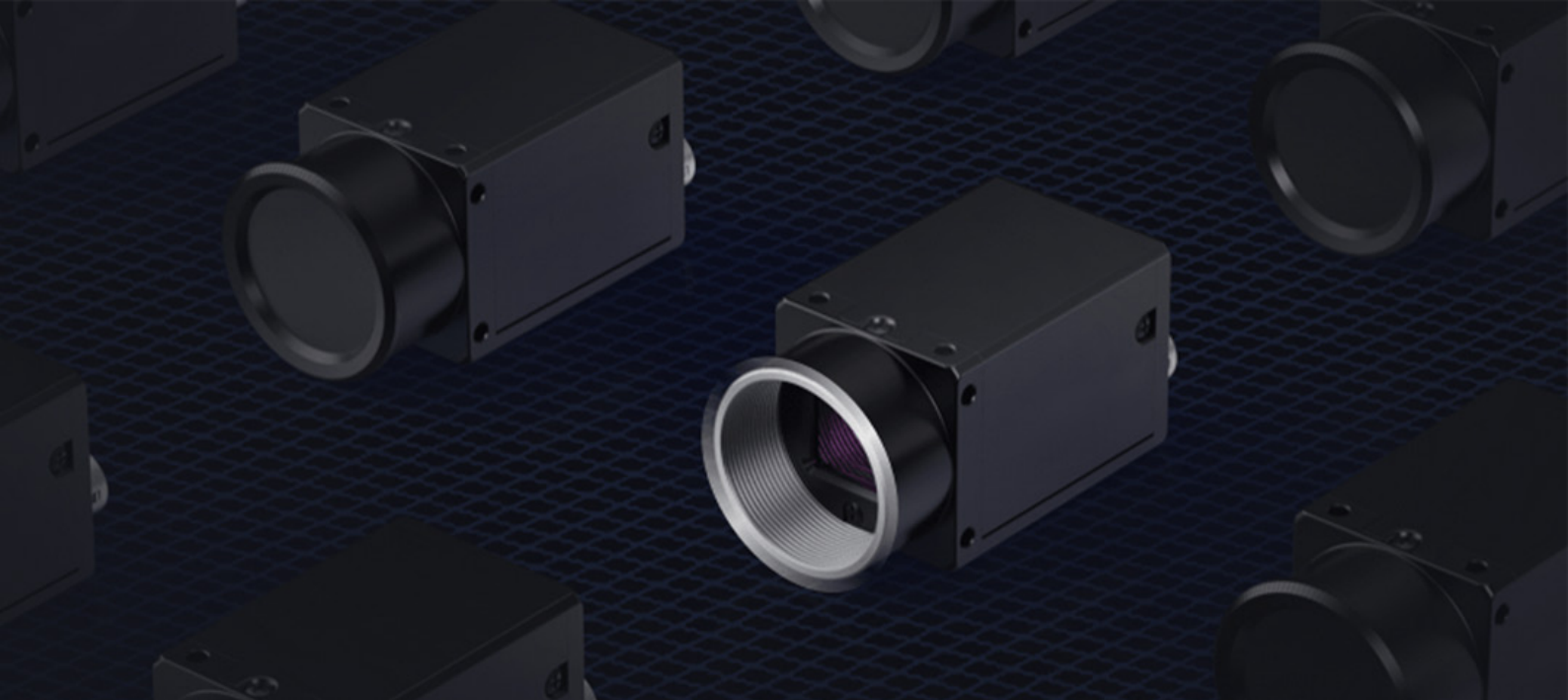


Presented by  **MSTARVISION**

HIGH QUALITY CAMERAS FULLFILL YOUR REQUIREMENTS

CS Series





WIDE RANGE OF RESOLUTIONS

MSATR selects the latest sensors from Sony, Onsemiconductor and other manufacturers

