Vision for Imagination

MACHINE VISION STANDARD PRODUCT CATALOG

www.hikrobotics.com

HIKROBOT

Overview

Area Scan Camera P8

- Complete resolution distribution: 0.4MP-604MP
- Equipped data interface: GigE, USB3.0, 10GigE, Camera Link, CoaXPress, XoFLink

Line scan camera P24

- Resolution distribution: 2k, 4k, 8k, 16k
- Equipped data interface: GigE, Camera Link, XoFLink

Board Level Camera P28

- Single-board or multi-board stacking design, suitable for application scenarios with high space requirements
- Equipped data interface: GigE, USB3.0

Industrial Infrared Camera P32

- Long Wave: The responsive wavelength range covers 8-14μm; visually present temperature information and measure temperature characteristics
- Short Wave: Equipped with InGaAs sensors, covering the visible light to short wave range of 0.4um-1.7um

Frame Grabber P34

- Rich data interfaces are optional include GigE, 10GigE, USB3.0, Camera Link, CoaXPress, XoFLink

Lens P38

- Comprehensive coverage of format and focal length
- Ultra-high image resolution and consistency

Lighting P48

- Various shapes and wide range of illuminance, meeting the needs of conventional visual lighting applications
- High uniformity and consistency

Light Controller P68

- Various Drive mode, stable and reliable performance
- Compatible with all light source product series

Cable P74

- Support common interface types and lengths
- Provide stable power supply and data tranimission

CONTENTS

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.

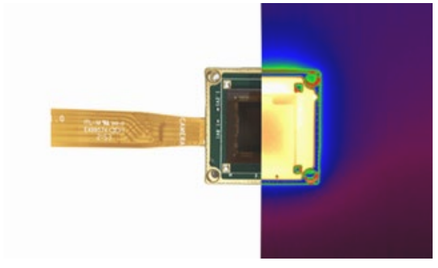
Machine Vision System

Product Background

An excellent machine vision system needs to have basic features such as stable acquisition, efficient processing, execution accuracy, and high-quality images. In a typical image acquisition system, there are light source, lens, camera, acquisition protocols, data transmission and data processing. The camera cooperates with the lens and lighting unit to ensure high-quality original images and maximize the difference between target features and background, and carry out stable transmission and collection through a suitable transmission protocol. Finally, the target feature information is extracted from the background through software and perform efficient algorithm processing to obtain the target image.
Hikrobot is committed to providing customers with one-stop procurement services for visual systems. The products cover industrial area scan cameras, line scan cameras, board-level cameras, infrared cameras, and accessories such as frame grabbers, lenses, light sources, and cables. Realize the construction of visual systems for customers to meet various application needs in various industries.

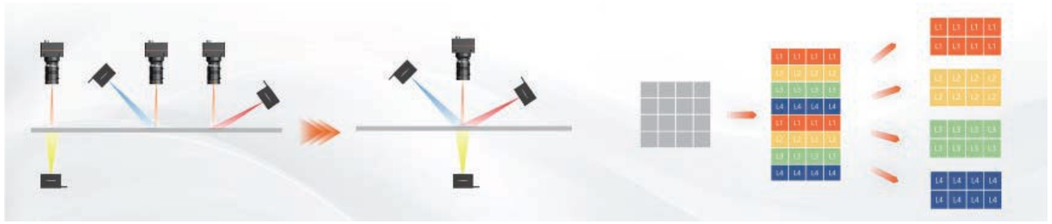
Product Features

- More spectral coverage, suitable for rich application scenarios.

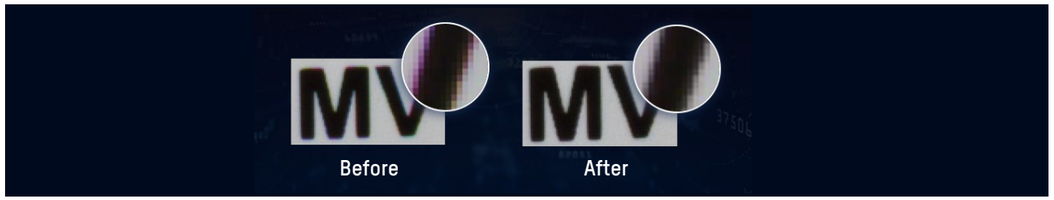


- Sequencer function support periodically acquire images according to the preset parameters and improve the acquisition efficiency.

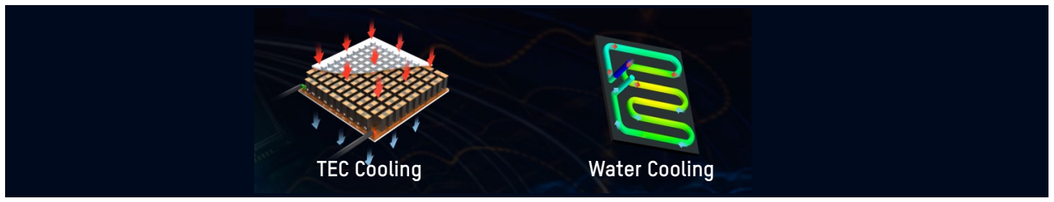
- The camera with multi-field image function can capture variety of defects combined with multiple lightings synchronously, effectively reducing the number of work stations and the cost of visual solutions.



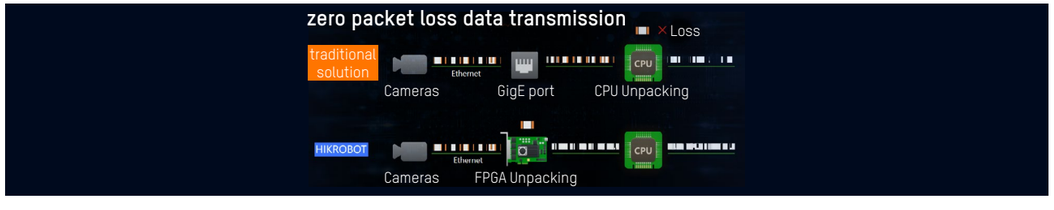
- Purple edge correction algorithm effectively suppressing image edge dispersion.



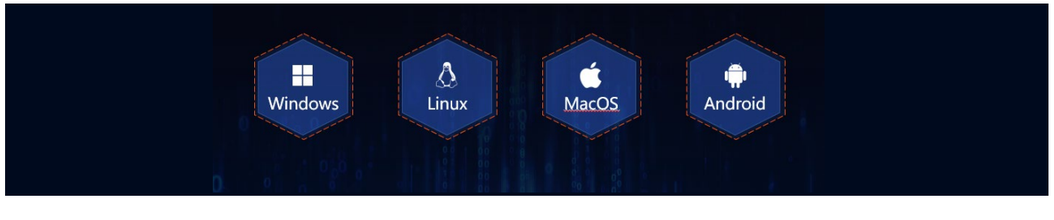
- The two methods will help the core components in camera to actively cool down and suppress thermal noise.



- Featured and innovative functions of frame grabber, no packet loss, low load at HOST end.



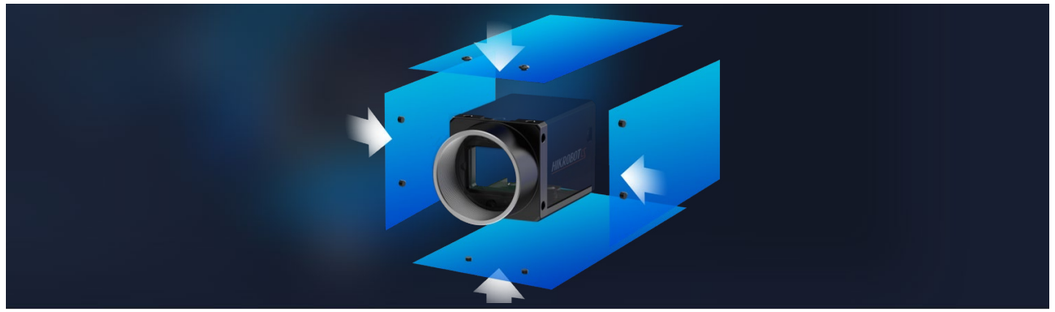
- The SDK compatibility is strong and adaptable to various development platforms.



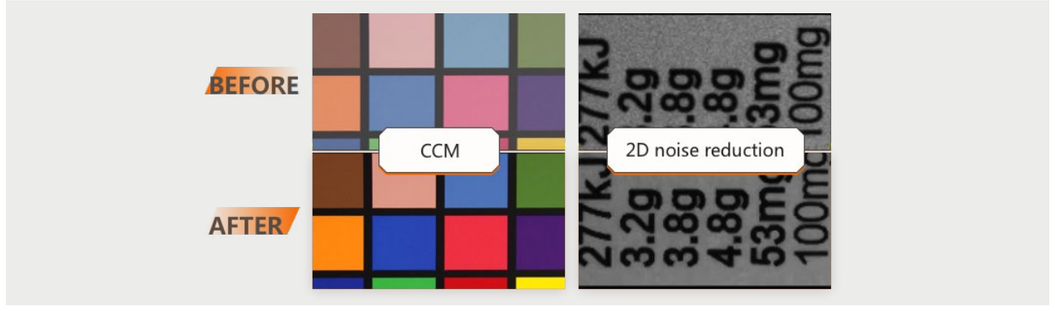
Area Scan Camera

CS Series Area Scan Camera

HIKROBOT released the 2nd generation of CS Series with technological breakthroughs from products appearance design, R&D to production management, which gives an upgraded experience to all end users.



Evolved performance, various scenarios adaptable



Upgraded imaging, built-in algorithms

CS Series GigE Area Scan Camera

CE KC RoHS

Specifications

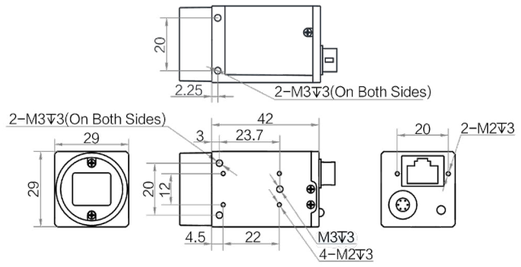
Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption
MV-CS004-10GM	IMX297	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.2 W@12 VDC
MV-CS004-10GC	IMX297	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.5 W@12 VDC
MV-CS004-11GM	IMX287	1/2.9"	6.9 μm	Global	720 × 540	312.9 fps	NE: 1 μs~10 sec	Typ. 2.2 W@12 VDC
MV-CS004-11GC	IMX287	1/2.9"	6.9 μm	Global	720 × 540	312.9 fps	NE: 1 μs~10 sec	Typ. 2.4 W@12 VDC

