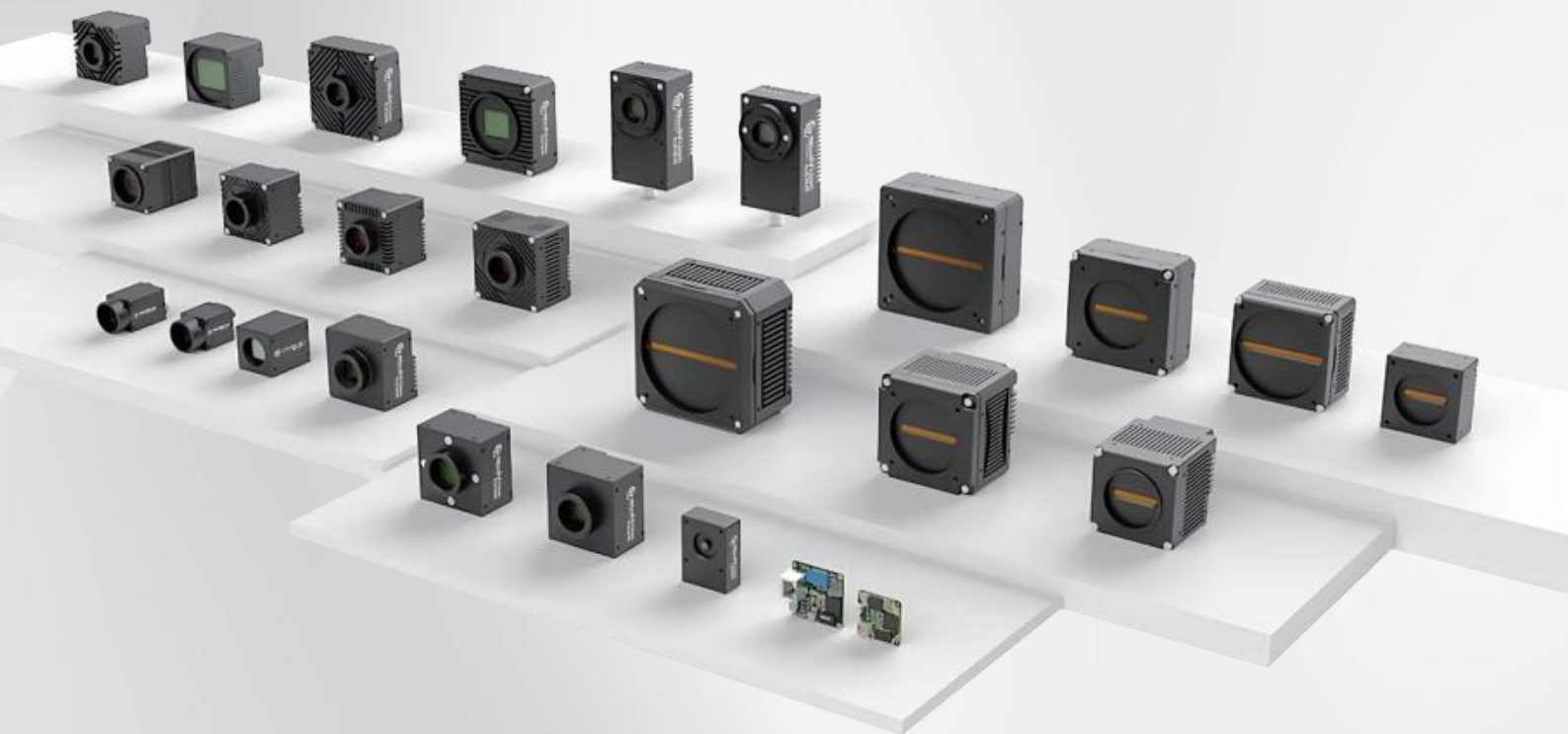


机器视觉工业相机

Machine Vision Industrial Camera

产品手册
Product Brochure



COMPANY PROFILE

公司简介

迈德威视科技有限公司，自2013年成立以来，便深耕于工业相机领域，专注于研发、生产和制造，现已成长为国产工业相机的领军企业。公司创立于深圳，并在湖南长沙和江苏无锡设有生产及研发基地，拥有近300名员工。作为专业的工业相机制造商，迈德威视提供全面的工业相机类产品开发服务，产品线覆盖面阵相机、线阵相机、热成像相机、智能相机、3D相机、双目相机模组、定制相机整机及摄像头模组等，持有产品专利和软件著作权共计100余项。其产品在科研、智能交通、生物医药、非标自动化等多个领域得到广泛应用，并与众多高校、科研机构及行业龙头企业建立了长期稳定的合作关系。

Since its inception in 2013, MindVision has been dedicated to the research, development, production, and manufacturing of industrial cameras, establishing itself as a leading enterprise in the field. With over a decade of professional expertise, the company is headquartered in Shenzhen and operates production and R&D bases in Changsha and Wuxi, complemented by offices in Wuhan and Chengdu, employing more than 300 professionals.

As a manufacturer specializing in hardware development, MindVision offers a comprehensive product portfolio, including area scan cameras, line scan cameras, thermal imaging cameras, smart cameras, 3D cameras, binocular camera modules, and customized camera solutions. The company holds over 100 product patents and software copyrights, with its products widely applied in scientific research, intelligent transportation, biomedical applications, non-standard automation, and other fields. MindVision has established long-term, stable partnerships with numerous universities, research institutions, and industry-leading enterprises.

Guided by a commitment to innovation and excellence, MindVision remains steadfast in advancing camera technology and fostering mutually beneficial collaborations with clients worldwide.

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高度集成
Highly Integrated



性能强大
High Performance



高性价比
Cost-Effective



接口丰富
Rich Interfaces



灵活定制
Flexible Customization



服务完善
Perfect Service

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NEW PRODUCT SERIES

新品系列

4.1亿像素PCIe接口相机

Megapixel PCIe Interface Camera

产品特点

Product Features

国内首款 4.1 亿像素工业相机 MV-PX41000C/M。

搭载 24K 超高分辨率，图像分辨率高达 24592×16704 。

支持 8fps 全画幅高速采集，满足高精度与高效率成像需求。

符合 CoaXPress 2.1 Gen 协议标准，支持高速稳定数据传输。

采用 TEC + 水冷双路精准制冷，有效保持相机温度稳定。减少画面噪声，进一步提升画质稳定性。

实现全画幅无压缩、无丢帧稳定输出。

China's first 410-megapixel industrial camera, MV-PX41000C/M.

Equipped with 24K ultra-high resolution, delivering an image resolution of up to 24592×16704 .

Supports 8 fps full-frame high-speed acquisition, meeting the requirements for both high-precision and high-efficiency imaging.

Compliant with the CoaXPress 2.1 Gen protocol standard, enabling high-speed and stable data transmission.

Featuring TEC + dual-loop water-cooling precision temperature control, effectively maintaining stable camera temperature.

Reduces image noise and further enhances image stability.

Enables stable, full-frame uncompressed output with no frame drops.