ON Semiconductor®



SONY

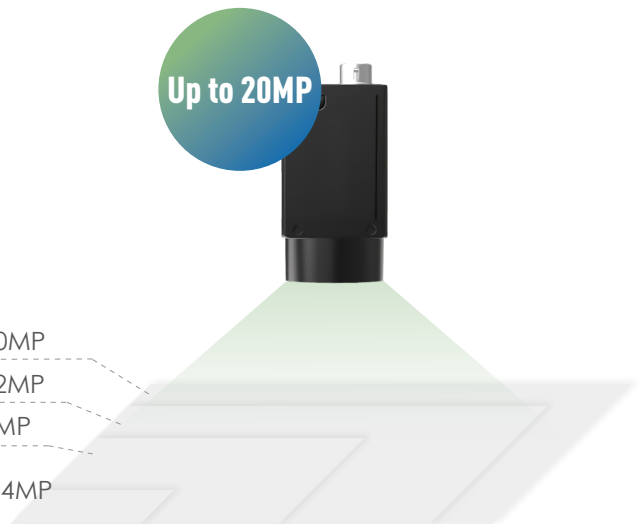
Pregius

STARVIS

... ..

Up to 20MP

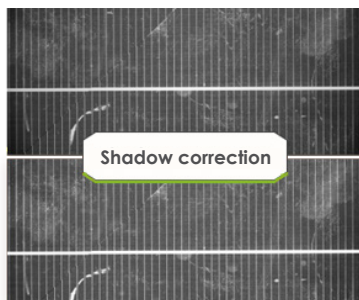
20MP
12MP
5MP
0.4MP



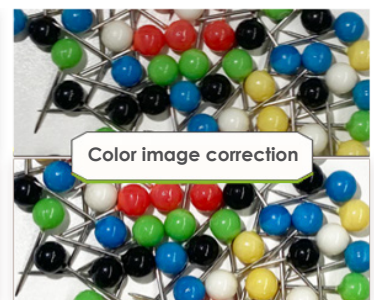
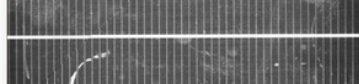
HIGH PERFORMANCE

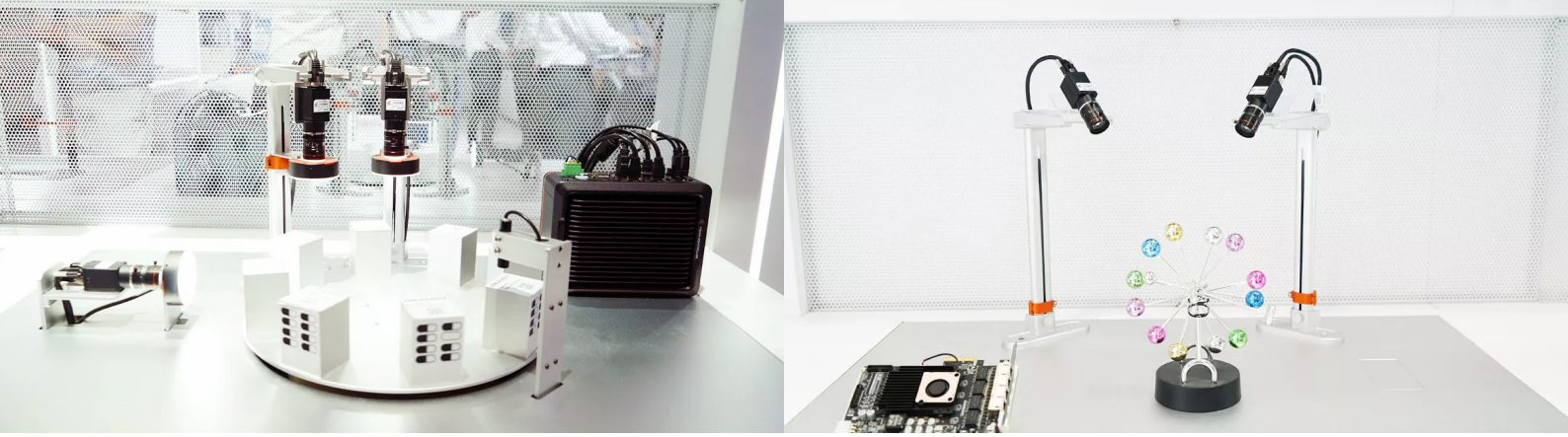
Built-in a variety of complex algorithms and functions, such as lossless compression, 2D noise reduction, lens shading correction, CCM, etc.