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption
MV-CS013-60GN *	HK	2/3"	6.9 um	Global	1224 × 1024	60 fps	NE: 5 μs~10 sec	Typ. 2.3 W@12 VDC
MV-CS016-10GM	IMX296	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.4 W@12 VDC
MV-CS016-10GC	IMX296	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.5 W@12 VDC
MV-CS020-10GM	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	60 fps	USE: 1 μs~5 μs NE: 6 μs~10 sec	Typ. 2.8 W@12 VDC
MV-CS020-10GC	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	60 fps	USE: 1 μs~5 μs NE: 6 μs~10 sec	Typ. 3.0 W@12 VDC
MV-CS020-21GM	OnSemi	2/3"	4.5 μm	Global	1920 × 1200	51.3 fps	USE: 9 μs~59 μs NE: 60 μs~10 sec	Typ. 2.8 W@12 VDC
MV-CS023-10GM	IMX249	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	NE: 15 μs~10 sec	Typ. 2.2 W@12 VDC
MV-CS023-10GC	IMX249	1/1.2"	5.86 μm	Global	1920 × 1200	41 fps	NE: 15 μs~10 sec	Typ. 2.6 W@12 VDC
MV-CS032-10GM	IMX265	1/1.8"	3.45 μm	Global	2048 × 1536	38.1 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.2 W@12 VDC
MV-CS032-10GC	IMX265	1/1.8"	3.45 μm	Global	2048 × 1536	38.1 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.4 W@12 VDC
MV-CS050-10GM	IMX264	2/3"	3.45 μm	Global	2448 × 2048	24.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.6 W@12 VDC
MV-CS050-10GC	IMX264	2/3"	3.45 μm	Global	2448 × 2048	24.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.9 W@12 VDC
MV-CS050-10GM-PRO	IMX264	2/3"	3.45 μm	Global	2448 × 2048	35.6 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.6 W@12 VDC
MV-CS050-10GC-PRO	IMX264	2/3"	3.45 μm	Global	2448 × 2048	35.6 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.9 W@12 VDC
MV-CS050-20GM	XGS5000	2/3"	3.2 μm	Global	2592 × 2048	22.7 fps	USE: 23 μs~99 μs NE: 100 μs~10 sec	Typ. 2.5 W@12 VDC
MV-CS050-20GC	XGS5000	2/3"	3.2 μm	Global	2592 × 2048	22.7 fps	USE: 23 μs~99 μs NE: 100 μs~10 sec	Typ. 2.7 W@12 VDC
MV-CS050-60GM	HK	2/3"	3.45 um	Global	2448 × 2048	23 fps	NE: 5 μs~10 sec	Typ. 2.3 W@12 VDC
MV-CS050-60GC	HK	2/3"	3.45 um	Global	2448 × 2048	23 fps	NE: 5 μs~10 sec	Typ. 2.5 W@12 VDC
MV-CS060-10GM	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	19.1 fps	NE: 25 μs~2.5 sec	Typ. 2.4 W@12 VDC

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption
MV-CS060-10GC	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	19.1 fps	NE: 25 μs~2.5 sec	Typ. 2.4 W@12 VDC
MV-CS060-10GM-PRO	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	NE: 25 μs~2.5 sec	Typ. 2.4 W@12 VDC
MV-CS060-10GC-PRO	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	NE: 25 μs~2.5 sec	Typ. 2.5 W@12 VDC
MV-CS200-10GM	IMX183	1"	2.4 μm	Rolling	5472 × 3648	5.9 fps	NE: 46 μs~2.5 sec	Typ. 2.4 W@12 VDC
MV-CS200-10GC	IMX183	1"	2.4 μm	Rolling	5472 × 3648	5.9 fps	NE: 46 μs~2.5 sec	Typ. 2.5 W@12 VDC

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

Dimension



Unit:mm

CS Series USB3.0 Area Scan Camera

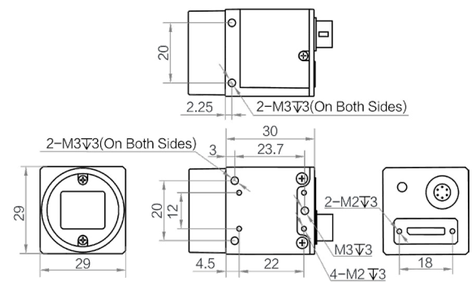
CE KC RoHS

Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption
MV-CS004-10UM	IMX287	1/2.9"	6.9 μm	Global	720 × 540	526.5 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.4 W@5 VDC
MV-CS004-10UC	IMX287	1/2.9"	6.9 μm	Global	720 × 540	526.5 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.6 W@5 VDC
MV-CS016-10UM	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249.1 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 3.0 W@5 VDC
MV-CS016-10UC	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249.1 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 3.3 W@5 VDC
MV-CS020-10UM	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	90 fps	USE: 1 μs~5 μs NE : 6 μs~10 sec	Typ. 2.3 W@5 VDC
MV-CS020-10UC	IMX430	1/1.7"	4.5 μm	Global	1624 × 1240	90 fps	USE: 1 μs~5 μs NE : 6 μs~10 sec	Typ. 2.4 W@5 VDC
MV-CS028-10UM	IMX421	2/3"	4.5 μm	Global	1936 × 1464	132.2 fps	USE: 1 μs~5 μs NE: 9 μs~10 sec	Typ. 2.8 W@5 VDC
MV-CS040-A0UM	HK	1"	5.5μm	Global	2048 × 2048	90.1 fps	NE: 30 μs~10 sec	Typ. 2.4 W@5 VDC
MV-CS040-A0UC *	HK	1"	5.5μm	Global	2048 × 2048	90.1 fps	NE: 30 μs~10 sec	Typ. 2.4 W@5 VDC
MV-CS050-10UM	IMX264	2/3"	3.45 μm	Global	2448 × 2048	90.1 fps	NE: 30 μs~10 sec	Typ. 2.4 W@5 VDC
MV-CS050-10UC	IMX264	2/3"	3.45 μm	Global	2448 × 2048	60 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.8 W@5 VDC
MV-CS050-60UM	HK	2/3"	3.45 um	Global	2448 × 2048	60 fps	NE: 5 μs~10 sec	Typ. 1.7 W@5 VDC
MV-CS050-60UC	HK	2/3"	3.45 um	Global	2448 × 2048	60 fps	NE: 5 μs~10 sec	Typ. 1.8 W@5 VDC
MV-CS060-10UM-PRO	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	59.6 fps	NE: 32 us~1 sec	Typ. 2.3 W@5 VDC
MV-CS060-10UC-PRO	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	59.6 fps	NE: 32 us~1 sec	Typ. 2.5 W@5 VDC
MV-CS200-10UM	IMX183	1"	2.4 μm	Rolling	5472 × 3648	19.2 fps	NE: 44 μs~0.83 sec	Typ. 2.3 W@5 VDC
MV-CS200-10UC	IMX183	1"	2.4 μm	Rolling	5472 × 3648	19.2 fps	NE: 44 μs~0.83 sec	Typ. 2.3 W@5 VDC

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

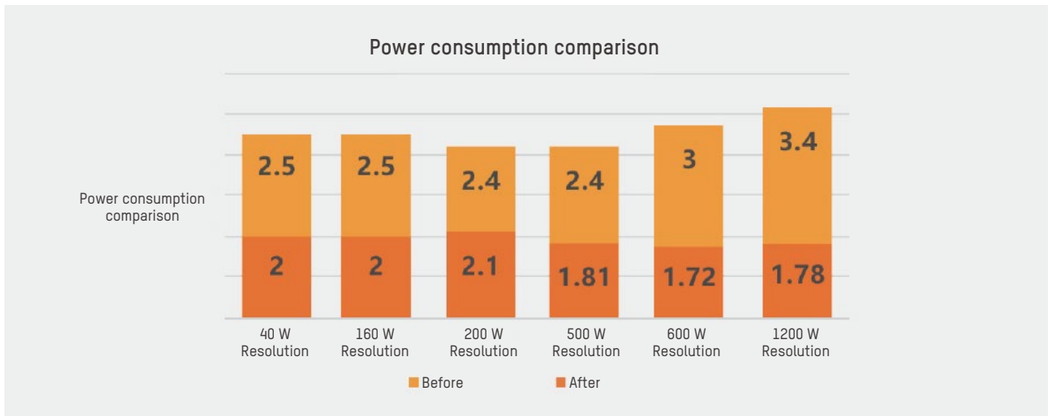
Dimension



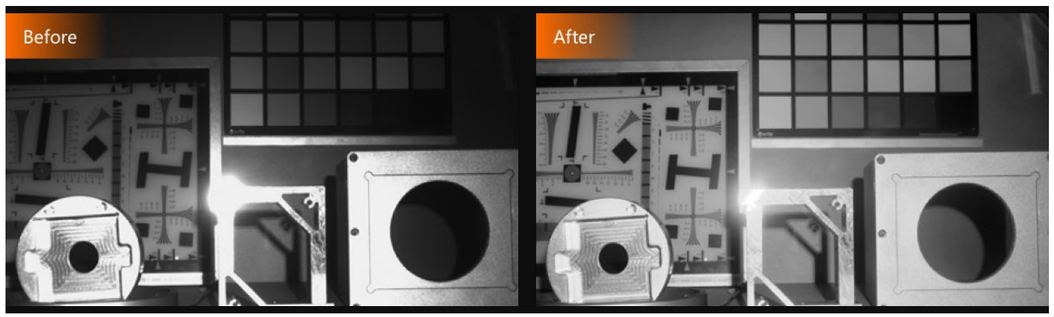
Unit:mm

CU Series Universal Industrial Camera

The CU series is designed with low power-consuming platform and stable performance, which creates a universal industrial camera product that satisfies the requirements for stability and necessary functions, helping users to obtain vision applications more easily.



Ultra-low power supply, stable performance



Built-in image preprocessing

CU Series GigE Area Scan Camera

CE KC RoHS

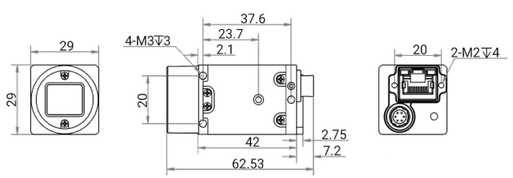
Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Label
MV-CU004-10GM	IMX297	1/2.9"	6.9 μm	Global	720 × 540	126.5 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2 W@12 VDC	A
MV-CU004-10GC	IMX297	1/2.9"	6.9 μm	Global	720 × 540	126.5 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2 W@12 VDC	A
MV-CU013-80GM	SS	1/2.7"	4.0 μm	Global	1280 × 1024	89.9 fps	NE: 31 μs~1 sec	Typ. 1.9 W@12 VDC	A
MV-CU013-80GC	SS	1/2.7"	4.0 μm	Global	1280 × 1024	89.9 fps	NE: 31 μs~1 sec	Typ. 1.9 W@12 VDC	A
MV-CU013-A0GM	HK	1/2''	4.8 μm	Global	1280 × 1024	91.3 fps	NE: 10 μs~10 sec	Typ. 1.8 W@12 VDC	A
MV-CU013-A0GC	HK	1/2''	4.8 μm	Global	1280 × 1024	91.3 fps	NE: 10 μs~10 sec	Typ. 1.8 W@12 VDC	A
MV-CU016-10GM	IMX296	1/2.9"	3.45 μm	Global	1440 × 1080	65.8 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2 W@12 VDC	A
MV-CU016-10GC	IMX296	1/2.9"	3.45 μm	Global	1440 × 1080	65.8 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2 W@12 VDC	A
MV-CU020-19GM	IMX290	1/2.8"	2.9 μm	Rolling	1920 × 1080	56 fps	NE: 64 μs~130 ms	Typ. 2.1 W@12 VDC	A
MV-CU020-19GC	IMX290	1/2.8"	2.9 μm	Rolling	1920 × 1080	56 fps	NE: 128 μs~260 ms	Typ. 2.1 W@12 VDC	A
MV-CU020-80GM *	SC235	1/2.6"	3.45 μm	Global	1600×1200	51 fps	NE: 24 μs~2.5 sec	Typ. 2.5 W@12 VDC	A
MV-CU020-80GC *	SC235	1/2.6"	3.45 μm	Global	1600×1200	51 fps	NE: 24 μs~2.5 sec	Typ. 2.5 W@12 VDC	A
MV-CU020-90GM	GMAX4002	1/1.7''	4 μm	Global	2048 × 1200	49 fps	NE: 4 us~10 sec	Typ. 1.9 W@12 VDC	A
MV-CU020-90GC	GMAX4002	1/1.7''	4 μm	Global	2048 × 1200	49 fps	NE: 4 us~10 sec	Typ. 2 W@12 VDC	A
MV-CU050-30GM	AR0521	1/2.5"	2.2 μm	Rolling	2592 × 1944	24 fps	NE: 21 μs~1 sec	Typ. 1.81 W@12 VDC	A
MV-CU050-30GC	AR0521	1/2.5"	2.2 μm	Rolling	2592 × 1944	24 fps	NE: 21 μs~1 sec	Typ. 1.81 W@12 VDC	A
MV-CU050-60GM	HK	1/2.5"	2.2 μm	Rolling	2592 × 1944	23.1 fps	NE: 24 μs~2.5 sec	Typ. 2.5 W@12 VDC	A
MV-CU050-90GM	GMAX2505	1/2"	2.5 μm	Global	2600 × 2160	21 fps	NE: 3 μs~10 sec	Typ. 2.3 W@12 VDC	B
MV-CU050-90GC	GMAX2505	1/2"	2.5 μm	Global	2600 × 2160	21 fps	NE: 3 μs~10 sec	Typ. 2.5 W@12 VDC	B