MV-PX41000C/M

应用场景

Application scenarios

大型平板显示器检测、遥感与测绘

Large Flat Panel Display Inspection, Remote Sensing and Surveying & Mapping

8K 256TDI 双16G 光纤传输相机

8K 256TDI Dual 16G Fiber Optic Transmission Camera

产品特点

Product Features

双16G光纤传输，带宽3倍于万兆网，稳定传输75米

性能比肩CXP，价格接近万兆网相机，性价比卓越

8K+256TDI+440K行频，满足高速高精成像需求

专用双光纤采集卡，显著降低CPU负载，抗干扰强

Dual 16G fiber transmission with 3X bandwidth of 10GigE, stable 75m transmission.

Performance rivals CoaXPress, priced near 10GigE cameras, outstanding cost-performance ratio

8K+256TDI+440kHz line rate for high-speed precision imaging.

Dedicated dual-fiber frame grabber significantly reduces CPU load with strong anti-interference.



MV-H2FL84M/U-T4-M58 & MV-CHF20

应用场景

Application scenarios

适用于屏幕检测、PCB检测、锂电检测、半导体检测、科学研究、生物医疗等应用领域。

It is suitable to application fields such as screen inspection, PCB inspection, lithium battery inspection, semiconductor inspection, scientific research, and biomedical applications.

NEW PRODUCT SERIES

新品系列

短波红外面阵相机

Short-Wave Infrared Area Scan Camera

产品特点

Product Features

支持 400–1700nm 感光波段响应，覆盖可见光至短波红外成像范围。
分辨率为 2592 × 2056，最高帧率可达 120fps，兼顾成像精度与高速采集需求。
采用 多级 FPN 矫正技术，图像均匀性更好，成像质量更稳定。
搭载 TEC 制冷方案，有效优化画面噪声，提升图像画质表现。
提供 千兆网/USB3.0/万兆网接口，具备更大的数据传输带宽。
目前支持 30 万至 500 万像素多个型号，广泛应用于光斑检测、晶圆缺陷检测、光伏新能源、高光谱成像及科研医疗等领域。

Supports a 400–1700 nm spectral response range, covering imaging from visible light to short-wave infrared.
Features a resolution of 2592 × 2056, with a maximum frame rate of 120 fps, balancing imaging precision and high-speed acquisition requirements.
Adopts multi-level FPN correction technology, providing better image uniformity and more stable imaging quality.
Equipped with a TEC cooling solution, effectively reducing image noise and enhancing overall image quality performance.
Provides GigE / USB 3.0 / 10GigE interfaces, offering greater data transmission bandwidth.
Currently available in multiple models ranging from 0.3 MP to 5 MP, and is widely used in laser spot detection, wafer defect inspection, photovoltaic new energy, hyperspectral imaging, and scientific research & medical applications.

应用场景

Application scenarios

光斑检测、晶圆缺陷检测、光伏新能源检测、高光谱成像、果蔬、材料分拣、科研医疗

Laser Spot Detection, Wafer Defect Inspection, Photovoltaic New Energy Inspection, Hyperspectral Imaging, Fruit and Vegetable Sorting, Material Sorting, Scientific Research and Medical Applications



短波红外面阵相机

双16G光纤传输面阵相机

Dual 16G Fiber Optic Transmission Area Scan Camera

产品特点

Product Features

双16G光纤传输，带宽达万兆网3倍，支持75米稳定传输
性能比肩CXP，成本接近万兆网方案，兼顾高性能与高性价比
覆盖250万至2.5亿像素，满足多场景高精成像需求
光纤链路抗干扰能力强，数据传输稳定可靠
兼容 GenICam 标准，提供SDK，缩短开发周期
支持3D降噪、ISP加速等图像优化功能

Dual 16G fiber transmission with 3× the bandwidth of 10GigE, enabling stable transmission over distances up to 75 m
CXP-level performance with 10GigE-level cost efficiency
Pixel options from 2.5 MP to 250 MP for diverse high-precision imaging applications
Superior EMI resistance for stable and reliable data transmission
GenICam compliant with full SDK support for faster system integration
Advanced image enhancement features including 3D noise reduction and ISP acceleration

应用场景

Application scenarios

医疗行业监测、光伏面板检测、平板显示检测、PCB印刷检测、金属表面检测、塑料检测、纸和纤维检测

Medical Industry Inspection, Photovoltaic Panel Inspection, Flat Panel Display Inspection, PCB Printing Inspection, Metal Surface Inspection, Plastic Inspection, and Paper & Fiber Inspection



MV-H2F2500GM

NEW PRODUCT SERIES

新品系列

分体迷你相机

Split-Type Mini Camera

产品特点

Product Features

极致小巧：相机尺寸仅14mm x 14mm，模组11.5*11.5mm。
超轻重量：整机<16g，模组<6g。
超低功耗：单相机功耗 < 1W，发热量小，全铝合金机身，散热优异。
高清画质：搭载130万像素全局快门CMOS，分辨率1280x1024，确保元件细节清晰。
智能帧率：连接≤6路时，单路120fps；满接12路时，单路70fps。
一线解决：仅需一根同轴线，同时完成数据、供电、控制单线全集成，极致简化。
一卡多机：单张自研采集卡（PCIe 3.0 x4）最多驱动12路相机。
精密同步：提供12路独立触发输入与2路闪光灯控制输出，与设备动作的微秒级精准同步。

Ultra-Compact: 14 × 14 mm camera, 11.5 × 11.5 mm module

Ultra-Light: < 16 g camera, < 6 g module

Low Power: < 1 W per camera with excellent heat dissipation

HD Imaging: 1.3 MP global shutter CMOS, 1280 × 1024 resolution

High Frame Rate: Up to 120 fps (≤6 channels), 70 fps (12 channels)

Single-Cable: Data, power, and control in one coaxial cable

Multi-Camera: Up to 12 cameras supported by one PCIe 3.0 x4 frame grabber

Precision Sync: 12 trigger inputs & 2 strobe outputs for microsecond-level synchronization

应用场景

Application scenarios

适用于LED 贴片行业，半导体焊接，空间狭小位置等应用领域。

Suitable for application fields such as LED SMT industry, semiconductor welding, and confined space inspection.



MV-MS136GM/C



MV-CMS120

PCIe 接口相机

PCIe interface camera

产品特点

Product Features

8K超清分辨率，最大行频200kHz，成像清晰，细节丰富
传输带宽可达21Gbps
高动态，强光弱光均细节清晰，复杂环境稳定输出支持
多种视频输出格式，适配多系统与编程语言
专业图像处理引擎，精准适配工业检测严苛需求
紧凑工业级设计，采用M72镜头接口

8K ultra-high resolution with 200kHz maximum line rate, delivering sharp imaging and rich details.

21Gbps transmission bandwidth.

High dynamic range ensures clear details in both strong and low light, with stable output in complex environments.

Multiple video output formats compatible with various systems and programming languages.

Professional image processing engine precisely meets demanding industrial inspection requirements.

Compact industrial-grade design, with M72 lens interface.

应用场景

Application scenarios

适用于缺陷检测、半导体检测、生物医药、工业制造、物流仓储、医疗影像、印刷品检测等应用领域。

It is suitable for application fields such as defect detection, semiconductor inspection, biomedicine, industrial manufacturing, logistics and warehousing, medical imaging, and printed matter inspection.