BEFORE



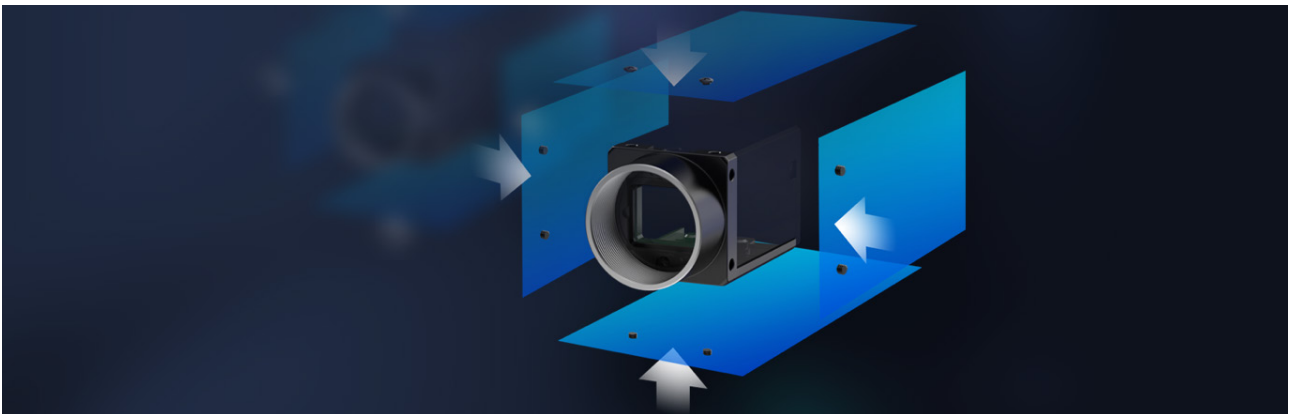
AFTER





STABLE HOUSING STRUCTURE

Four-sided installation support, better adapt to complex visual application scenarios.



FULL GENICAM® COMPLIANT

GeniCam® compliant SDK package provides more flexibility to Vision Systems®.

GEN*<i>*CAM

GiGE[®]
VISION

USB[®]
VISION



MULTIPLE SYSTEM SUPPORTED

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



Windows



Linux



MacOS



Android



SPECIFICATION | CS Series GigE Area Scan Cameras

Lower power consumption

Adopts brand new design to reduce power consumption.

Abundant ISP functions

Supports sequencer, contrast ratio, white balance, Gamma correction, etc.

Stable housing structure

Compact design with mounting holes on panels for flexible mounting from 4 sides.

Full GenICam® compliant: easy to integrate

Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.