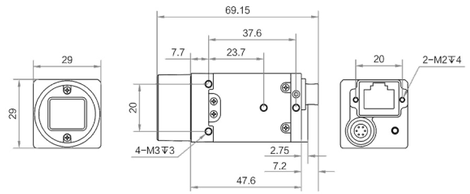
Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Label
MV-CU060-10GM	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	19.1 fps	NE: 25 μs~2.5 sec	Typ. 1.7 W@12 VDC	A
MV-CU060-10GC	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	19.1 fps	NE: 25 μs~2.5 sec	Typ. 1.72 W@12 VDC	A
MV-CU120-10GM	IMX226	1/1.7"	1.85 μm	Rolling	4024 × 3036	9.7 fps	NE: 34 μs~2 sec	Typ. 1.78 W@12 VDC	A
MV-CU120-10GC	IMX226	1/1.7"	1.85 μm	Rolling	4024 × 3036	9.7 fps	NE: 34 μs~2 sec	Typ. 1.82 W@12 VDC	A

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

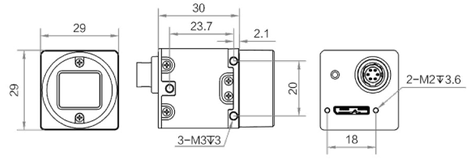
CU Series USB3.0 Area Scan Camera

CE KC RoHS

Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Label
MV-CU013-80UM	SS	1/2.7"	4.0 μm	Global	1280 × 1024	240 fps	30 μs~1 sec	Typ. 1.7 W@5 VDC	A
MV-CU013-80UC	SS	1/2.7"	4.0 μm	Global	1280 × 1024	240 fps	30 μs~1 sec	Typ. 1.7 W@5 VDC	A
MV-CU013-A0UM	HK	1/2"	4.8 μm	Global	1280 × 1024	201.4 fps	5 μs~10 sec	Typ. 1.79 W@5 VDC	A
MV-CU013-A0UC	HK	1/2"	4.8 μm	Global	1280 × 1024	201.4 fps	5 μs~10 sec	Typ. 1.81 W@5 VDC	A
MV-CU050-60UM	HK	1/2.5"	2.2 μm	Rolling	2592 × 1944	48.2 fps	12 μs~1.25 sec	Typ. 2.7 W@5 VDC	A
MV-CU050-90UM	GMAX2505	1/2"	2.5 μm	Global	2600 × 2160	58.8 fps	3 μs~10 sec	Typ. 2.1 W@5 VDC	B
MV-CU050-90UC	GMAX2505	1/2"	2.5 μm	Global	2600 × 2160	58.8 fps	3 μs~10 sec	Typ. 2.2 W@5 VDC	B
MV-CU060-10UM	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	59.6 fps	8 μs~1 sec	Typ. 1.9 W@5 VDC,USB	A
MV-CU060-10UC	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	59.6 fps	8 μs~1 sec	Typ. 1.9 W@5 VDC,USB	A
MV-CU120-10UM	IMX226	1/1.7"	1.85 μm	Rolling	4024 × 3036	29.2fps	20 μs~0.5 sec	Typ. 1.9 W@5 VDC	A
MV-CU120-10UC	IMX226	1/1.7"	1.85 μm	Rolling	4024 × 3036	29.2fps	20 μs~0.5 sec	Typ. 2.0 W@5 VDC	A

Dimension



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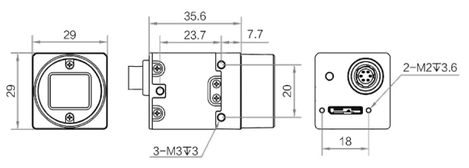
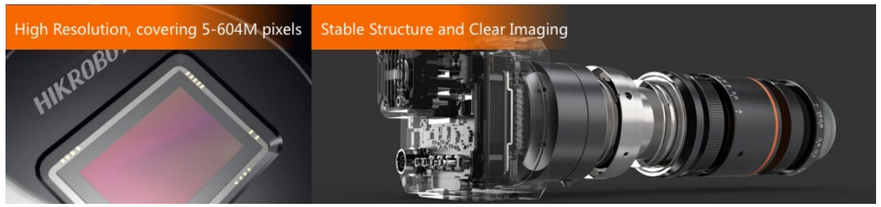


B

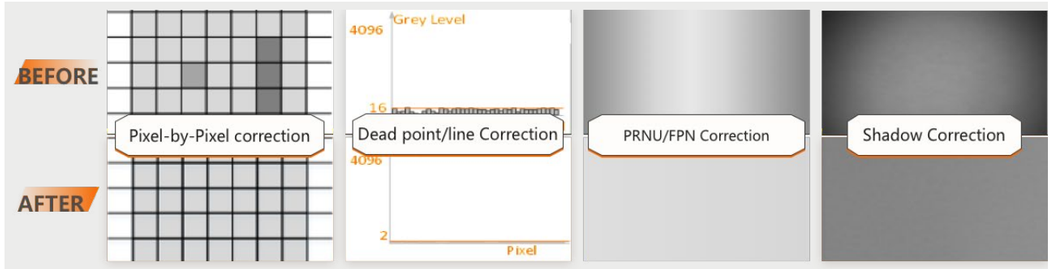
Unit:mm

CH Series Area Scan Camera

High-end product series designed for high-precision application and development in Panel, electronic semiconductor, new energy and other industries. which covers data interfaces of GigE, USB 3.0, 10 GigE, Camera Link, CoaXPress, XoFLink.



High-end area scan camera with high resolution coverage



Rich ISP algorithm

CH Series GigE Area Scan Camera

CE KC RoHS

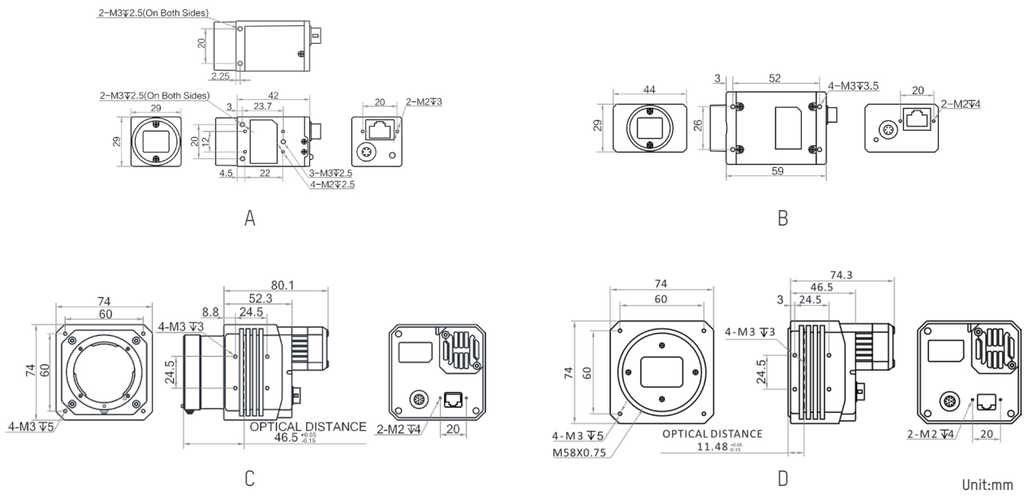
Dimension

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH089-10GM	IMX267	1"	3.45 μm	Global	4096 × 2160	13.7 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.3 W@12 VDC	C	A
MV-CH089-10GC	IMX267	1"	3.45 μm	Global	4096 × 2160	13.7 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.4 W@12 VDC	C	A
MV-CH100-60GM	HK	1"	3.45 μm	Global	4096 × 2460	12 fps	NE: 80 μs~10 sec	Typ. 3.1 W@12 VDC	C	B
MV-CH100-60GC	HK	1"	3.45 μm	Global	4096 × 2460	12 fps	NE: 80 μs~10 sec	Typ. 3.5 W@12 VDC	C	B
MV-CH120-10GM	IMX304	1.1"	3.45 μm	Global	4096 × 3000	9.4 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.9 W@12 VDC	C	A
MV-CH120-10GC	IMX304	1.1"	3.45 μm	Global	4096 × 3000	9.4 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 3.0 W@12 VDC	C	A
MV-CH120-20GM	XGS12000	1"	3.2 μm	Global	4096 × 3072	9.6 fps	USE: 52 μs~161 μs NE: 162 μs~10 sec	V2.6 W@12 VDC	C	A
MV-CH120-20GC	XGS12000	1"	3.2 μm	Global	4096 × 3072	9.6 fps	USE: 52 μs~161 μs NE: 162 μs~10 sec	Typ. 2.7 W@12 VDC	C	A

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH123-10GM *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	9.5 fps	USE: 3 us~33 us NE: 36 μs~2 S	Typ. 2.9 W@12 VDC	C	A
MV-CH123-10GC *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	9.5 fps	USE: 3 us~33 us NE: 36 μs~2 S	Typ. 3.0 W@12 VDC	C	A
MV-CH140-60GM	HK	1"	3 μm	Global	4708 × 2824	9 fps	NE: 80 μs~10 sec	Typ. 3.0 W@12 VDC	C	B
MV-CH140-60GC	HK	1"	3 μm	Global	4708 × 2824	9 fps	NE: 80 μs~10 sec	Typ. 3.5 W@12 VDC	C	B
MV-CH160-60GM	HK	1.1"	3.2 μm	Global	4000 × 4000	7.25 fps	NE: 12 μs~10 sec	Typ. 3.72 W@12 VDC	C	B
MV-CH250-90GM	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	NE: 12 μs~10 sec	Typ. 3.1 W@12 VDC	C	B
MV-CH250-90GC	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	NE: 12 μs~10 sec	Typ. 3.2 W@12 VDC	C	B
MV-CH250-90GN	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	4.5 fps	NE: 12 μs~10 sec	Typ. 3.1 W@12 VDC	C	B
MV-CH310-10GM	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	3.9 fps	USE: 3 us~33 us NE: 36 μs~2 Sec	Typ. 9 W@12 VDC	F M58	C D
MV-CH310-10GC	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	3.9 fps	USE: 3 us~33 us NE: 36 μs~10 Sec	Typ. 9 W@12 VDC	F M58	C D