MV-PEL83DM-T2-M58

PRODUCT UPGRADE

产品升级

UH840C

搭载索尼芯片的UH840C，图像核心性能双提升色彩还原更真实准确，边界处理更清晰锐利。

The UH840C equipped with Sony sensor delivers dual enhancements in image core performance, offering more realistic and accurate color reproduction along with sharper and clearer edge processing.

XGL全系列

升级V1和V3颜色调整模块，V1色彩均衡输出，满足常规场景视觉需求,V3还原颜色真实色域,动态展示无偏色

Upgraded V1 and V3 color adjustment modules: V1 delivers balanced color output for conventional scenes, while V3 restores true color gamut and dynamically renders accurate, unbiased colors.



单目结构光相机

Monocular structured light camera

产品特点

Product Features

单目结构光原理（DLP投影模组）

高精度点云扫描，Z轴重复性精度可达4um

分辨率可达2448*2048

2.5G网口 帧率可达59帧

软件操作简易、可进行二次开发

Monocular structured light principle (DLP projection module)

High precision point cloud scanning with Z-axis repeatability accuracy up to 4um

The resolution up to 2448 × 2048

2.5G network port frame rate can reach 59 frames per second

Easy-to-use software with support for secondary development



MV-3DF501GM-HG

应用场景

Application Scenarios

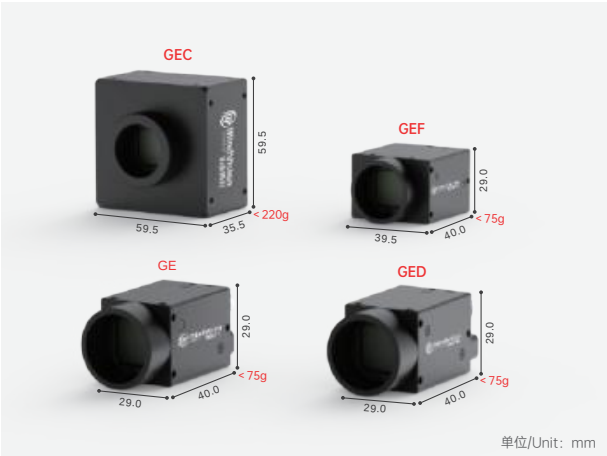
应用于消费电子，工业制造与检测，医疗健康，机器人制造等行业

Applied in industries such as consumer electronics, industrial manufacturing and inspection, healthcare, and robotics

千兆网工业面阵相机

GigE Area Scan Camera

GE 系列 | GEF 系列 | GED 系列 | GEC 系列
GE Series | GEF Series | GED Series | GEC Series



特有的数据包重传技术, 保证数据可靠传输
自带硬件图像处理加速, 降低主机端CPU占用率
像素从30万像素至2000万像素, CCD和CMOS可选
支持多相机同时工作, 数量不限制, 可任意组网
支持外触发和闪光灯同步, 多达七路GPIO, 全部光电隔离
优良的SDK设计, 像使用USB相机一样简单, 即插即用
兼容Vision标准, 免驱直接支持Halcon、VisionPro等软件
千兆网接口, 100米远距离稳定传输, 支持POE供电 (选配)

Unique packet retransmission technology to ensure reliable data transmission.
Built-in hardware image processing Acceleration, reduce the host CPU usage.
Pixels from 0.3MP to 20MP, CCD and CMOS are optional.
Support multi-camera work at the same time, unlimited number, and arbitrary networking.
Support external trigger and flash synchronization, up to seven channels of GPIO, all photoelectric isolation.
Excellent SDK design, as simple as using a USB camera, plug and play.
Compatible with the Vision standard, drive free and directly support Halcon, VisionPro and other software.
Gigabit network interface, 100m long-distance stable transmission, supporting POE power supply (optional).

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-GE31GC/M	1/3"	6.0um	0.3MP	752X480	108.25fps	0.017~57.1ms	MT9V024	Global
MV-GE33GC/M	1/2.7"	8.0um	0.3MP	640X480	160fps	0.006~49.1ms	SmartSens	Global
MV-GE34GC/M	1/4"	4.8um	0.3MP	640X480	388fps	0.005~665.4ms	MindVision	Global
MV-GE40GC/M	1/2.9"	6.9um	0.4MP	720X540	299fps	0.0053~3179.7ms	IMX287	Global
MV-GE130RC	1/3"	3.75um	1.2MP	1280X960	60.5fps	0.016~1048.6ms	AR0130	Rolling
MV-GE130GM	1/3"	3.75um	1.2MP	1280X960	60.75fps	0.016~30.7ms	AR0135	Global
MV-GE131GC	1/3"	3.75um	1.3MP	1280X960	72.25fps	0.014~53.8ms	AR0134	Global
MV-GE133GC/M	1/2.7"	4.0um	1.3MP	1280X1024	91fps	0.0061~50ms	SC130GS	Global
MV-GE134GC/M	1/2"	4.8um	1.3MP	1280X1024	91.5fps	0.008~1166.5ms	MindVision	Global
MV-GE200GC/M	1/1.8"	4.5um	2MP	1600X1200	60fps	0.015~95.7ms	EV76C570	Global
MV-GE200C	1/2.8"	2.9um	2MP	1920X1080	30fps	0.02~121.9ms	SONY	Rolling
MV-GE202GC/M	2/3"	4.8um	2MP	1920X1200	51fps	0.005~327.7ms	PYTHON2000	Global
MV-GE203GC/M	1/1.7"	4.5um	2MP	1600X1200	61.5fps	0.0126~211392.9090ms	IMX430	Global
MV-GE231GC/M	1/1.2"	5.86um	2.3MP	1920X1200	40.25fps	0.02~41943ms	IMX249	Global
MV-GE232GC/M	1/2.6"	3.0um	2.3MP	1920X1200	52fps	0.014~917.5ms	AR0234	Global
MV-GE240GC/M *	1/1.7"	4.0um	2.4MP	2048X1200	47.25fps	0.0160~10002.4155ms	GMAX4002	Global
MV-GE300GC/M	1/1.8"	3.45um	3MP	2048X1536	38fps	0.016~16777ms	IMX265	Global
MV-GE307GC/M	1/1.8"	3.4um	3MP	2048X1536	37fps	C:0.017~288568ms M:0.017~226492.4ms	MindVision	Global
MV-GE500C/M	1/2.5"	2.2um	5MP	2592X1944	15.25fps	0.033~513.2ms	C:MT9P006 M:MT9P031	Rolling
MV-GE501GC/M	2/3"	3.45um	5MP	2448X2048	24fps	0.001~1048.6ms	IMX264L	Global
MV-GE502C/M	1/2.5"	2.2um	5MP	2592X1944	24fps	0.02~155.5ms	AR0522	Rolling

