR26	MDR26	3m/5m/7m
Din 1.0/2.3	Din 1.0/2.3	3m/5m/10m
Din 1.0/2.3	BNC	3m/5m/10m
Din 1.0/2.3	Din 1.0/2.3	3m/5m/10m
Din 1.0/2.3	BNC	3m/5m/10m
Din 1.0/2.3	HD-BNC	3m/5m/10m
HD-BNC	HD-BNC	3m/5m/10m
HD-BNC	HD-BNC	3m/5m/10m

End A connector	End B connector	Length
6pin P7 female	6pin open	1m/3m/5m/7m/10m/15m/30m/60m
6pin P7 female	6pin open	3m/5m/7m/10m/15m/30m
6pin P7 female	6pin open	3m/5m/7m/10m/15m
6pin P7 female(left)	6pin open	3m/5m/15m
6pin P7 female(left)	6pin open	3m/5m/15m
12pin P10 female	12pin open	3m/5m/7m/10m/20m
12pin P10 female	12pin open	3m/5m/7m/10m

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119

■ Industrial Camera Client and Software Development Kit

The industrial camera client and software development kit is based on the GenICam standard and follows the GigE Vision, USB3 Vision, Camera Link, and CoaXPress protocols. The user can connect the industrial camera through the client or SDK, collect the camera image, and obtain and set the camera parameters. The software development kit contains SDK and sample programs, which can meet the diverse needs of users for secondary development.

Performance characteristics

- High-performance GEV and U3V drivers improve image data transmission and processing capabilities.
- Provide GenTL standard library to access to industrial cameras, such as CoaXPress interface cameras, greatly reducing the development workload.
- Abundant API interfaces are convenient for users to carry out secondary development quickly and effectively.
- Integrate a variety of ISP algorithms to help users get the most appropriate image through image preprocessing.
- Support the matching access of third-party software and provide DirectShow development kit.
- Diverse sample programs, source code, and development documentation for quick access.
- Provide deep customization of API interface and UI interface
- Provide frame grabber SDK interface library and sample programs to support the control and image collection of GeV, Camera Link, CoaXPress and other self-developed frame grabber.

| Supported Platforms	Supported Programing Languages
Windows 32/64bits X86/ARM Linux 32/64bits MacOS 64bits Android System	C C++ C# VB.NET PYTHON Delphi JAVA

MVS

Download

Industrial camera client and software development kit can be downloaded by visiting the website of Hikrobot. http://www.hikrobotics.com/service/soft.htm?type=1

Here is the QR code for the download link:

VM Algorithm Development Platform

Algorithm development platform is a machine vision software independently developed by Hikrobot, which is dedicated to providing customers with algorithm tools to quickly solve vision applications, and can meet machine vision applications such as visual positioning, size measurement, defect detection and information recognition.
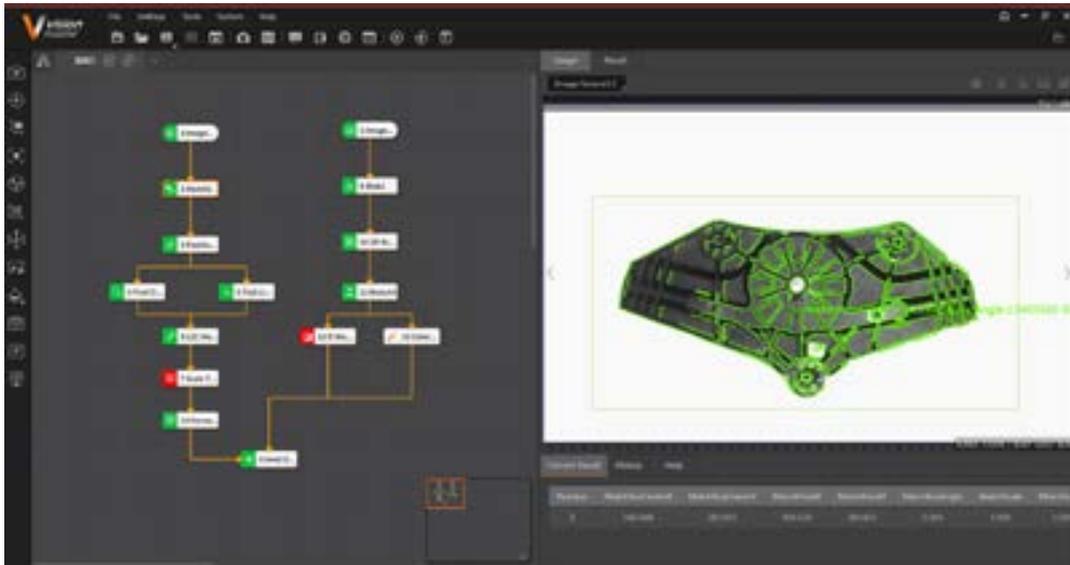
Features