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

Dimension



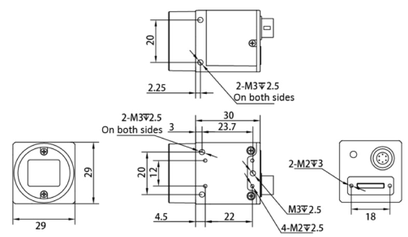
CH Series USB3.0 Area Scan Camera

Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH050-10UM	IMX250	2/3"	3.45 μm	Global	2448 × 2048	74.1 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 3.3 W@5 VDC	C	A
MV-CH050-10UC	IMX250	2/3"	3.45 μm	Global	2448 × 2048	74.1 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.8 W@5 VDC	C	A
MV-CH050-10UP	IMX250	2/3"	3.45 μm	Global	2448 × 2048	74.1 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 3.3 W@5 VDC	C	A
MV-CH089-10UM	IMX267	1"	3.45 μm	Global	4096 × 2160	32 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 3.27 W@5 VDC	C	B
MV-CH089-10UC	IMX267	1"	3.45 μm	Global	4096 × 2160	32 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 3.27 W@5 VDC	C	B
MV-CH120-10UM	IMX304	1.1"	3.45 μm	Global	4096 × 3000	30.5 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.9 W@5 VDC	C	A
MV-CH120-10UC	IMX304	1.1"	3.45 μm	Global	4096 × 3000	30.5 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.9 W@5 VDC	C	A
MV-CH120-20UM	XGS12000	1"	3.2 μm	Global	4096 × 3072	28 fps	USE: 52 μs~161 μs NE: 162 μs~10 sec	Typ. 2.9 W@5 VDC	C	A
MV-CH120-20UC	XGS12000	1"	3.2 μm	Global	4096 × 3072	28 fps	USE: 10 μs~56 μs NE: 57 μs~10 sec	Typ. 3.2 W@5 VDC	C	A
MV-CH123-10UM *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	28 fps	USE: 3 μs~33 μs NE: 36 μs~2 sec	Typ. 3.5 W@5 VDC	C	A
MV-CH123-10UC *	IMX545	1/1.1"	2.74 μm	Global	4096 × 3000	28 fps	USE: 3 μs~33 μs NE: 36 μs~2 sec	Typ. 3.5 W@5 VDC	C	A
MV-CH250-90UM	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	14 fps	NE: 12 μs~10 sec	Typ. 3.6 W@5 VDC	C	B
MV-CH250-90UC	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	14 fps	NE: 12 μs~10 sec	Typ. 3.6 W@5 VDC	C	B
MV-CH250-90VM *	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	30 fps	NE: 12 μs~10 sec	Typ. 4.5 W@5 VDC	C	C

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

Dimension



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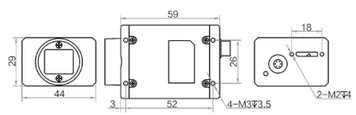

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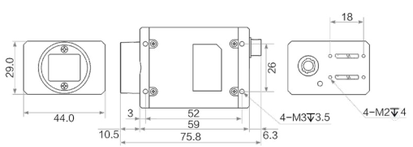


C

Unit:mm

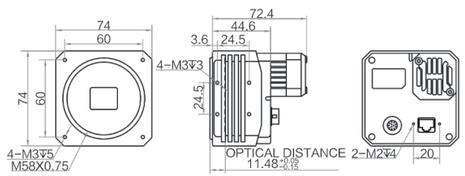
CH Series 10GigE Area Scan Camera

Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH120-15TM	IMX253	1.1"	3.45 μm	Global	4096 × 3000	68.3 fps	USE: 2 μs~14 μs NE: 15 μs~10 sec	Typ. 9.6 W@24 VDC	M58	A
MV-CH120-15TC	IMX253	1.1"	3.45 μm	Global	4096 × 3000	68.3 fps	USE: 2 μs~14 μs NE: 15 μs~10 sec	Typ. 10.1 W@24 VDC	M58	A
MV-CH240-10TM	IMX540	1.2"	2.74 μm	Global	5328 × 4600	35.1 fps	USE: 1 μs~7 μs NE: 8 μs~10 sec	Typ. 10 W@12 VDC	M58 C	B C
MV-CH250-60TM	HK	23 mm × 23 mm	4.5 μm	Global	5120 × 5120	31.7 fps	NE: 15 μs~10 sec	Typ. 15.1W@12 VDC	M58	D
MV-CH250-90TM	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	41.5 fps	NE: 13 μs to 10 sec	Typ. 9.7 W@12 VDC	M58 C	E F
MV-CH250-90TC	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	41.5 fps	NE: 13 μs to 10 sec	Typ. 9.7 W@12 VDC	M58 C	E F
MV-CH310-10TM	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	17.2 fps	NE: 4 μs~10 sec	Typ. 11.5 W@12 VDC	M58	G
MV-CH310-10TC	IMX342	22.3 mm × 16.7 mm	3.45 μm	Global	6464 × 4852	17.2 fps	NE: 4 μs~10 sec	Typ. 11.5 W@12 VDC	M58	G
MV-CH500-90TM	GMAX	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	15.5 fps	NE: 15 μs~10 sec	Typ. 11 W@12 VDC	M58	D
MV-CH500-90TC	GMAX	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	15.5 fps	NE: 15 μs~10 sec	Typ. 12 W@12 VDC	M58	D
MV-CH650-90TM	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	17.2 fps	NE: 18 μs~10 sec	Typ. 10.2 W@12 VDC	M58 F	D H
MV-CH650-90TC	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	17.2 fps	NE: 18 μs~10 sec	Typ. 11.6 W@12 VDC	M58 F	D H
MV-CH1030-90TM *	GMAX32103	36.1 mm × 29.4 mm	3.2 μm	Global	11276 × 9200	10fps	15 μs~10 sec	Typ. 15 W@12 VDC	M58	B
MV-CH1030-90TMC *	GMAX32103	36.1 mm × 29.4 mm	3.2 μm	Global	11276 × 9200	10fps	15 μs~10 sec	Typ. 15 W@12 VDC	M58	B
MV-CH1510-10FM	IMX411	66.7 mm	3.76 μm	Rolling	14208 × 10640	6.2 fps	NE: 30 μs~10 sec	TEC off: Typ. 11.3 W @24 VDC TEC on: Typ. 49 W @24 VDC	M72	I

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

Dimension



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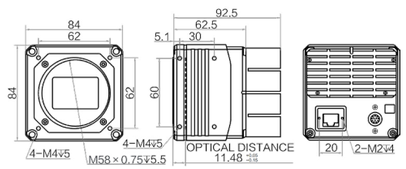

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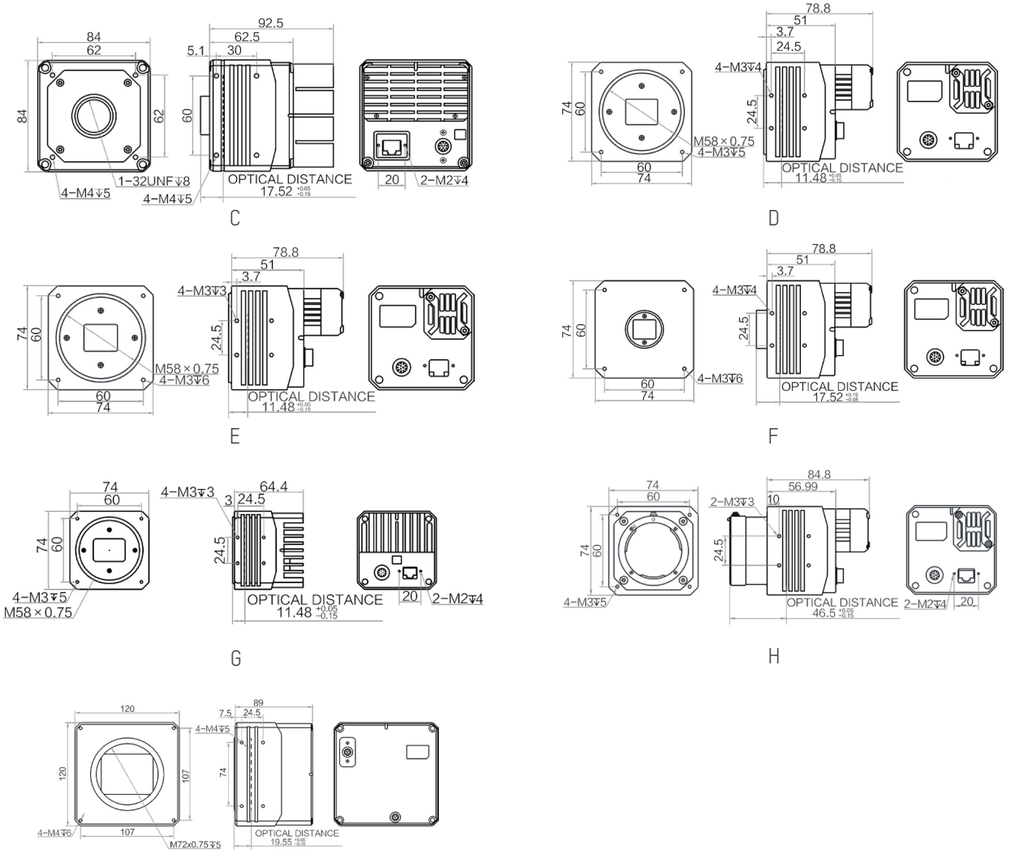


Unit:mm

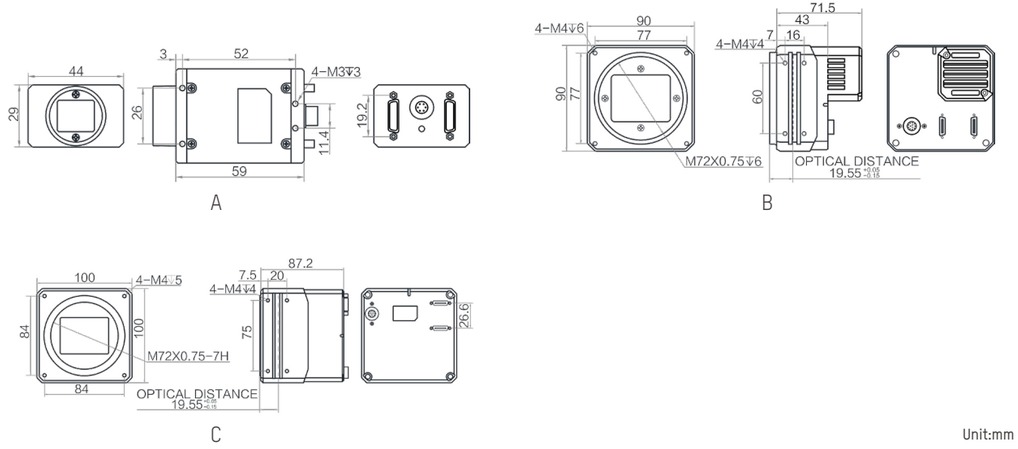
CH Series Camera Link Area Scan Camera

Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH040-A0CM	HK	1"	5.5μm	Global	2048 × 2048	180 fps	NE: 34 μs~10 sec	Typ. 3.5 W@12 VDC	C	A
MV-CH050-10CM	IMX250	2/3"	3.45 μm	Global	2432 × 2048	140 fps	NE: 15 μs~10 sec	Typ. 3.3 W@12 VDC	C	A
MV-CH050-10CC	IMX250	2/3"	3.45 μm	Global	2432 × 2048	140 fps	NE: 15 μs~10 sec	Typ. 3.41 W@12 VDC	C	A
MV-CH050-11CM	IMX264	2/3"	3.45 μm	Global	2448 × 2048	35 fps	NE: 15 μs~10 sec	Typ. 3.25 W@12 VDC	C	A
MV-CH120-10CM	IMX253	1.1"	3.45 μm	Global	3840 × 3000	69.8 fps	NE: 1 μs~10 sec	Typ. 4.51 W@12 VDC	C	A
MV-CH120-10CC	IMX253	1.1"	3.45 μm	Global	3840 × 3000	68.1 fps	NE: 1 μs~10 sec	Typ. 4.5 W@12 VDC	C	A
MV-CH120-11CM	IMX304	1.1"	3.45 μm	Global	4096 × 3000	23.4 fps	USE: 1 μs~14 sec NE: 15 μs~10 sec	Typ. 3.48 W@12 VDC	C	A
MV-CH1010-10CM	IMX461	55 mm	3.76 μm	Rolling	11648 × 8740	8.1 fps	NE: 14μs~10 sec	Typ. 14 W@24 VDC	M72	B
								TEC off: Typ. 14 W@24 VDC TEC on: Typ. 48 W@24 VDC		C
MV-CH1010-10CC	IMX461	55 mm	3.76 μm	Rolling	11648 × 8740	8.1 fps	NE: 14μs~10 sec	TEC off: Typ. 14 W@24 VDC TEC on: Typ. 48 W@24 VDC	M72	C