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-GE502GC/M	1"	4.8um	5MP	2592X2048	23fps	0.005~327.7ms	PYTHON5000	Global
MV-GE503C	1/2.5"	2.2um	5MP	2592X1944	24fps	0.018~1179.4ms	MindVision	Rolling
MV-GE505GC/M	2/3"	3.2um	5MP	2592X2048	22fps	0.042~1376.2ms	XGS5000	Global
MV-GE506C/M*	1/2.7"	2.0um	5MP	2608X1944	24fps	0.021~1376.2ms	MindVision	Rolling
MV-GE507GC/M*	2/3"	3.4um	5MP	2448X2048	24fps	0.02~1677721ms	GMAX3405	Global
MV-GE508M	1"	4.8um	5MP	2744X1836	5fps	0.057~14942.2ms	MindVision	Rolling
MV-GE630C/M	1/1.8"	2.4um	6.3MP	3088X2064	18.75fps	0.025~14448ms	IMX178	Rolling
MV-GE800C/M	1/1.8"	2.0um	8MP	3840X2160	14.25fps	0.062~2031.6ms	MindVision	Rolling
MV-GE1201C/M	1/1.7"	1.85um	12MP	4000X3000	9.75fps	0.031~4063.2ms	IMX226	Rolling
MV-GE1202C/M	1/2"	1.6um	12MP	4000X3000	9.75fps	0.034~9792ms	AR1202	Rolling
MV-GE1600C/M	1/2.3"	1.34um	16MP	4608X3546	7fps	0.039~12939.3ms	IMX206	Rolling
MV-GE2000C/M	1"	2.4um	20MP	5488X3672	6fps	0.044~11534.3ms	IMX183	Rolling
MV-GED32C/M	1/3"	7.4um	0.3MP	640X480	164.75fps	0.0001~6500ms	SHARP	Global
MV-GED130C/M	1/3"	3.75um	1.3MP	1280X960	43.5fps	0.0001~24000ms	SHARP	Global
MV-GED200C/M	1/1.8"	4.4um	2MP	1600X1200	C:15.25fps M:27.5fps	C:0.0001~48000ms M:0.0001~24000ms	SHARP	Global
MV-GEF401GC/M	1"	5.5um	4MP	2048X2048	29fps	0.016~11534.3ms	MindVision	Global
MV-GEF890GC/M	1"	3.45um	8.9MP	4096X2160	13.5fps	0.034~71303.1ms	C:IMX344 M:IMX267	Global
MV-GEF1200GC/M	1.1"	3.45um	12MP	4090X3000	9.5fps	0.034~71303.1ms	IMX304	Global
MV-GEF1205GC/M	1"	3.2um	12MP	4096X3072	9.5fps	0.031~2031.6ms	XGS12000	Global
MV-GEC404C/M	1.1"	5.94um	4MP	2048X2048	28fps	0.017~288568.1ms	MindVision	Rolling
MV-GEC501M	4/3"	6.6um	5MP	2640X1968	21.25fps	0.011~6134.2ms	MindVision	Rolling
MV-GEC1206GC/M	1.1"	3.5um	12MP	4112X3088	9.25fps	0.0327~548614.9ms	MindVision	Global
MV-GEC1606GC/M	4/3"	3.5um	16MP	4112X4112	7.25fps	0.0327~548614.9ms	MindVision	Global
MV-GEC2100C	4/3"	3.3um	21MP	5280X3956	5.5fps	0.0542~28416.4ms	MindVision	Rolling
MV-GEC2500GC/M	1.1"	2.5um	25MP	5120X5120	4.5fps	0.042~134007.97ms	GMAX0505	Global
MV-GEC2501GM	1.3"	2.7um	25MP	5120X5120	4.5fps	0.0510~16384ms	MindVision	Global

注：1、* 为新品；2、型号后缀：C：彩色、M：黑白；3、镜头接口提供转接环；4、POE 为选配
Note：1、* Indicates a new product；2、Model suffixes: C stands for color, M stands for mono；3、Lens adapters are available for the lens interface；4、POE is optional.

C/CS 接口相机图
C/CS-Mount Camera Drawing



C 口镜头
C-mount lens



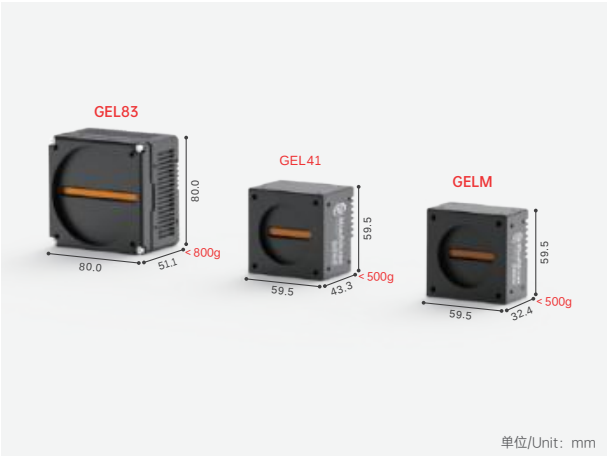
CS 口镜头
CS-mount lens

单位/Unit: mm

千兆网工业线阵相机

GigE Line Scan Camera

GEL 系列 | GELM 系列
GEL Series | GELM Series



行频最高可达27.5K，软件自由设定，彩色线阵相机支持RGB三行真彩输出
支持Sensor硬件2行SUM，成倍提高亮度，降低对光源的要求
千兆网口，最大传输距离100米
支持编码器信号的分频与倍频，与运动平台精确匹配
硬件ISP支持Gamma、对比度、镜头阴影矫正等
支持编码器同步触发、光电传感器与编码器组合同步触发等多种触发模式

The line rate can reach up to 27.5K, the software can be set freely, and the color line scan camera supports RGB three-line true color output.
Support Sensor hardware 2-line SUM, multiply the brightness, and reduce the requirements for the light source.
Gigabit Ethernet port, maximum transmission distance of 100 meters.
It supports the frequency division and frequency doubling of the encoder signal, and accurately matches the motion platform.
Hardware ISPs support Gamma, contrast, lens shadow correction, and more.
It supports a variety of trigger modes such as encoder synchronous triggering, photoelectric sensor and encoder combination synchronous triggering.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	TDI TDI	行频 Line frequency	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-GEL41M	28.6mm	7um	4096x2	/	28k	0.003~5ms	MindVision	Global
MV-GELM21M	28.6mm	14x7um	2048x1	/	47.1k	0.003~5ms	MindVision	Global
MV-GELM24C	28.6mm	14x7um	2048x3	/	47.1k	0.003~5ms	MindVision	Global
MV-GELM41M	28.6mm	7um	4096x2	/	27.5k	0.003~5ms	MindVision	Global
MV-GELM44C	28.6mm	7um	4096x6	/	RG 8bit:27.5k、RGB 8bit:9.2k	0.003~5ms	MindVision	Global
MV-GELM44M	28.6mm	7um	4096x8	2~4	27.5k	0.003~5ms	MindVision	Global
MV-GEL83BM	57.344mm	7um	8192X4	4	8bit:14.993K、12bit:10K	0.003~50ms	MindVision	Global