- It consists of nearly a thousand completely self-developed image processing operators and a variety of interactive development tools, including 140+ module tools, supporting a variety of operating systems and image acquisition hardware devices, which can meet the needs of positioning, measurement, identification and detection in the field of machine vision applications.
- Fully graphical interactive interface, function icons are intuitive and easy to understand. Dragging operation can quickly set up visual scheme. Module operation status is independently identified and displayed in real time.
- Users can create visual solutions according to their needs, customize the running interface, and integrate background images or company logos on the running interface to meet the personalized needs of customers.
- Compatible with GigE Vision and USB3 Vision protocol standards, allowing access to multiple camera brands. Support local image and camera real-time image processing.
- The secondary development is simple and easy to use. The simplified interface can save 90% of the code. The new tool can be imported into Visual Studio with one key. It supports the interface development of QT, MFC, WPF and WinForm.
- Support the development of user-defined modules. Users can directly drag and use the user-defined algorithm after it is packaged as a VM module.
- Support TCP/IP, ModBus, serial port, UDP, Ethernet/IP and other common industrial communication protocols, compatible with the communication of mainstream PLC models.

Positioning and measuring tools

Accurately and efficiently locate any geometric element in the image with 1/16 pixel accuracy.

- Efficient template matching tool to overcome differences in sample translation, rotation, scaling, and illumination.
- Quickly and accurately find the position of circles, lines, blobs, edges, vertices, and other geometric objects.
- Accurately measure shapes, dimensions, areas, distances, angles, intersections, and other geometric properties.
- It can be used in robot guidance and other vision tools to provide position information and presence information.