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

Dimension



Unit:mm

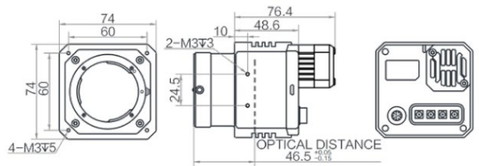
CH Series CoaXPress Area Scan Camera

Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH050-90XM	GMAX2505	1/2''	2.5 μm	Global	2592 × 2160	213 fps	5 μs~10 sec	Typ. 5.3 W@12 VDC	C	A
MV-CH120-40XM	CMV12000	22.5 mm × 16.9 mm	5.5μm	Global	4096 × 3072	188 fps	34 μs~10 sec	Typ. 10 W@12 VDC	M58	B
MV-CH210-90YM	Gsprint 4521	23.04 mm × 18.43 mm	4.5 μm	Global	5120 × 4096	222 fps	4 μs~10 sec	Typ. 18 W@24 VDC	M58	C
MV-CH210-90YC	Gsprint 4521	23.04 mm × 18.43 mm	4.5 μm	Global	5120 × 4096	222 fps	4 μs~10 sec	Typ. 16.3 W@24 VDC	M58	C
MV-CH250-90XM	GMAX0505	1.1''	2.5 μm	Global	5120 × 5120	41.5 fps	13 μs~10 sec	Typ. 7.0 W@12 VDC	C	A
MV-CH250-90YM	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	150 fps	13 μs~10 sec	Typ. 13.7 W@12 VDC	M58	D
									C	E
MV-CH250-90YM V2.0	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	150 fps	USE: 3 μs~8 sec NE: 10 μs~10 sec	Typ. 9.9 W@12 VDC	M58	B
MV-CH250-90YC	GMAX0505	1.1"	2.5 μm	Global	5120 × 5120	150 fps	13 μs~10 sec	Typ. 13.7 W@12 VDC	M58	D
									C	E
MV-CH500-90XM	GMAX	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	31.5 fps	14 μs~10 sec	Typ. 10.5 W@12 VDC	M58	F
MV-CH500-90YM	GMAX	22.4 mm × 22.4 mm	3.2 μm	Global	7008 × 7000	71 fps	14 μs~10 sec	Typ. 13 W@12 VDC	M58	B
MV-CH650-90XM	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	31.5 fps	14 μs~10 sec	Typ. 10.5 W@12 VDC	M58	F
									F	G
MV-CH650-90XC	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	31.5 fps	14 μs~10 sec	Typ. 10.5 W@12 VDC	M58	F
									F	G
MV-CH650-90YM	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	71 fps	15 μs~10 sec	Typ. 13.0 W@12 VDC	M58	C

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount	Label
MV-CH650-90YM V2.0	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	71 fps	12 μs~10 sec	Typ. 14.4W@12 VDC	M58	B
MV-CH650-90YC	GMAX3265	29.9 mm × 22.4 mm	3.2 μm	Global	9344 × 7000	71 fps	15 μs~10 sec	Typ. 13.2W@12 VDC	M58	C
MV-CH1510-10XM	IMX411	66.7 mm	3.76 μm	Rolling	14208 × 10640	6.2 fps	15 μs~10 sec	Typ. 18 W@24 VDC	M72	H
MV-CH1510-10XC	IMX411	66.7mm	3.76 μm	Rolling	14208 × 10640	6.2 fps	15 μs~10 sec	Typ. 21 W@24 VDC	M72	H
MV-CH1510-11XM	IMX411	66.7mm	3.76 μm	Rolling	14208 × 10640	6.2 fps	15 μs~10 sec	TEC off: Typ. 21 W@24 VDC TEC on: Typ. 55 W@24 VDC	M72	I
MV-CH1510-11XC	IMX411	66.7mm	3.76 μm	Rolling	14208 × 10640	6.2 fps	15 μs~10 sec	TEC off: Typ. 22 W@24 VDC TEC on: Typ. 60 W@24 VDC	M72	I
MV-CH6040-10XM	IMX411	66.7mm	3.76 μm	Rolling	28416 × 21280	6.2 fps	15 μs~1 sec	Typ. 15 W@24 VDC	M72	J
MV-CH6040-10XC *	IMX411	66.7mm	3.76 μm	Rolling	28416 × 21280	6.2 fps	15 μs~1 sec	Typ. 15 W@24 VDC	M72	J

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



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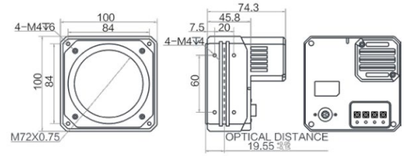

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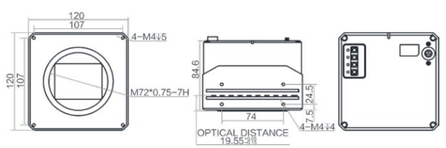

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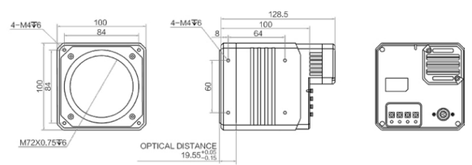
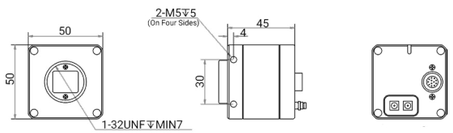


J

Unit:mm

Dimension



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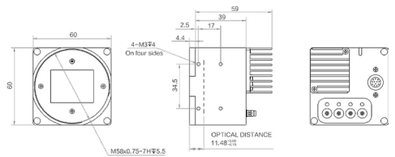
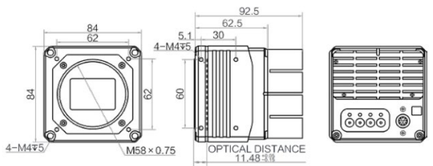


B



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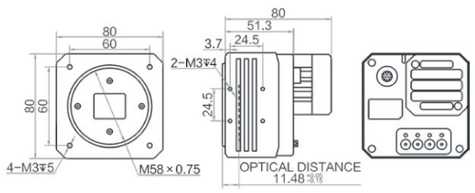

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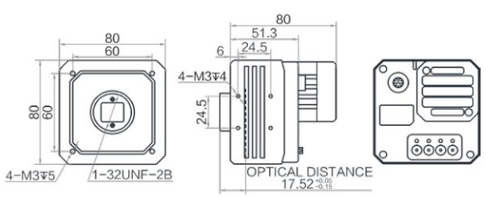

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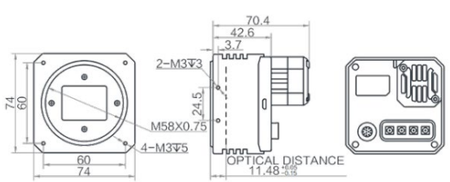


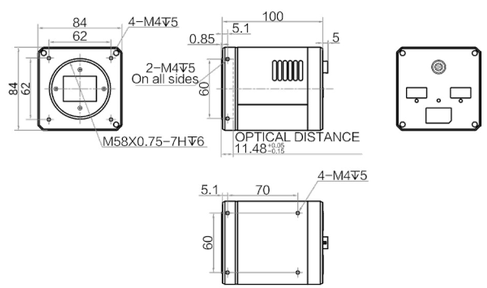
F

CH Series XoFLink Area Scan Camera

Specifications

Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Lens mount
MV-CH210-90QM *	Gsprint 4521	23.04 mm × 18.43 mm	4.5 μm	Global	5120 × 4096	540 fps	4 μs~10 sec	Typ. 25 W@24 VDC	M58

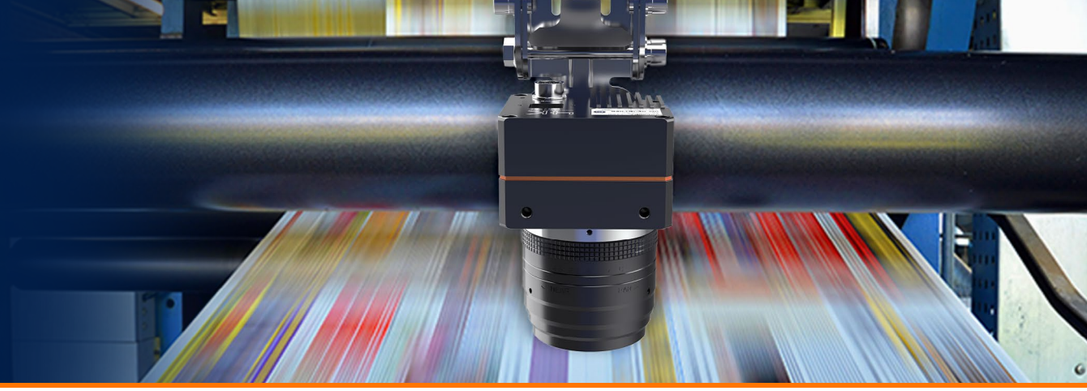
Notice: * will be released soon, please consult details with sales representative

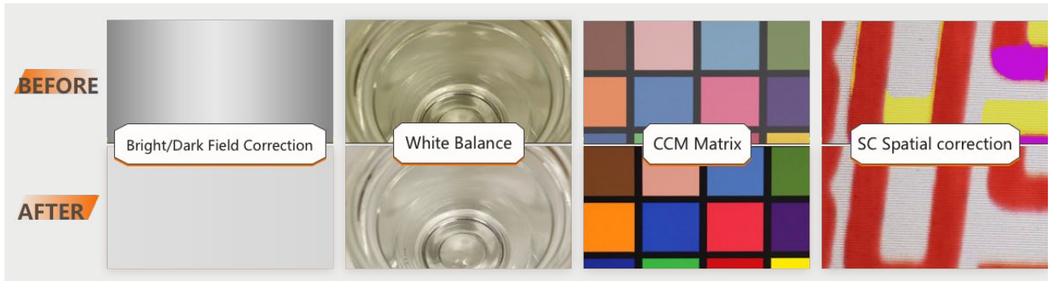


Unit:mm

Line Scan Camera

The CL series covers 2K-16K pixels and equipped with GigE/ Camera Link/XoF interfaces, support a variety of ISP and algorithms that can fulfill various application needs of line scan cameras.