2.5GigE 工业相机

2.5GigE industrial camera

2.5GIGE 系列
2.5GIGE Series

特有的数据包重传技术, 保证数据可靠传输
自带硬件图像处理加速, 降低主机端CPU占用率
2.5倍带宽提升, 兼容千兆布线, 兼顾性能与成本
支持多相机同时工作, 数量不限制, 可任意组网
支持外触发和闪光灯同步, 多达七路GPIO, 全部光电隔离
优良的SDK设计, 像使用USB相机一样简单, 即插即用
兼容Vision标准, 免驱直接支持Halcon、VisionPro等软件
2.5GigE接口, 100米远距离稳定传输, 支持POE供电 (选配)

Unique packet retransmission technology to ensure reliable data transmission.
Built-in hardware image processing Acceleration, reduce the host CPU usage.
Support multi-camera work at the same time, unlimited number, and arbitrary networking.
Support external trigger and flash synchronization, up to seven channels of GPIO, all photoelectric isolation.
Excellent SDK design, as simple as using a USB camera, plug and play.
Compatible with the Vision standard, drive free and directly support Halcon, VisionPro and other software.
2.5Gigabit network interface, 100m long-distance stable transmission, supporting POE power supply (optional)

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	帧率 Frame rate	分辨率 Resolution	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-HGC2502GC/M*	1.2"	2.7um	25M	12fps	5120*5120	0.00193-126ms	MindVision	Global
MV-HGC3902GC/M*	1.5"	2.7um	39M	8fps	7680*5120	0.00193-126ms	MindVision	Global

万兆网工业面阵相机

10 GigE Area Scan Camera

XGC 系列 C 口 | XGC 系列 M58 口
XGC Series C mount | XGC Series M58 mount



预留风扇接口，有效控制相机温度
50万-6500万像素可选，最高帧率可达1609.25FPS
相比CameraLink 接口搭配采集卡的方式成本大幅度降低
最远传输距离可达100米，工业现场布线不再受约束，向下兼容千兆网
采用标准万兆网接口设计，超六类网线即可实现稳定通讯
有效带宽1200MByte，是千兆网的10倍，大大缩短了图像传输时间及延时
支持GigEVision. GenICam标准以及和千兆网相机相同的SDK，缩短客户开发周期

Reserve a fan port to effectively control the camera tempera ture.
0.5MP to 65MP with a maximum frequency of 1609.25FPS.
Compared with the CameraLink interface with a capture card, the cost is greatly reduced.
The farthest transmission distance can reach 100 meters, and the industrial field wiring is no longer restricted and Backwards compatible with Gigabit Ethernet.
Using the standard 10 Gigabit network interface design, the Cat6A can achieve stable commu-
nication.
The effective bandwidth is 1200MByte, which is 10 times that of the gigabit network, which greatly reduces the image transmission time and delay.
Support GigEVision. GenICam standard and the same SDK as Gigabit network cameras, shorten the development cycle.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-XGC51GC/M	1/1.7"	9.0um	0.5MP	816X624	1609.25fps	0.0008~838.8600ms	IMX426	Global
MV-XGC170GC/M	1.1"	9.0um	1.7MP	1600X1100	665.75fps	0.0011~1153.4325ms	IMX425	Global
MV-XGC280GC/M	2/3"	4.5um	2.8MP	1936X1464	410fps	0.0015~1572.8625ms	IMX421	Global
MV-XGC402GC/M	1"	5.5um	4MP	2048X2048	175.25fps	0.0026~1874.3270ms	MindVision	Global
MV-XGC503GC/M	1/2"	2.5um	5MP	2592X2160	120.75fps	0.0038~498.0698ms	GMAX2505	Global
MV-XGC507GC/M	2/3"	3.4um	5MP	2448X2048	163.75fps	0.0029~48653.9235ms	GMAX3405	Global
MV-XGC903GC/M	2/3"	2.5um	9MP	4208X2160	120.75fps	0.0038~498.0698ms	GMAX2509	Global
MV-XGC1205GC/M	1"	3.2um	12MP	4096X3072	90.5fps	0.0035~229.4ms	XGS12000	Global
MV-XGC1207GC/M	1.1"	3.4um	12MP	4096X3072	90fps	0.0035~58720.2525ms	GMAX3412	Global
MV-XGC1606GC/M	4/3"	3.5um	16MP	4096X4096	45.25fps	0.0053~88919.2395ms	MindVision	Global
MV-XGC1803GC/M	1"	2.5um	18MP	4512X4096	63.5fps	0.0038~498.0698ms	GMAX2518	Global
MV-XGC2500GC/M	1.1"	2.5um	25MP	5120*5120	41.75fps	0.0046~14470.3ms	GMAX0505	Global
MV-XGC2501GC/M	1.3"	2.7um	25MP	5120X5120	42fps	0.0053~88919.2384ms	MindVision	Global
MV-XGC4701C/M	1.4"	2.315um	47MP	8240X5628	24.25fps	0.0072~5142.8520ms	IMX492	Rolling
MV-XGC6400GM	4/3"	1.8um	64MP	8192X8192	18fps	0.0125~209715.1872ms	MindVision	Global
MV-XGC6500GC/M	29.9x 22.4mm	3.2um	65MP	9344X7000	15.75fps	0.009~18874.359ms	GMAX3265	Global

注：1、* 为新品；2、型号后缀：C：彩色、M：黑白
Note：1、* Indicates a new product；2、Model suffixes: C stands for color, M stands for mono.

万兆网工业线阵相机-普通系列

10 GigE Line Scan Camera-General Series

XGL 系列 | XGLC 系列

XGL Series | XGLC Series



产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	TDI TDI	行频 Line frequency	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-XGL83C	57.344mm	7um	8192x3	/	8bit:50K	0.003-50ms	MindVision	Global
MV-XGL83M	57.344mm	7um	8192x2	2	8bit:109K 12bit:87.72K	0.003-50ms	MindVision	Global
MV-XGLC83C	57.344mm	7um	8192x3	/	8bit:48K	0.003-50ms	MindVision	Global
MV-XGLC83BM	57.344mm	7um	8192x4	4	8bit:109.89K、12bit:87.7K	0.003-50ms	MindVision	Global
MV-XGLC83DM	57.344mm	7um	8192x4	4	8bit:150K、12bit:87.7K	0.004~50ms	MindVision	Global
MV-XGL163C	57.344mm	3.5um	16384x2	/	72K	0.004~50ms	MindVision	Global
MV-XGL163M	57.344mm	3.5um	16384x2	2	8bit:72K、12bit:48K	0.004~50ms	MindVision	Global
MV-XGL164C	81.92mm	5um	16384x6	2	25K	0.004~5ms	MindVision	Global
MV-XGL164M	81.92mm	5um	16384x1	/	75K	0.004~5ms	MindVision	Global

注：1、型号后缀：C：彩色、M：黑白

Note：1、Model suffixes: C stands for color, M stands for mono.