Trait matching

Blob analysis

Circle search

Edge intersection

Edge distance measurement

Rectangle search

Parallel lines search

Peak search

C2C measurement

P2C measurement

Circle fit

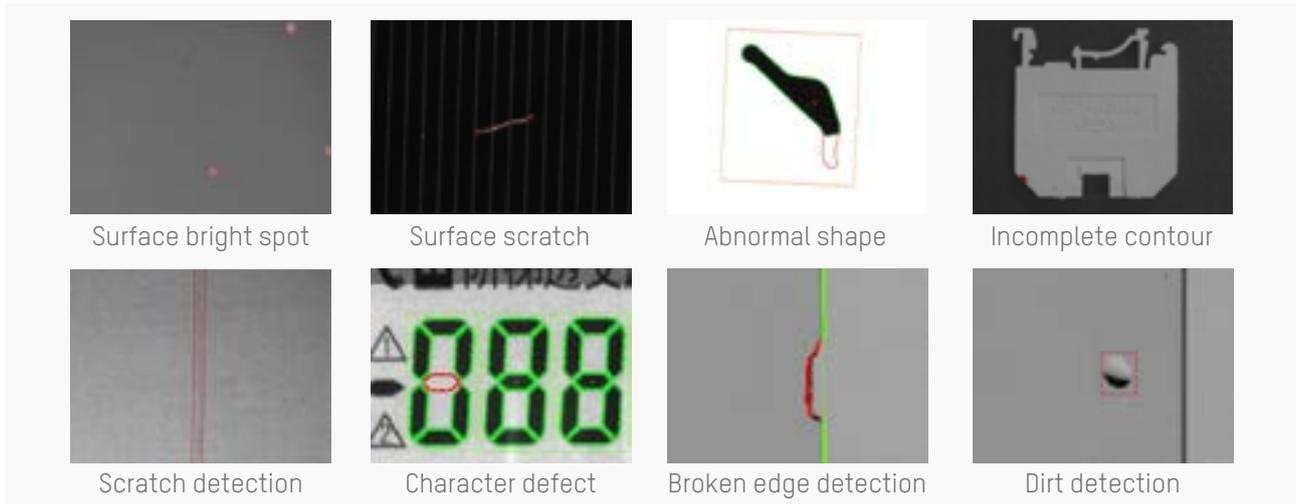Straight line fit

Identification tools

- Fast and accurate reading of digital information code.
- OCR algorithm based on deep learning can adapt to the recognition of complex background, low contrast, deformation and other characters.
- One-dimensional code and two-dimensional code of various types can be identified with different positions, angles and illumination. The influence of image distortion can be effectively overcome.
- Provides continuous, accurate, high-speed reading of ID information for part tracking.
- Support multiple VeriCode accurate identification in case of strong interference.
- It supports CPU and GPU versions of deep learning code reading algorithm, and also carries out accurate positioning and recognition in complex background.

One-dimensional code

Two-dimensional code

OCR

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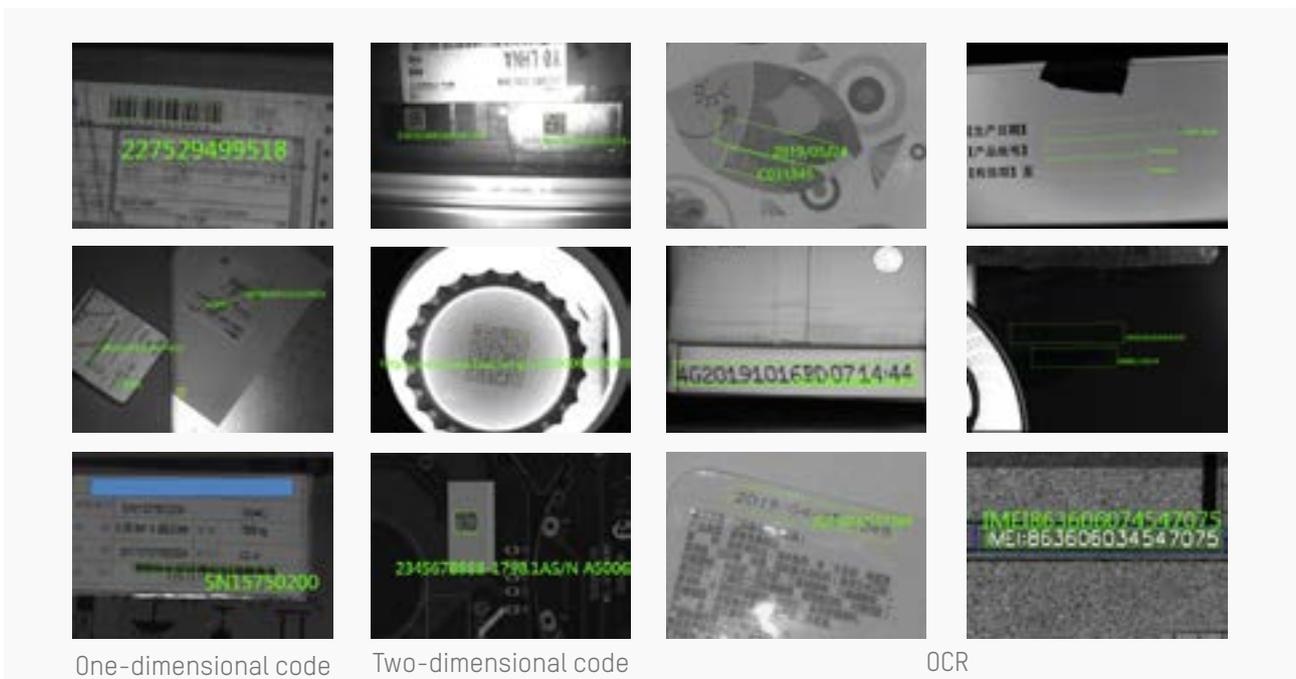
Defect detection tool

Accurately identify defects on the surface, shape and contour of the workpiece.