Diversified processing, flexible Acquisition

High-Bandwidth Mode, high line frequency transmission

CL Series GigE Line Scan Camera

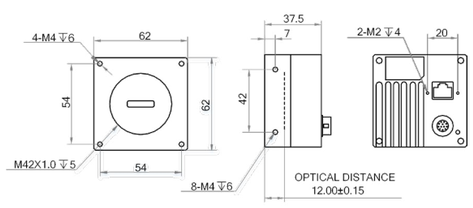
Specifications

Model	Pixel size	Resolution	Max. line rate	Mono/color	Power supply	Power consumption	Work temperature	Label
MV-CL021-40GM	7 μm × 7 μm	2048 × 1	56 kHz	Mono	12 VDC,PoE	4.0 W@12 VDC	0~50°C	A
MV-CL022-40GC	7μm × 7 μm	2048 × 2	32 kHz	Color	12 VDC,PoE	4.0 W@12 VDC	0~50°C	A
MV-CL022-91GM	14 μm × 14 μm	2048 × 1	100 kHz@HB peak	Mono	12~24 VDC,PoE	Typ. 5 W@12 VDC	-20~50°C	B
MV-CL022-91GC	14 μm × 14 μm	2048 × 2	40 kHz@HB peak	Color	12~24 VDC,PoE	Typ. 7.4 W@12 VDC	-20~50°C	B

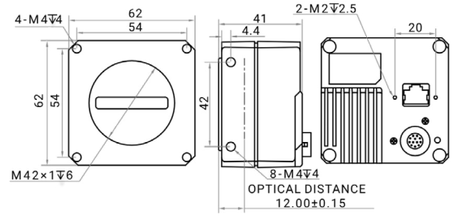
Model	Pixel size	Resolution	Max. line rate	Mono/color	Power supply	Power consumption	Work temperature	Label
MV-CL024-91GM	7μm × 7 μm	2048 × 2	86 kHz@HB peak	Mono	12~24 VDC,PoE	Typ. 5.2 W@12 VDC	-20~55°C	C
MV-CL024-91GC	7 μm × 7 μm	2048 × 3	70 kHz@HB peak	Color	12~24 VDC,PoE	Typ. 5.7 W@12 VDC	-20~55°C	C
MV-CL042-91GM	7 μm × 7 μm	4096 × 2	80 kHz@HB peak	Mono	12~24 VDC,PoE	Typ. 5.8 W@12 VDC	-20~55°C	B
MV-CL042-91GC	7 μm × 7 μm	4096 × 2	80 kHz@HB peak	Color	12~24 VDC,PoE	Typ. 6.6 W@12 VDC	-20~55°C	B
MV-CL082-92GM *	7 μm × 7 μm	8192 × 2	33.3 kHz@HB peak	Mono	12~24 VDC	Typ. 6.8 W@12 VDC	-20~55°C	D
MV-CL083-92GC *	7 μm × 7 μm	8192 × 3	33 kHz@HB peak	Color	12~24 VDC	Typ. 7.7 W@12 VDC	-20~50°C	D
MV-CL084-91GM	5 μm × 5 μm	8192 × 4	40 kHz@HB peak	Mono	12~24 VDC	Typ. 12.4 W@12 VDC	-20~50°C	E
MV-CL086-91GC	5 μm × 5 μm	8192 × 6	40 kHz@HB peak	Color	12~24 VDC	Typ. 13 W@12 VDC	-20~50°C	E

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

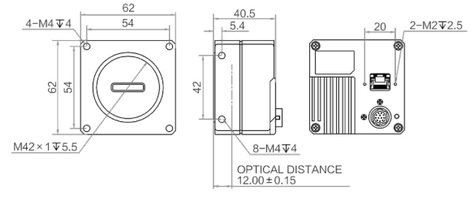
Dimension



A



B



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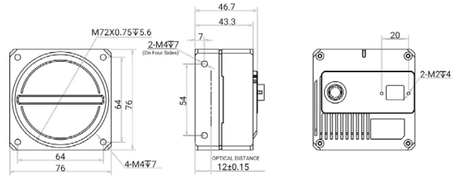

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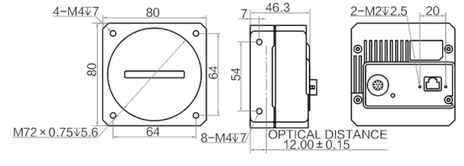


E

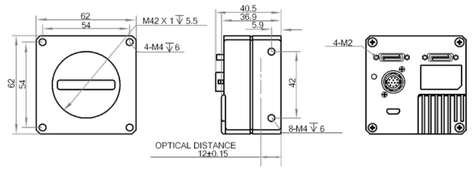
Unit:mm

CL Series Camera Link Line Scan Camera

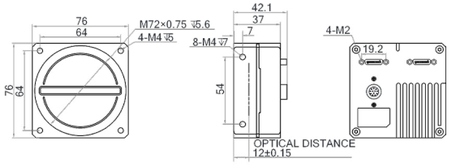
Specifications

Model	Pixel size	Resolution	Max. line rate	Mono/color	Power supply	Power consumption	Work temperature	Label
MV-CL042-91CM	7 μm × 7 μm	4096 × 2	100 kHz	Mono	12~24 VDC	Typ. 5.5 W@12 VDC	-20~55°C	A
MV-CL042-91CM-V2	7 μm × 7 μm	4096 × 2	195 kHz	Mono	12~24 VDC	Typ. 8 W@12 VDC	-20~45°C	A
MV-CL042-91CC	7 μm × 7 μm	4096 × 2	100 kHz	Color	12~24 VDC	Typ. 6.1 W@12 VDC	-20~55°C	A
MV-CL081-41CM	7 μm × 7 μm	8192 × 1	80 kHz	Mono	12~24 VDC	Typ. 5.8 W@12 VDC	0~55°C	B
MV-CL082-92CM	7 μm × 7 μm	8192 × 2	100 kHz	Mono	12~24 VDC	Typ. 9.8 W@12 VDC	-20~55°C	B
MV-CL083-92CC	7 μm × 7 μm	8192 × 3	66.6 kHz	Color	12~24 VDC	Typ. 9.9 W@12 VDC	-20~55°C	B
MV-CL084-91CM	5 μm × 5 μm	8192 × 4	100 kHz	Mono	12~24 VDC	Typ. 9.7 W@12 VDC	-20~55°C	C
MV-CL084-91CM-PRO	5 μm × 5 μm	8192 × 16	100 kHz	Mono	24 VDC	Typ. 22.9 W@24 VDC	-20~60°C	D
MV-CL086-91CC	5 μm × 5 μm	8192 × 6	33.7 kHz	Color	12~24 VDC	Typ. 9.6 W@12 VDC	-20~50°C	C
MV-CL086-91CC-PRO	5 μm × 5 μm	8192 × 12	34 kHz	Color	24 VDC	Typ. 20.5 W@24 VDC	-20~60°C	D
MV-CL161-41CM	3.5 μm × 3.5 μm	16384 × 1	50 kHz	Mono	12~24 VDC	Typ. 7.2 W@12 VDC	0~55°C	B
MV-CL162-91CM	3.5 μm × 3.5 μm	16384 × 2	50 kHz	Mono	12~24 VDC	Typ. 10 W[E]@12 VDC	-20~55°C	B

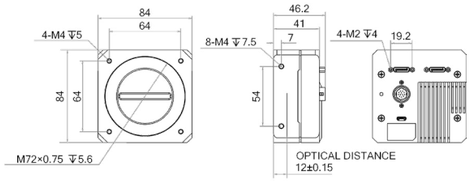
Dimension



A



B



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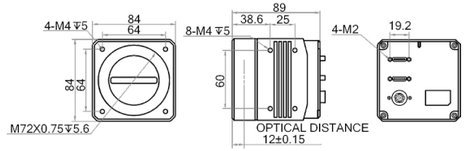


D

Unit:mm

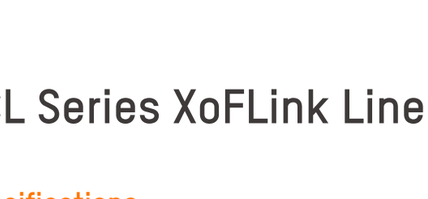
CL Series XoFLink Line Scan Camera

Specifications

Model	Pixel size	Resolution	Max. line rate	Mono/color	Power supply	Power consumption	Work temperature	Label
MV-CL04T-B1FM *	5 × 5 μm	4096 × 256	200 kHz	Mono	12~24 VDC	Typ. 8.4 W@24 VDC	-20~55°C	A
MV-CL042-91FC *	7 × 7 μm	4096 × 2	100 kHz	Color	12~24 VDC	Typ. 14 W@24 VDC	-20~55°C	B
MV-CL082-91FM	7 × 7 μm	8192 × 2	200 kHz	Mono	12~24 VDC	Typ. 14 W@24 VDC	-20~55°C	C
MV-CL083-91FC	7 × 7 μm	8192 × 3	66.6kHz	Color	12~24 VDC	Typ. 14 W@24 VDC	-20~55°C	C
MV-CL162-91FM *	3.5 × 3.5 μm	16384 × 2	120 kHz	Mono	12~24 VDC	Typ. 14 W@24 VDC	-20~55°C	C
MV-CL166-91FC *	5 × 5 μm	16384 × 6	142 kHz	Color	12~24 VDC	Typ. 14 W@24 VDC	-20~55°C	D

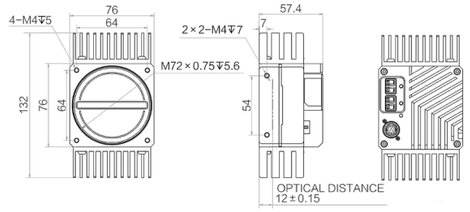
Notice: * will be released soon
Paired with MV-GS1002F frame grabber

Dimension



A

B



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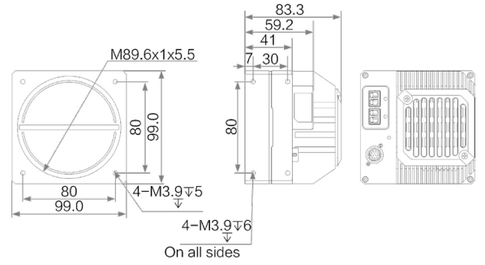
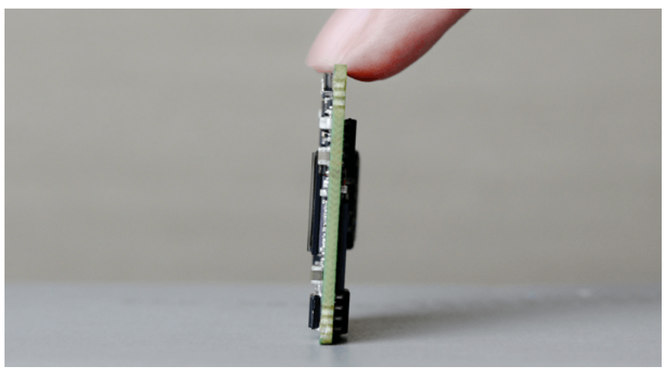


D

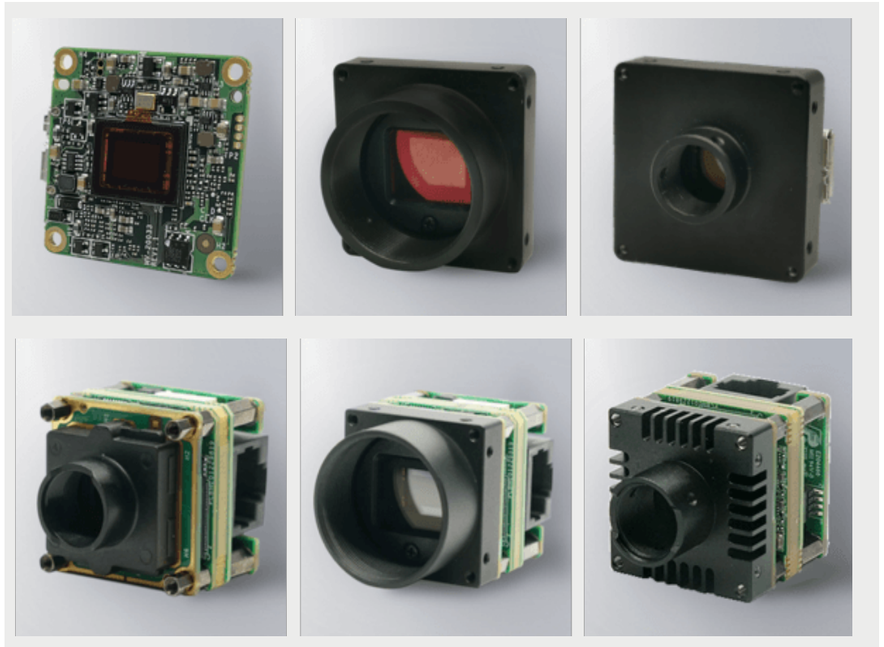
Unit:mm

Board Level Camera

The CB series board-level products is designed with a single board or multi-board stacked, which supports GigE or U3V protocol. It is applicable to the industrial, embedded, 3D, medical and other scenarios with more stringent space requirements.