支持平场校正功能,带多曝光自动切换功能

支持Gain、Offset可编程设置

预留风扇接口,有效控制相机温度

最远传输距离可达100米,工业现场布线不再受约束,向下兼容千兆网

采用标准万兆网接口设计,超六类网线即可实现稳定通讯

相比CameraLink 接口搭配采集卡的方式成本大幅度降低

有效带宽1200MByte,是千兆网的10倍,大大缩短了图像传输时间及延时

支持GigEVision. GenICam标准以及和千兆网相机相同的SDK,缩短客户开发周期

Flat field calibration function is supported, with multi-exposure automatic switching function.

Support Gain and Offset programmable settings.

Reserved fan port to effectively control the camera temperature.

The farthest transmission distance can reach 100 meters, and the industrial field wiring is no longer restricted and Backwards compatible with Gigabit Ethernet.

Using the standard 10GigE interface/10Gigabit Ethernet interface design, the Cat6A can achieve stable communication.

Compared with the CameraLink interface with a capture card, the cost is greatly reduced.

The effective bandwidth is 1200MByte, which is 10 times that of GigE, which greatly shortens the transmission time and latency of images.

Support for GigEVision. GenICam standard and the same SDK as Gigabit Ethernet cameras, shorten the development cycle.



万兆网工业线阵相机-256级TDI系列

10 GigE Line Scan Camera-256 TDI Series

XGL 系列 256 TDI
XGL Series 256 TDI



5um像元，万兆网口接口
256级TDI，减少光源需求
Sensor行频高达250k/200k（Sensor输出像素宽度10/12bits）
支持256行的面阵对焦模式
支持Gain、Offset可编程设置，支持平场校正功能
支持编码器同步触发、光电传感器与编码器组合多种触发模式

5um pixel, 10 GigE interface.
256-grade TDI, reducing the demand of light source.
Sensor line frequency up to 250k/200k(sensor output pixel width 10bits/12bits).
Support 256-line area array focusing mode.
Gain and Offset programmable settings are supported, and flat-field correction is supported.
Support encoder synchronous trigger, photoelectric sensor and encoder combination multiple trigger modes.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	TDI TDI	行频 Line frequency	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-XGL42M	21.177mm	5um	4096x256	256	8bit:250K、12bit:200K	0.004~50ms	MindVision	Global
MV-XGL82M	41.673mm	5um	8192x256	256	8bit:145K、12bit:96K	0.004~50ms	MindVision	Global
MV-XGL162M	82.666mm	5um	16384x256	256	8bit:72K、12bit:48K	0.004~50ms	MindVision	Global

注：1、型号后缀：C：彩色、M：黑白
Note：1、Model suffixes: C stands for color, M stands for mono.



USB3.0工业相机

USB3.0 Area Scan Camera

SUA 系列 | SUF 系列 | SUC 系列 | SUS 系列

SUA Series | SUF Series | SUC Series | SUS Series



相机自带可编程IO，支持外触发闪光灯同步拍照

支持8bit 到12bit raw 数据输出

30万至2000万像素CMOS，多款全局快门相机可选

与GigE相机的SDK完全兼容，可无缝替换

一台电脑接多个相机可稳定工作，长时间下不掉线、不丢帧

支持PC Linux系统和ARM Linux系统，可集成于嵌入式设备中

兼容Vision协议，无缝兼容Halcon、VisionPro、Labview等视觉软件

The camera has its own programmable IO, which supports external trigger flash synchronous photography.

Supports 8bit to 12bit raw data output.

0.3MP to 20MP CMOS, multiple global shutter cameras are optional.

Fully compatible with GigE camera SDK, seamless replacement.

One computer can be connected to multiple cameras, and it can work stably for a long time without dropping frames.

It supports PC Linux system and ARM Linux system, and can be integrated into embedded devices.

Support Vision protocol, seamless compatible with Halcon, Vision Pro, Labview and other vision software.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-SUA33GC/M	1/5.6"	4um	0.3MP	640x480	791fps	0.0025~20.4ms	SmartSens	Global
MV-SUA34GC/M	1/4"	4.8um	0.3MP	640x480	432fps	0.0045~584.4ms	MindVision	Global
MV-SUA40GC/M	1/2.9"	6.9um	0.4MP	720x540	523.75fps	0.0032~1955.4ms	IMX287	Global
MV-SUA130GM	1/3"	3.75um	1.2MP	1280x1024	61fps	0.0167~32ms	AR0135	Global
MV-SUA131GC	1/3"	3.75um	1.2MP	1280x960	72.25fps	0.0164~31.4ms	AR0134	Global
MV-SUA133GC/M	1/2.7"	4um	1.3MP	1280x1024	241.5fps	0.004~32.4ms	SC130GS	Global
MV-SUA134GC/M	1/2"	4.8um	1.3MP	1280x1024	212fps	0.0045~584.4ms	PYTHON	Global
MV-SUA200GC/M	1/1.8"	4.5um	2MP	1600x1200	60fps	0.0157~95.8ms	EV76C570	Global
MV-SUA202GC/M	2/3"	4.8um	2MP	1920x1200	165.5fps	0.0039~256.1ms	PYTHON2000	Global
MV-SUA230GC/M	1/1.2"	5.86um	2.3MP	1920x1200	165.25fps	0.0049~10188.6ms	IMX174	Global
MV-SUA231GC/M	1/1.2"	5.86um	2.3MP	1920x1200	40fps	0.0201~42112.8ms	IMX249	Global
MV-SUA300GC/M	1/1.8"	3.45um	3MP	2048x1536	55.75fps	0.0114~11966.6ms	IMX265	Global
MV-SUA403GM	1/1.3"	4.2um	4MP	1744x2336	51.5fps	0.012~790ms	SC410GS	Global
MV-SUA500C/M	1/2.5"	2.2um	5MP	2592x1944	15.25fps	0.0336~522.2ms	C:MT9P006 M:MT9P031	Rolling
MV-SUA501GC/M	2/3"	3.45um	5MP	2448x2048	40.5fps	0.0118~12377.1ms	IMX264	Global
MV-SUA502C/M	1/2.5"	2.2um	5MP	2592x1944	59fps	0.0084~553.4ms	AR0521	Rolling
MV-SUA505GC/M	2/3"	3.2um	5MP	2592x2048	42.75fps	0.0113~740.3ms	XGS5000	Global
MV-SUA630C/M	1/1.8"	2.4um	6.3MP	3088x2064	59.5fps	0.008~10284.8ms	IMX178	Rolling
MV-SUA800C/M	1/1.8"	2um	8MP	3840x2160	45.75fps	0.02~655.4ms	MindVision	Rolling
MV-SUA1201C/M	1/1.7"	1.85um	12MP	4000x3000	32fps	0.0102~2665.1ms	IMX226	Rolling
MV-SUA1600C/M	1/2.3"	1.34um	16MP	4608x3456	12fps	0.0233~7741.4ms	IMX206	Rolling
MV-SUA2000C/M	1"	2.4um	20MP	5488x3672	19.5fps	0.0138~3608.7ms	IMX183	Rolling