- Based on deep learning technology, it can detect fine surface scratches and spots, and overcome the interference of surface texture, color and noise.
- Accurate detection of workpiece shape and contour defects, can overcome the interference of burrs, color, noise.
- Reliable tool for comparing standard parts to locate small differences in workpiece.

Surface bright spot

Surface scratch

Abnormal shape

Incomplete contour

Scratch detection

Character defect

Broken edge detection

Dirt detection

List of algorithm platform tools

Toolbox	Enumeration Of Tools
Acquisition (5)	Image Source, Multi-Image Acquisition, Image Output, Image Buffer, Light Source
Locating (24)	High-Precision Match, Fast Match, Gray Model Match, Mark Locating, Circle Search, Line Search, BLOB Analysis, Caliper, Edge Search, Position Fixture, Rectangle Search, Peak Search, Edge Intersection, Parallel Line Search, Quadrilateral Search, Line Search Group, Multi-Line Search, Blob Label Analysis, Path Extraction, Find Angle Bisector, Find Median Line, Calculate Parallel Line, Find Vertical Line, Target Tracking
Image Generation (3)	Circle Fit, Line Fit, Geometry Generation
Measurement (10)	Line-to-Circle Measurement, Circle-to-Circle Measurement, Point-to-Circle Measurement, Point-to-Line Measurement, Line-to-Line Measurement, Point-To-Point Measurement, Intensity Measurement, Edge Distance Measurement, Pixel Count, Histogram
Recognition (11)	2D BcR, BcR, OCR, DL Character Recognition G/C, DL Code Reading G/C, DL Character Locating G/C, DL Single Character Detection G/C
Calibration (9)	Calibration Board Calibration, Camera Mapping, N-point Calibration, Translation Calibration, Distortion Calibration, Mapping Calibration, N-image Calibration, Load Calibration, Rotate Calibration
Deep Learning (13)	Dl Image Segmentation G/C, Dl Classification G/C, Dl Object Detection G/C, Dl Image Retrieval G/C, Dl Anomaly Detection G/C, Dl Instance Segmentation G/C, Dl Unsupervised Segmentation G
Calculation (11)	Single Point Alignment, Single Point Grab, Single Point Map Alignment, Single Point Rectify, Calibration Transformation, Point Set Alignment, Rotation Calculate, Line Alignment, Scale Transformation, Variable Calculation, Coordinate Transform
Image Processing (20)	Image Processing Combination, Image Morphology, Image Binarization, Image Filtering, Image Enhancement, Distortion Correction, Image Computing, Image Clarity Estimation, Image Fixture, Shading Correction, Image Resize, Affine Transformation, Ring Expansion, Copy Fill, Frame Mean, Normalization, Image Correction, Geometric Transformation, Image Stitching, Multi-image Fusion
Split Combination (6)	Divide Image, 2D Array Correct, Label Filter, Box Merge, Box Overlap, Box Filter
Color Processing (4)	Color Extraction, Color Measurement, Color Transformation, Color Recognition
Defect Detection (13)	OCV, Surface Defect Filter, Arc Edge Defect Detection, Line Edge Defect Detection, Arc-pair Defects Detection, Line-pair Defects Detection, Edge Combination Defect Detection And Edge-pair Combination Defect Detection Respectively, Edge Model Defect Detection, Edge-pair Model Defect Detection, Anomaly Detection, Edge Position Trend Analysis, Edge Pair Position Trend Analysis
Logic Tools (15)	Condition Branch, Condition Detection, Branch, Branch String, Save Text, Logic, Format, String Comparison, Shell, Group, Point Set, Time-consuming Statistics, Data Set, Trigger Module, Graphics Collection
Communication (5)	Receive Data, Send Data, Camera IO(Support TCP/IP, Modbus, UDP, Serial Port, Ethernet/IP And Other Common Industrial Protocols; Support Communication With Mainstream Brand PLC), Protocol Analysis, Protocol Assembly