Ultra-small size, flexible for application



High-Bandwidth Mode, high line frequency transmission

CB Series GigE Board Level Camera

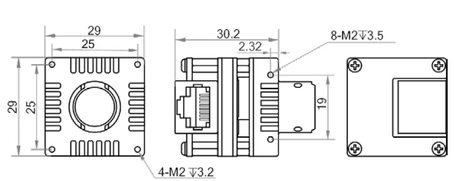
CE KC RoHS

Specifications

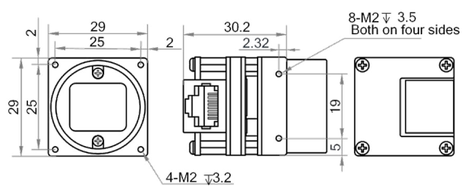
Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power consumption	Label
MV-CB004-10GM-S	IMX297	1/2.9"	6.9 μm	Global	720 × 540	125.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.5 W@12 VDC	A
MV-CB016-10GM-S	IMX296	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.6 W@12 VDC	A
MV-CB016-10GC-C	IMX296	1/2.9"	3.45 μm	Global	1440 × 1080	65.2 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.7 W@12 VDC	B
MV-CB060-10GM-S	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	NE: 25 μs~2.5 sec	Typ. 2.3 W@12 VDC	A
MV-CB060-10GC-S	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	30.7 fps	NE: 25 μs~2.5 sec	Typ. 2.6 W@12 VDC	A

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

Dimension



A



B

Unit:mm

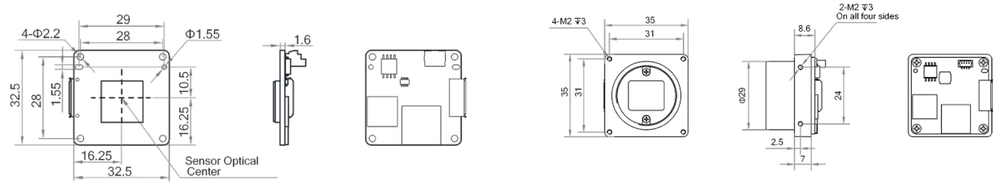
CB Series USB3.0 Board Level Camera

Specifications

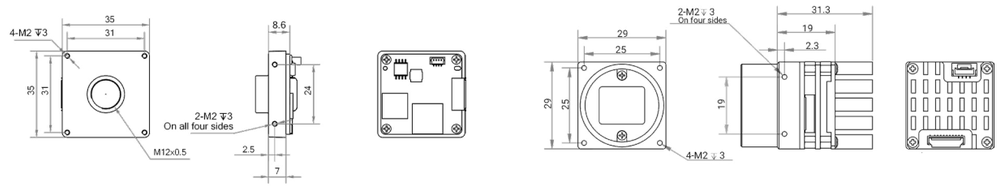
Model	Sensor model	Sensor size	Pixel size	Shutter mode	Resolution	Max. frame rate	Exposure time	Power supply	Label
MV-CB013-A0UM-B	HK	1/2"	4.8 μm	Global	1280 × 1024	201 fps	NE: 9 μs~10 sec	Typ. 1.6 W@5 VDC	A
MV-CB013-A0UM-C	HK	1/2"	4.8 μm	Global	1280 × 1024	201 fps	NE: 9 μs~10 sec	Typ. 1.6 W@5 VDC	B
MV-CB013-A0UM-S	HK	1/2"	4.8 μm	Global	1280 × 1024	201 fps	NE: 9 μs~10 sec	Typ. 1.6 W@5 VDC	C
MV-CB013-A0UC-C	HK	1/2"	4.8 μm	Global	1280 × 1024	201 fps	NE: 9 μs~10 sec	Typ. 2.8 W@5 VDC	B
MV-CB013-A0UC-S	HK	1/2"	4.8 μm	Global	1280 × 1024	201 fps	NE: 9 μs~10 sec	Typ. 2.8 W@5 VDC	C
MV-CB016-10UM-B *	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249 fps	NE: 1 μs~10 sec	Typ. 2.5 W@5 VDC	A
MV-CB016-10UM-C *	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249 fps	NE: 1 μs~10 sec	Typ. 2.5 W@5 VDC	B
MV-CB016-10UM-S *	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249 fps	NE: 1 μs~10 sec	Typ. 2.5 W@5 VDC	C
MV-CB016-10UC-B *	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249 fps	NE: 1 μs~10 sec	Typ. 2.5 W@5 VDC	A
MV-CB016-10UC-C *	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249 fps	NE: 1 μs~10 sec	Typ. 2.5 W@5 VDC	B
MV-CB016-10UC-S *	IMX273	1/2.9"	3.45 μm	Global	1440 × 1080	249 fps	NE: 1 μs~10 sec	Typ. 2.5 W@5 VDC	C
MV-CB050-11UC-C	IMX264	2/3"	3.45 μm	Rolling	2448 × 2048	60 fps	USE: 1 μs~14 μs NE: 15 μs~10 sec	Typ. 2.8 W@5 VDC	D
MV-CB060-10UM-B	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	60.9 fps	NE: 8 us~1 sec	Typ. 1.5 W@5 VDC	A
MV-CB060-10UM-C	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	60.9 fps	NE: 8 us~1 sec	Typ. 1.5 W@5 VDC	B
MV-CB060-10UM-S	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	60.9 fps	NE: 8 us~1 sec	Typ. 1.5 W@5 VDC	C
MV-CB060-10UC-B	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	60.9 fps	NE: 8 us~1 sec	Typ. 1.8 W@5 VDC	A
MV-CB060-10UC-C	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	60.9 fps	NE: 8 us~1 sec	Typ. 1.8 W@5 VDC	B
MV-CB060-10UC-S	IMX178	1/1.8"	2.4 μm	Rolling	3072 × 2048	60.9 fps	NE: 8 us~1 sec	Typ. 1.8 W@5 VDC	C
MV-CB120-10UM-B	IMX226	1/1.7"	1.85 μm	Rolling	4032 × 3036	28 fps	NE: 11 μs~2 sec	Typ. 2.45 W@5 VDC	A
MV-CB120-10UM-C	IMX226	1/1.7"	1.85 μm	Rolling	4032 × 3036	28 fps	NE: 11 μs~2 sec	Typ. 2.45 W@5 VDC	B
MV-CB120-10UM-S	IMX226	1/1.7"	1.85 μm	Rolling	4032 × 3036	28 fps	NE: 11 μs~2 sec	Typ. 2.45 W@5 VDC	C
MV-CB120-10UC-B	IMX226	1/1.7"	1.85 μm	Rolling	4032 × 3036	28 fps	NE: 23 μs~2 sec	Typ. 2.45 W@5 VDC	A
MV-CB120-10UC-C	IMX226	1/1.7"	1.85 μm	Rolling	4032 × 3036	28 fps	NE: 23 μs~2 sec	Typ. 2.45 W@5 VDC	B
MV-CB120-10UC-S	IMX226	1/1.7"	1.85 μm	Rolling	4032 × 3036	28 fps	NE: 23 μs~2 sec	Typ. 2.45 W@5 VDC	C

Notice: * will be released soon
USE: Ultra-short exposure mode
NE: Normal exposure mode

Dimension



A B

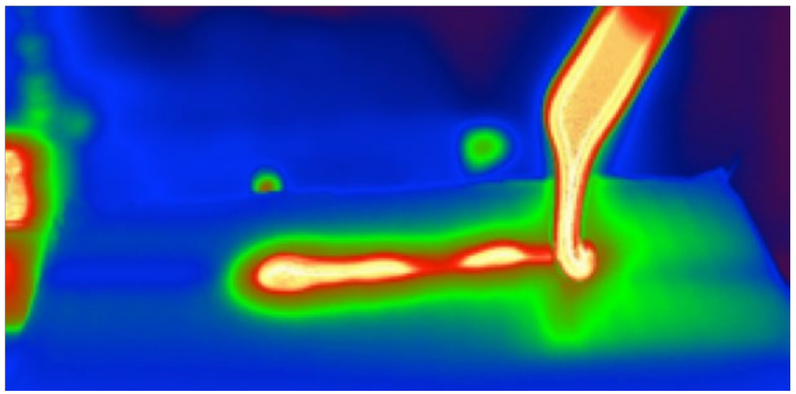


C D

Unit:mm

Industrial Infrared Camera

The CI series is a high-performance infrared camera for industrial applications. Long wave products use high-sensitivity Vanadium Oxide uncooled detector, which can present temperature information and measure the temperature characteristics of objects. Short wave product is equipped with InGaAs sensors, covering visible light to shortwave bands, and has built-in image preprocessing. Suitable for applications in industries such as new energy, semiconductors, and agriculture.



Rich functions, suitable for industrial scenarios

GiGE VISION

GENICAM

Compatible with GigE Vision standard,support GenICam protocol

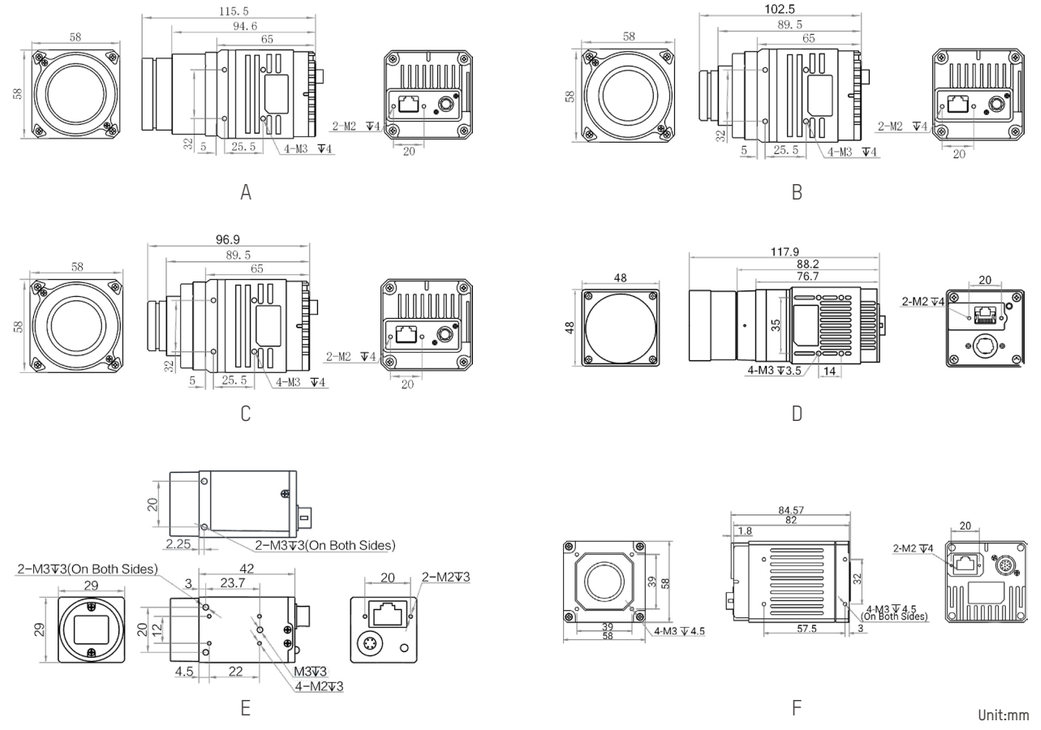
Specifications

CE KC RoHS

Model	Observation/ Thermometry	Temperature measurement range	Temperature measurement accuracy	Spectral range	Resolution	Max. frame rate	NETD	Label
MV-CI003-GL-N6	Observation	/	/	8-14 μm	640 × 512	50 fps	< 35 mk (F1.0, 25°C)	A
MV-CI003-GL-N15	Observation	/	/	8-14 μm	640 × 512	50 fps	< 35 mk (F1.0, 25°C)	B
MV-CI003-GL-N25	Observation	/	/	8-14 μm	640 × 512	50 fps	< 35 mk (F1.0, 25°C)	C
MV-CI003-GL-N35	Observation	/	/	8-14 μm	640 × 512	50 fps	< 35 mk (F1.0, 25°C)	A
MV-CI003-GL-T6	Thermometry	-20°C -150°C / 0°C -550°C	±2°C / read±2% (take great value)	8-14 μm	640 × 512	50 fps	< 50 mk (F1.0, 25°C)	D
MV-CI013-GS-NN *	/	/	/	/	1280 × 1024	91 fps	/	E
MV-CI013-GS-TF	/	/	/	/	1280 × 1024	91 fps	/	F

Notice: * will be released soon
Lens replacement not supported

Dimension



Frame Grabber

Frame grabber is one of the core accessories in the machine vision system. It can provide customers with 1-stop solutions and product selection.