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-SUF401GC/M	1"	5.5um	4MP	2048x2048	88fps	0.0054~704.5ms	MindVision	Global
MV-SUF890GC/M	1"	3.45um	8.9MP	4096x2160	32fps	0.0141~14769.9ms	C:IMX344 M:IMX267	Global
MV-SUF1200C/M	1"	3.1um	12MP	4080x3072	30.75fps	0.0201~2635.2ms	RJ5DY1BA0LT	Rolling
MV-SUF1200GC/M	1.1"	3.45um	12MP	4096x3000	23.5fps	0.0141~29546.9ms	IMX304	Global
MV-SUF1205GC/M	1"	3.2um	12MP	4096x3072	28.5fps	0.0113~740.3ms	XGS12000	Global
MV-SUC404C/M	1.1"	5.94um	4MP	2048x2048	60fps	C:0.0081~136251.3ms M:0.0081~500ms	MindVision	Rolling
MV-SUC1206GC/M	1.1"	3.5um	12MP	4112x3088	30fps	0.0107~178956.96ms	MindVision	Global
MV-SUC1606GC/M	4/3"	3.5um	16MP	4112x4112	22.75fps	0.017~178956.96ms	MindVision	Global
MV-SUC2100C	4/3"	3.3um	21MP	5280x3956	18fps	0.014~7340ms	MindVision	Rolling
MV-SUC2500GC/M	1.1"	2.5um	25MP	5120x5120	14fps	0.0139~908.3ms	GMAX0505	Global
MV-SUS240GC/M	1/1.7"	4um	2.4MP	2048X1200	158.5fps	0.0041~10033.4ms	GMAX4002	Global
MV-SUS307GC/M	1/1.8"	3.4um	3MP	2048X1536	119.75fps	0.0053~44291.8ms	MindVision	Global
MV-SUS502M*	1/2.5"	2.2um	5MP	2592x1944	59fps	0.0084~553.4ms	AR0522	Rolling
MV-SUS507GC/M	2/3"	3.4um	5MP	2448x2048	75.25fps	0.064~13337.9ms	GMAX3405	Global
MV-SUS840C/M	1/1.8"	2.0um	8.4MP	3840x2160	45.75fps	0.0097~10139.6ms	IMX678	Rolling

注：1、*为新品；2、型号后缀：C：彩色、M：黑白；3、镜头接口提供转接环；4、SUC系列需接外部供电
Note: 1、* Indicates a new product; 2、Model suffixes: C stands for color, M stands for mono; 3、Lens adapters are available for the lens interface; 4、The SUC series requires external power supply.

双USB3.0接口工业相机

Double USB3.0 Interface Industrial Camera

S2UC 系列
S2UC Series



产品选型表

Product Selection Table

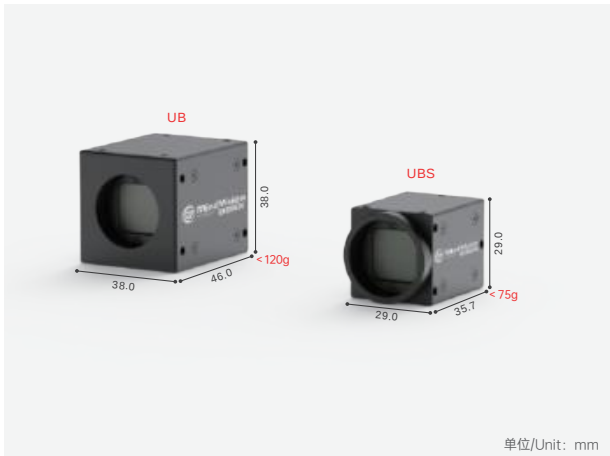
产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-S2UC1606GC/M	4/3"	3.5um	16MP	4096x4096	45fps	0.0054~90099.9ms	MindVision	Global
MV-S2UC2500GM	1.1"	2.5um	25MP	5120x5120	28.25fps	0.0068~812.5ms	GMAX0505	Global

注：1、*为新品；2、型号后缀：C：彩色、M：黑白；3、该系列需接外部供电
Note: 1、* Indicates a new product; 2、Model suffixes: C stands for color, M stands for mono; 3、This series requires external power supply.

USB2.0工业相机

USB2.0 Industrial Camera

UBS 系列 | UB 系列
UBS Series | UB Series



支持外触发，闪光灯同步
相机内可写入自定义数据
30万至1000万像素CMOS、CCD
支持8bit 到12bit raw 数据输出
带硬件帧缓存，支持32台以上相机同时工作
USB2.0接口，无需再外接电源，即插即用
支持Windows、Linux和ARM Linux、安卓系统

Support external trigger and flash synchronization.
Custom data can be written in the camera.
0.3MP to 10MP CMOS, CCD Sensor can be chosen.
Support 8bit to 12bit raw data output.
With hardware frame buffer, it supports more than 32 cameras working at the same time.
USB2.0 interface, no need for external power supply, plug and play.
Support windows, Linux, ARM Linux and Android systems.

产品选型表

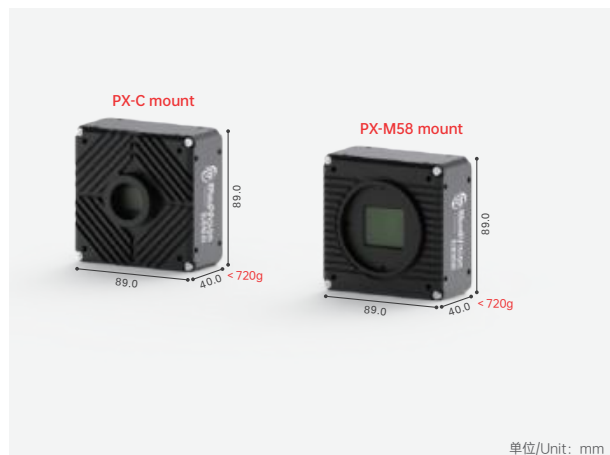
Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-UBS31GC/M	1/3"	6um	0.3MP	752x480	108fps	0.0176~270.7ms	MT9V024	Global
MV-UBS130GM	1/3"	3.75um	1.2MP	1280x960	39fps	0.019~18.2ms	AR0135	Global
MV-UBS130RC	1/3"	3.75um	1.2MP	1280x960	39fps	0.0325~62.4ms	AR0130	Rolling
MV-UBS131GC	1/3"	3.75um	1.2MP	1280x960	39fps	0.022~21.1ms	AR0134	Global
MV-UBS402C	1/1.8"	2.9um	4MP	2688x1520	9fps	0.023~1507.3ms	SC450AI	Rolling
MV-UBS500C/M	1/2.5"	2.2um	5MP	2592x1944	9fps	0.0582~905.1ms	C:MT9P006 M:MT9P031	Rolling
MV-UBS502C/M	1/2.5"	2.2um	5MP	2592x1944	8fps	0.0238~1556.5ms	AR0522	Rolling
MV-UBS1000C	1/2.3"	1.67um	10MP	3664x2748	5fps	0.064~1407ms	MT9J003	Rolling
MV-UC133GC/M	1/2.7"	4um	1.3MP	1280X1024	90fps	0-198 (exposure setting)	MindVision	Global
MV-UC401C	1/3"	2um	4MP	MJPG:2506X1440 YUY2:1280X720	13fps	0-31 (exposure setting)	MindVision	Rolling
MV-UC1601C	1/2.8"	1.12um	16MP	4656x3496	9fps	0-31 (exposure setting)	MindVision	Rolling
MV-UB31GC/M	1/3"	6um	0.3MP	752x480	108fps	0.0176~270.7ms	MT9V024	Global
MV-UB130GM	1/3"	3.75um	1.2MP	1280x960	39fps	0.019~18.2ms	AR0135	Global
MV-UB134GM*	1/2"	4.8um	1.3MP	1280x1024	36fps	0.0267~3506.1492ms	MindVision	Global
MV-UB500C/M	1/2.5"	2.2um	5MP	2592x1944	9fps	0.0582~905.1ms	C:MT9P006 M:MT9P031	Rolling
MV-UM801C*	1/1.8"	2.0um	8M	3840*2096	20fps(MJPG)	0-16ms	MindVision	Rolling

注：1、*为新品；2、型号后缀：C：彩色、M：黑白；3、镜头接口提供转接环
Note: 1、* Indicates a new product; 2、Model suffixes: C stands for color, M stands for mono; 3、Lens adapters are available for the lens interface.