Model Name	Sensor	Sensor Size	Pixel Size	Shutter Mode	Resolution	Max. Frame Rate	Mono/color	Interface
MV-CS004-10GM	IMX297	1/2.9"	6.9µm	Global	720×540	125.2fps	Mono	GigE
MV-CS004-10GC	IMX297	1/2.9"	6.9µm	Global	720×540	125.2fps	Color	GigE
MV-CS004-11GM	IMX287	1/2.9"	6.9µm	Global	720×540	312.9fps	Mono	GigE
MV-CS004-11GC	IMX287	1/2.9"	6.9µm	Global	720×540	312.9fps	Color	GigE
MV-CS013-60GN	BSI	2/3"	3.45µm	Global	1224×1024	59.2fps	NIR	GigE
MV-CS016-10GM	IMX296	1/2.9"	3.45µm	Global	1440×1080	65.2fps	Mono	GigE
MV-CS016-10GC	IMX296	1/2.9"	3.45µm	Global	1440×1080	65.2fps	Color	GigE
MV-CS020-10GM	IMX430	1/1.7"	4.5µm	Global	1624×1240	60fps	Mono	GigE
MV-CS020-10GC	IMX430	1/1.7"	4.5µm	Global	1624×1240	60fps	Color	GigE
MV-CS023-10GM	IMX249	1/1.2"	5.86µm	Global	1920×1200	41fps	Mono	GigE
MV-CS023-10GC	IMX249	1/1.2"	5.86µm	Global	1920×1200	41fps	Color	GigE
MV-CS032-10GM	IMX265	1/1.8"	3.45µm	Global	2048×1536	38.1fps	Mono	GigE
MV-CS032-10GC	IMX265	1/1.8"	3.45µm	Global	2048×1536	38.1fps	Color	GigE
MV-CS032-60GM	BSI	1/1.8"	3.45µm	Global	2048×1536	30fps	Mono	GigE
MV-CS032-60GC	BSI	1/1.8"	3.45µm	Global	2048×1536	30fps	Color	GigE
MV-CS050-10GM	IMX264	2/3"	3.45µm	Global	2448×2048	24.2fps	Mono	GigE
MV-CS050-10GC	IMX264	2/3"	3.45µm	Global	2448×2048	24.2fps	Color	GigE
MV-CS050-10GM-PRO	IMX264	2/3"	3.45µm	Global	2448×2048	35.6fps	Mono	GigE
MV-CS050-10GC-PRO	IMX264	2/3"	3.45µm	Global	2448×2048	35.6fps	Color	GigE
MV-CS050-20GM	XGS5000	2/3"	3.2µm	Global	2592×2048	22.7fps	Mono	GigE
MV-CS050-20GC	XGS5000	2/3"	3.2µm	Global	2592×2048	22.7fps	Color	GigE
MV-CS050-60GM	BSI	2/3"	3.45µm	Global	2448×2048	23fps	Mono	GigE
MV-CS050-60GC	BSI	2/3"	3.45µm	Global	2448×2048	23fps	Color	GigE
MV-CS060-10GM	IMX178	1/1.8"	2.4µm	Rolling	3072×2048	19.1fps	Mono	GigE
MV-CS060-10GC	IMX178	1/1.8"	2.4µm	Rolling	3072×2048	19.1fps	Color	GigE
MV-CS060-10GM-PRO	IMX178	1/1.8"	2.4µm	Rolling	3072×2048	30.7fps	Mono	GigE
MV-CS060-10GC-PRO	IMX178	1/1.8"	2.4µm	Rolling	3072×2048	30.7fps	Color	GigE
MV-CS200-10GM	IMX183	1"	2.4µm	Rolling	5472×3648	5.9fps	Mono	GigE
MV-CS200-10GC	IMX183	1"	2.4µm	Rolling	5472×3648	5.9fps	Color	GigE



Lower power consumption

Adopts brand new design to reduce power consumption.

Abundant ISP functions

Supports sequencer, contrast ratio, white balance, Gamma correction, etc.

Stable housing structure

Compact design with mounting holes on panels for flexible mounting from 4 sides.

Full GenICam® compliant: easy to integrate

Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on the protocol and standard.



Model Name	Sensor	Sensor Size	Pixel Size	Shutter Mode	Resolution	Max. Frame Rate	Mono/color	Interface
MV-CS004-10UM	IMX287	1/2.9"	6.9µm	Global	720×540	526.5fps	Mono	USB 3.0
MV-CS004-10UC	IMX287	1/2.9"	6.9µm	Global	720×540	526.5fps	Color	USB 3.0
MV-CS016-10UM	IMX273	1/2.9"	3.45µm	Global	1440×1080	249.1fps	Mono	USB 3.0
MV-CS016-10UC	IMX273	1/2.9"	3.45µm	Global	1440×1080	249.1fps	Color	USB 3.0
MV-CS020-10UM	IMX430	1/1.7"	4.5µm	Global	1624×1240	90fps	Mono	USB 3.0
MV-CS020-10UC	IMX430	1/1.7"	4.5µm	Global	1624×1240	90fps	Color	USB 3.0
MV-CS028-10UM	IMX421	2/3"	4.5µm	Global	1936×1464	132.2fps	Mono	USB 3.0
MV-CS040-A0UM	HK	1"	5.5µm	Global	2048×2048	90.1fps	Mono	USB 3.0
MV-CS040-A0UC	HK	1"	5.5µm	Global	2048×2048	90.1fps	Color	USB 3.0
MV-CS050-10UM	IMX264	2/3"	3.45µm	Global	2448×2048	60fps	Mono	USB 3.0
MV-CS050-10UC	IMX264	2/3"	3.45µm	Global	2448×2048	60fps	Color	USB 3.0
MV-CS050-60UM	BSI	2/3"	3.45µm	Global	2448×2048	60fps	Mono	USB 3.0
MV-CS050-60UC	BSI	2/3"	3.45µm	Global	2448×2048	60fps	Color	USB 3.0
MV-CS060-10UM-PRO	IMX178	1/1.8"	2.4µm	Rolling	3072×2048	59.6fps	Mono	USB 3.0
MV-CS060-10UC-PRO	IMX178	1/1.8"	2.4µm	Rolling	3072×2048	59.6fps	Color	USB 3.0
MV-CS200-10UM	IMX183	1"	2.4µm	Rolling	5472×3648	19.2fps	Mono	USB 3.0
MV-CS200-10UC	IMX183	1"	2.4µm	Rolling	5472×3648	19.2fps	Color	USB 3.0