Rich interfaces to meet different protocol applications

Full technical support system

Specifications

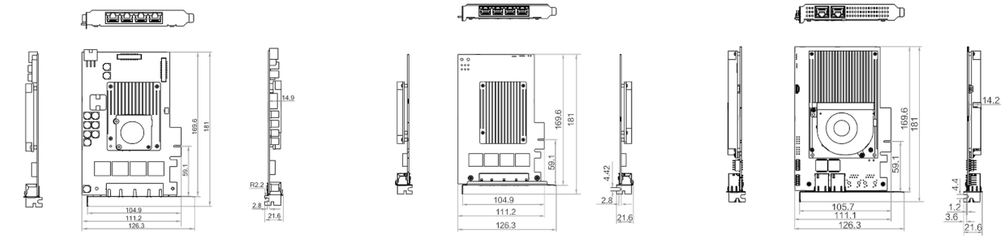
CE KC RoHS

Camera type supported	Model	Interconnect	Delivery bandwidth	Interface(Optical module equipped additionally)	Camera connection speed	Power consumption	Label
GigE industrial camera	MV-GE1004	PCI-E gen2 × 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	4 × RJ45	1 Gbps	Typ. 10 W (without PoE)	A
	MV-GE1104	PCI-E gen2 × 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	4 × RJ45	1 Gbps	Typ. 10 W (without PoE)	B
10GigE & XoF industrial camera	MV-GT1002	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	2 × RJ45	10 Gbp	Typ. 19.2 W	C
	MV-GT1004	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	4 × RJ45	10 Gbp	Typ. 24 W	D
10 GigE Fiber industrial camera	MV-GS1002F	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	2 × SFP+	20 Gbps	Typ. 20 W	E
	MV-GS1004	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	4 × SFP	10 Gbps	Typ. 20 W	F
Camera Link industrial camera	MV-GC1102IOL	PCI-E gen2 × 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	2 × SDR	6.8 Gbps	Typ. 10 W (without PoCL)	G
	MV-GC1002-V2*	PCI-E gen2 × 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	2 × SDR	6.8 Gbps	Typ. 10 W (without PoCL)	H
CXP-6 connector 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	1.25/2.5/3.125/ 5/6.25Gbps (CXP-1/2/3/5/6)	Typ. 20 W (without PoCXP)	I
	MV-GX1014	PCI-E gen2 × 8	3900 MB/s (max. transmission bandwidth), 3350 MB/s (sustained transmission bandwidth)	4 × DIN 1.0/2.3	1.25/2.5/3.125/ 5/6.25Gbps (CXP-1/2/3/5/6)	Typ. 20 W (without PoCL)	I
CXP-6/CXP-12 connector industrial camera	MV-GY1004	PCI-E gen3 × 8	7800 MB/s (max. transmission bandwidth), 6700 MB/s (sustained transmission bandwidth)	4 × HD-BNC	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)	J
GigE industrial camera	MV-GE2002	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	2 × RJ45	10/100/1000 Mbps	Typ. 4.3 W	K
	MV-GE2004	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	4 × RJ45	10/100/1000 Mbps	Typ. 5.5 W	L
	MV-GE2002P	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	2 × RJ45	10/100/1000 Mbps	Typ. 7.5 W (without PoE)	M
	MV-GE2004P	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	4 × RJ45	10/100/1000 Mbps	Typ. 9 W (without PoE)	N
	MV-GE2202	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	2 × RJ45	10/100/1000 Mbps	Typ. 2 W	O
	MV-GE2204	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	4 × RJ45	10/100/1000 Mbps	Typ. 3 W	P
	MV-GE2202P	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	2 × RJ45	10/100/1000 Mbps	Typ. 2 W (without PoE)	Q
	MV-GE2204P	PCI-E gen2 × 4, PCI-E gen2 × 2 link	860 MB/s (max. transmission bandwidth), 800 MB/s (sustained transmission bandwith)	4 × RJ45	10/100/1000 Mbps	Typ. 3 W (without PoE)	R

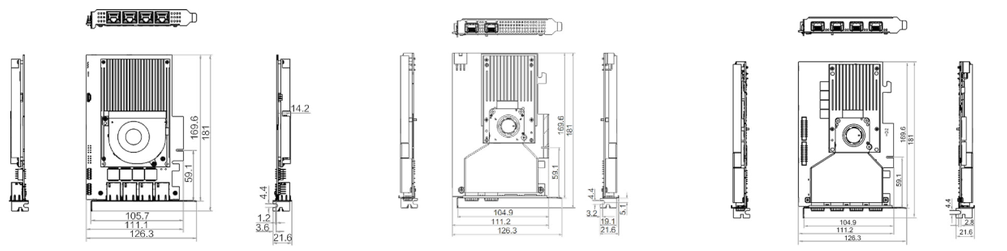
Camera type supported	Model	Interconnect	Delivery bandwidth	Interface(Optical module equipped additionally)	Camera connection speed	Power consumption	Label
USB industrial camera	MV-GU2104	PCI-E gen2 × 4	1720 MB/s (max. transmission bandwidth), 1600 MB/s (sustained transmission bandwith)	USB3.0 type-A	Max. 5 Gbps	Typ. 6 W (without USB power supply) Typ. 24 W (with USB power supply)	S
10 GigE industrial camera	MV-GT2001	PCI-E gen2 × 4	1000 MB/s (max. transmission bandwidth), 1000 MB/s (sustained transmission bandwith)	1 × RJ45	10 Gbps	Typ. 7 W	T
	MV-GT2002	PCI-E gen2 × 8	2000 MB/s (max. transmission bandwidth), 2000 MB/s (sustained transmission bandwith)	2 × RJ45	10 Gbps	Typ. 10W	U

Notice:* will be released soon.

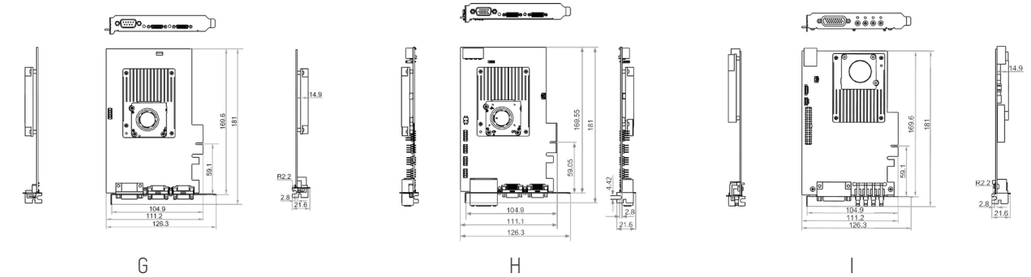
Dimension



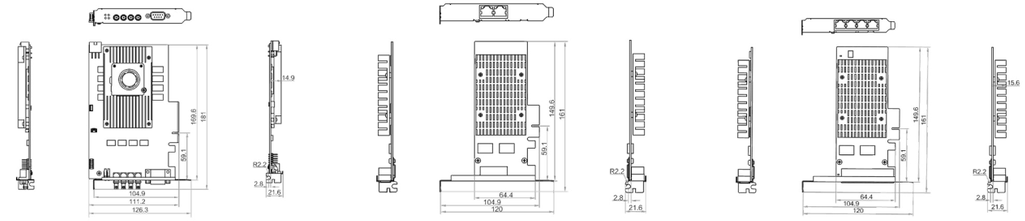
A B C



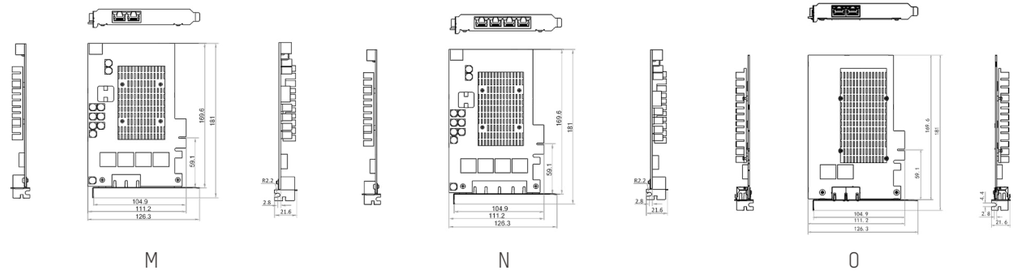
D E F



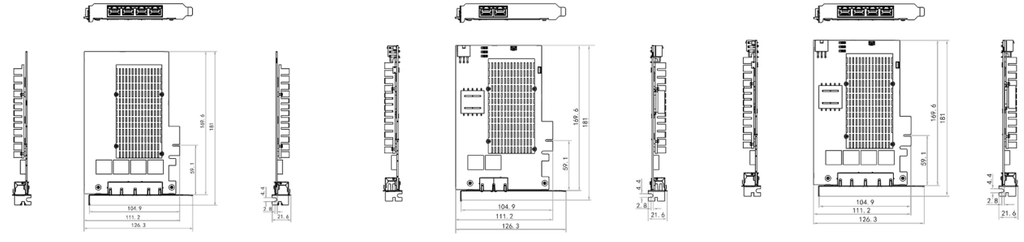
G H I



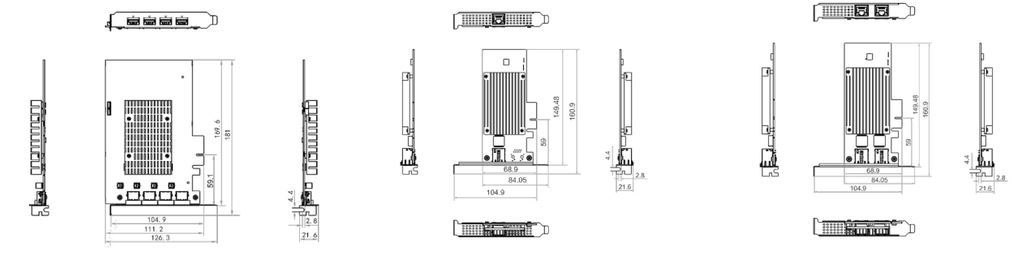
J K L



M N O



P Q R



S T U

Unit:mm