Applicable Industries

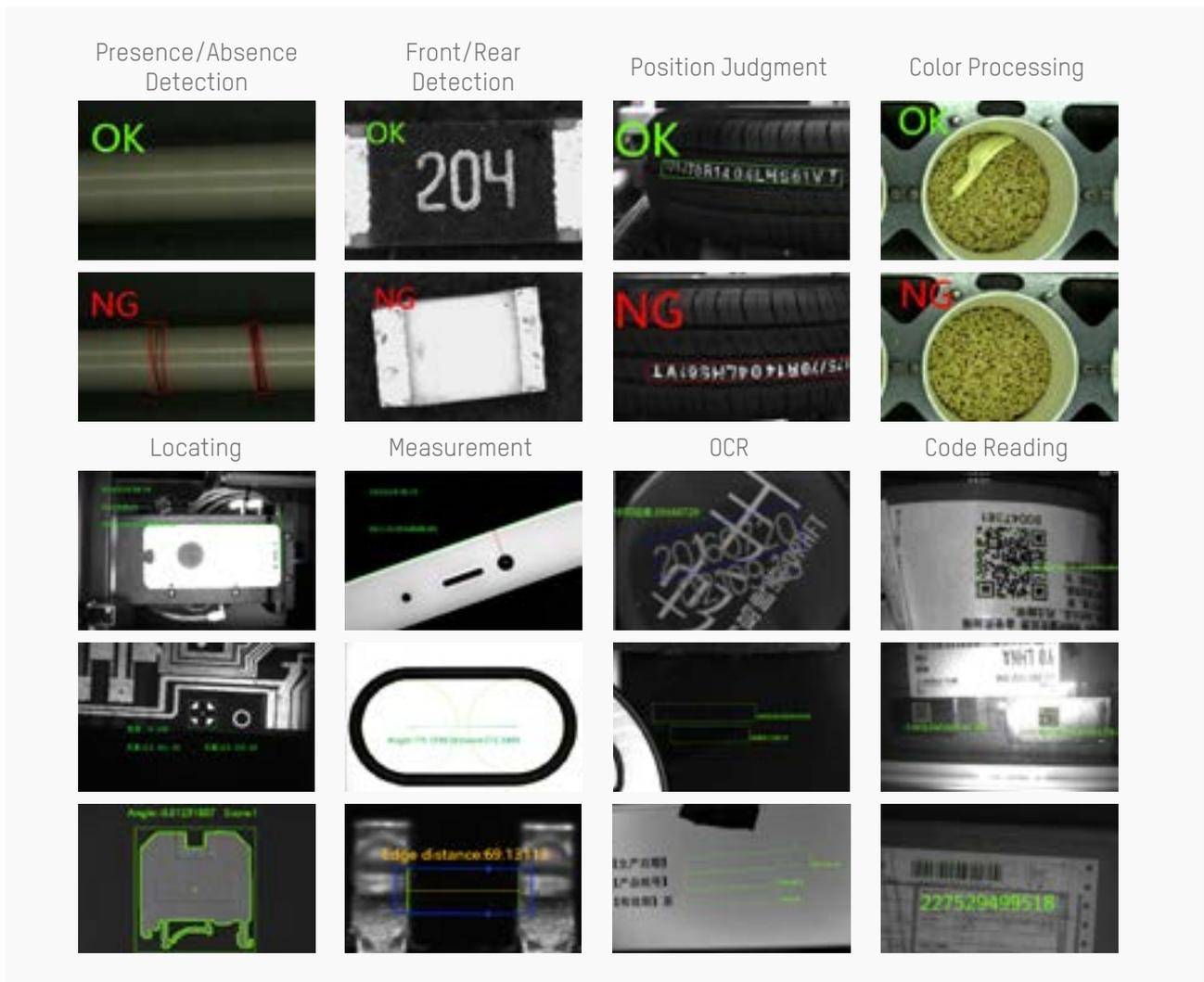3C Manufacturing

Food/Medicine Production

Express Logistics

Printing and Textile

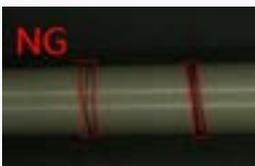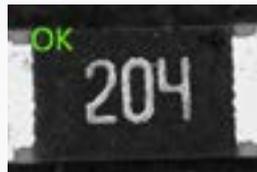Car Manufacturing