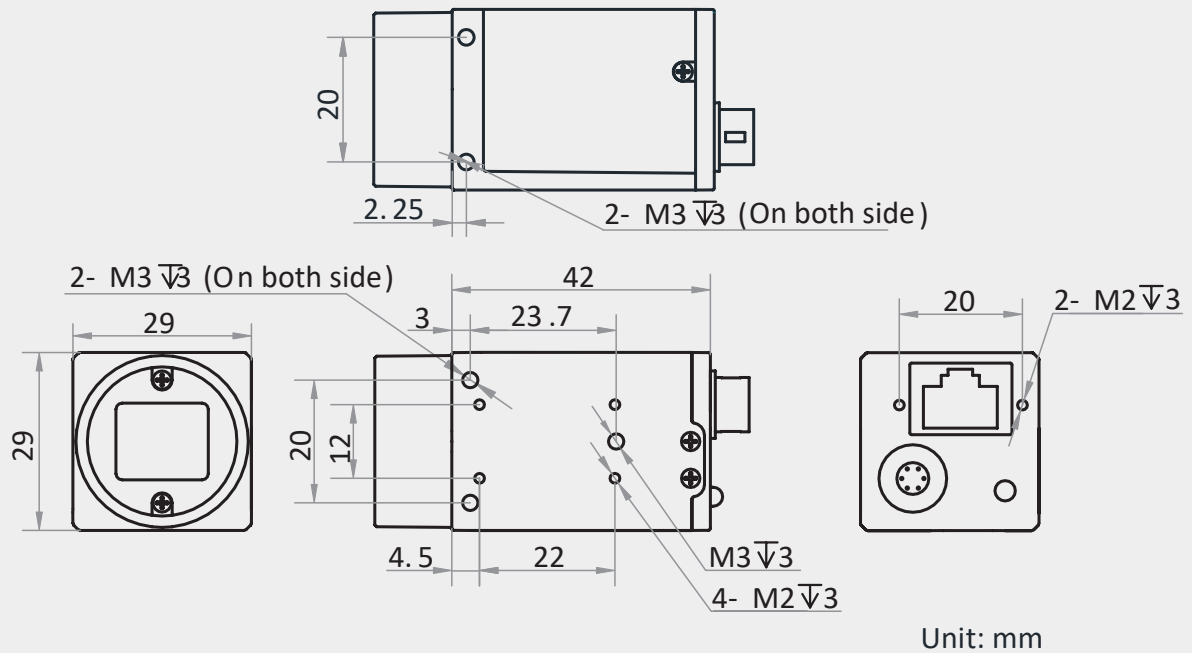


Fig.1: Drawing of CS Series GigE Cameras

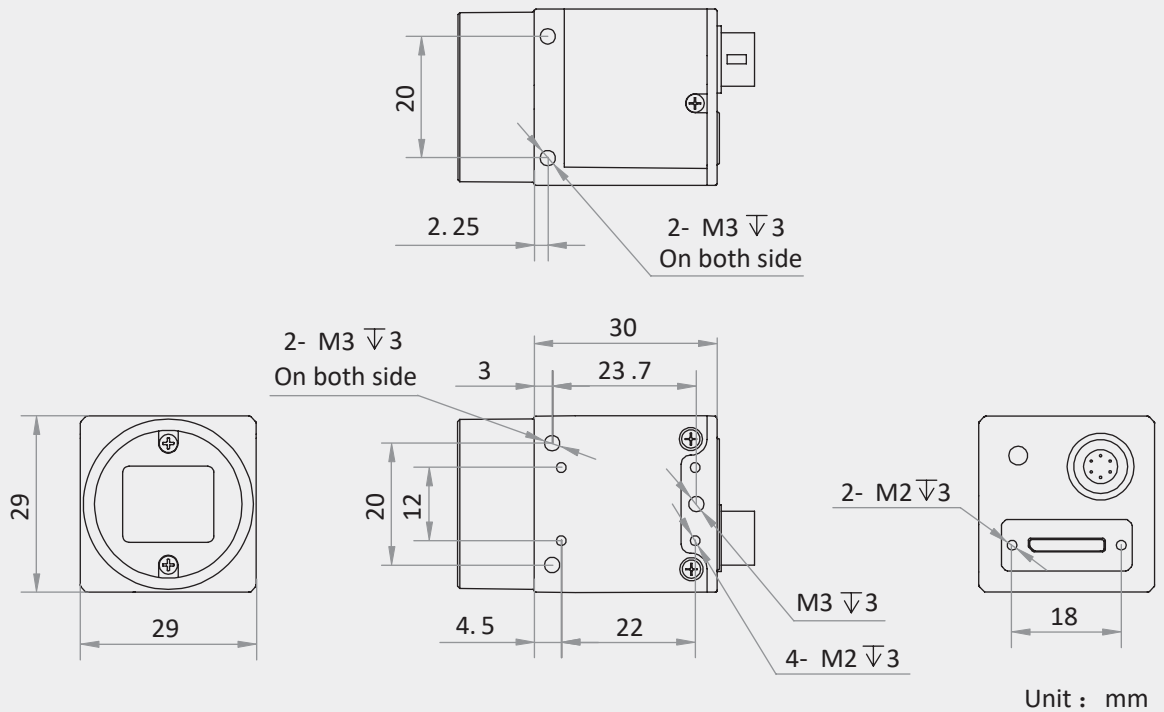


Fig.2: Drawing of CS Series USB3.0 Cameras



The industrial camera client and software development kit is based on the GenICam standard and follows the GigE Vision, USB3 Vision, Camera Link, CoaXPress and XoFLink 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, greatly reducing the development workload.
- Abundant API interfaces are convenient for users to carry out secondary development quickly and effectively.
Provide deep customization of API interfaces and UI interfaces at the same time.
- 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 frame grabber SDK interface library and sample programs to support the control and image collection of self-developed frame grabber.



MULTIPLE SYSTEM SUPPORTED

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



Windows



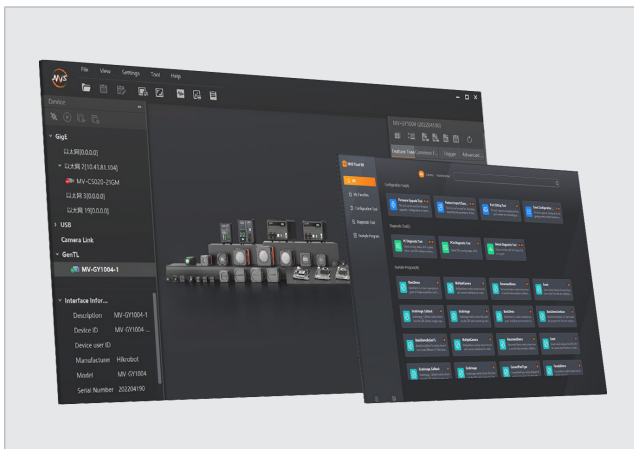
Linux



MacOS



Android



Supported Platforms

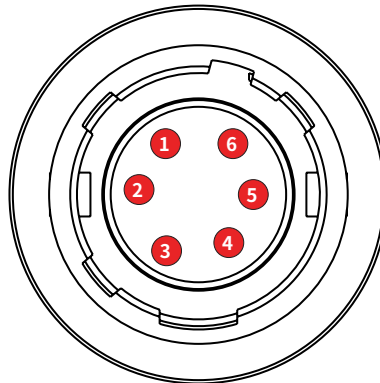
Windows 32/64bits
 X86/ARM Linux 32/64bits
 MacOS 64bits
 Android

Supported Programming Languages

C
 C++
 C#
 VB.NET
 PYTHON3
 Delphi
 JAVA



6pin power & I/O port



Pin	Signal	Description
1	Power	DC 9V-24V input
2	Line0+	Opto-isolated input
3	Line2+	Configurable IO input/output
4	Line1+	Opto-isolated output
5	Line0-/1-	Opto-isolated ground
6	Line2-	Camera power ground

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