New Energy

Classic Application

Presence/Absence Detection	Front/Rear Detection	Position Judgment	Color Processing
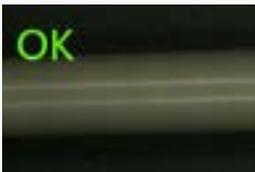
Locating	Measurement	OCR	Code Reading
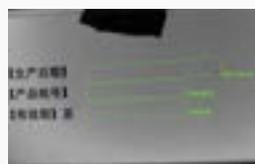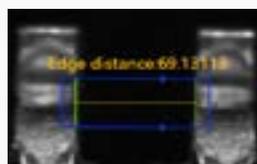
CodePlatform

Hikrobot's CodePlatform is a comprehensive code-reading software platform, including data collection, image processing, communication output, data statistics and other functions. With strong compatibility and rich functions, the platform meets most demands of common code-reading application scenarios.

- **Multi-business scenarios:** Modular software design, high expansion, suitable for multi-business scenarios such as express logistics, pallet access door code reading, and on-site logistics workstations.
- **Rich interface information:** Including real-time information area, picture display area, history record area, menu configuration area, running status display, quick function area, user rights management, etc., rich in information.
- **Product access:** Can access all series cameras such as code reading cameras, volume cameras, panoramic industrial cameras, and support multi-camera combination applications.
- **Convenient data connection:** Supports the upgrade of a separate protocol gateway plug-in, and supports highly customized business output.
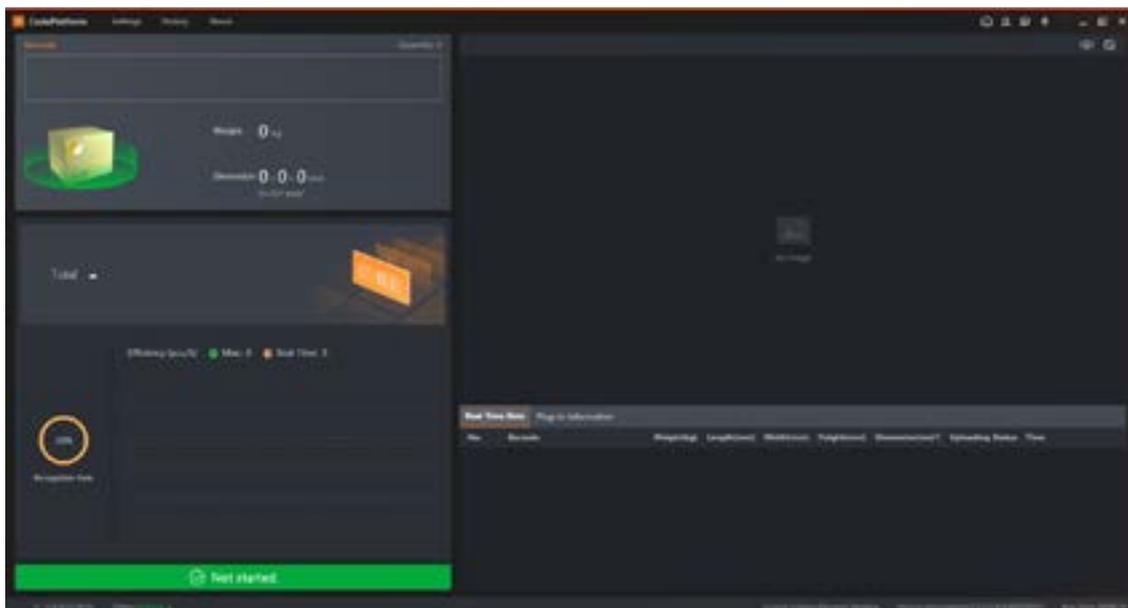
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Vision for Imagination
MACHINE VISION PRODUCT CATALOG

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