CoaXPress高速工业面阵相机 CoaXPress Area Scan Camera

PX 系列 C 口 | PX 系列 M58 口
PX Series C mount | PX Series M58 mount



CXP-12接口，最大传输数据有效带宽4850Mbyte，是万兆网的4倍，USB3.0的12倍以上

优良的SDK设计，用户无需直接操作CXP采集卡，省去繁琐的配置过程，像使用千兆网工业相机一样简单

采用HD-BNC实现标准化的工业级线缆连接

根据应用环境可选装风冷散热器或鳍片散热器

支持1、2、4路灵活组合

CoaxPress 2.1标准协议，支持同轴电缆信号触发和电源供电

CXP-12 interface, maximum effective data transmission bandwidth 4850Mbyte, 4 times faster than that of 10gigabit network interface, 12 times faster than that of USB 3.0 interface.

The camera adopts an excellent SDK design, users do not need to operate the CXP capture card directly, eliminating the tedious configuration process, the use of the process is as simple as using a GigE industrial camera.

Adopt HD-BNC to achieve standardized industrial cable connection.

Air-cooled radiator or finned radiator depending on the application environment.

Support flexible combination of 1, 2, and 4 channels.

CoaxPress 2.1 standard protocol supports coaxial cable signal triggering and power supply.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-PX250GC/M	2/3"	4.5um	2.5MP	2048x1216	1876.5fps	0.0010-65.5350ms	GSPRINT4502	Global
MV-PX1000GC/M	22.9mm	4.5um	10MP	4608x2176	463.75fps	0.001~65.535ms	GSPRINT4510	Global
MV-PX2100GC/M	23.04x18.43mm	4.5um	21MP	5120x4096	226fps	0.001~65.535ms	GSPRINT4521	Global
MV-PX6500GC/M	29.9x22.4mm	3.2um	65MP	9344x7000	70.25fps	0.0020~67108.8640ms	MindVision	Global
MV-PX15000GC/M	53.0x29.4mm	3.2um	150MP	16556x9200	16fps	0.015~100ms	GMAX32152	Global
MV-PX25000M	64.84mm	2.81um	245MP	19200x12800	12.41fps	0.10953~60000ms	MindVision	Rolling
MV-PX41000C/M*	44.6 mm	1.5um	410MP	24576 x 16704	8fps	7.4us-1s	LI8030	Rolling

注：1、* 为新品；2、型号后缀：C：彩色、M：黑白

Note: 1、* Indicates a new product; 2、Model suffixes: C stands for color, M stands for mono.



CoaXPress高速工业线阵相机

CoaXPress Line Scan Camera

PXL 系列
PXL Series



16K 分辨率，RGB 真彩支持2TDI 模式，最大行频125KHz
CXP-12接口，最大传输数据有效带宽4850Mbyte，是万兆网的4倍，USB3.0的12倍以上
优良的SDK设计，用户无需直接操作CXP采集卡，省去繁琐的配置过程，像使用千兆网工业相机一样简单
CoaxPress 2.1标准协议，支持同轴电缆信号触发和电源供电
采用HD-BNC实现标准化的工业级线缆连接
根据应用环境可选装风冷散热器或鳍片散热器
支持1、2、4路灵活组合

16K resolution, RGB true color support 2TDI mode, maximum line frequency 125KHz.
CXP-12 interface, the maximum effective bandwidth of data transmission 4850Mbyte, which is 4 times of 10GigE and 12 times of USB3.0.
Excellent SDK design, users do not need to directly operate the CXP capture card, eliminating the tedious configuration process, as simple as using GigE industrial cameras.
CoaxPress 2.1 standard protocol, supports coaxial cable signal triggering and power supplies.
IStandardised industrial-grade cable connection using HD-BNC.
Air-cooled radiator or finned radiator depending on the application environment.
Support 1, 2, 4-way flexible combination.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	分辨率 Resolution	行频 Line frequency	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-PXL90M*	45.36x1.28mm	5um	9072x(256+32)	529K	0.0015~75ms	MindVision	Global
MV-PXL164C	81.92mm	5um	16384x6	40K	0.002~50ms	MindVision	Global
MV-PXL164BM	81.92mm	5um	16384x4	56K	0.002~50ms	MindVision	Global
MV-PXL164M	81.92mm	5um	16384x1	200K	0.002~50ms	MindVision	Global

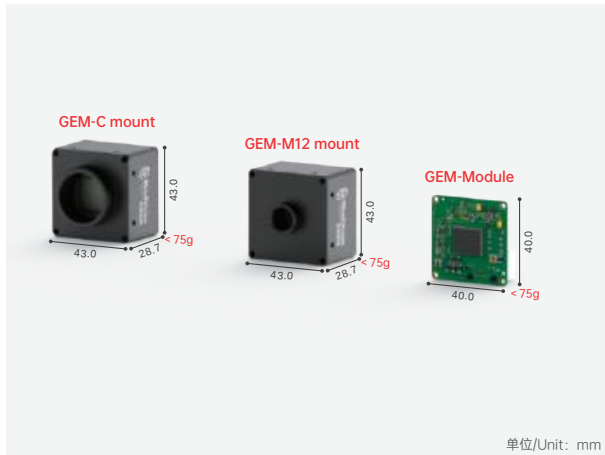
注：1、* 为新品；2、型号后缀：C：彩色、M：黑白
Note: 1、* Indicates a new product; 2、Model suffixes: C stands for color, M stands for mono.



GigE板级相机/模组

GigE Board Camera/Module

GEM 系列 整机 C 口、M12 口 | GEM 系列 单板模组
GEM Series camera C mount、M12 mount | GEM Series camera Single Board Module



单板设计，体积小，超薄尺寸
嵌入式系统集成更方便，集成度更高
支持8bit和12bit无损格式输出
可提供多种选择：单板/C接口/M12接口
相机自带可编程IO，支持外触发闪光灯同步拍照
支持PC Linux系统和ARM Linux系统，可集成于嵌入式设备中
兼容Vision协议，无缝兼容Halcon、VisionPro、Labview等视觉软件

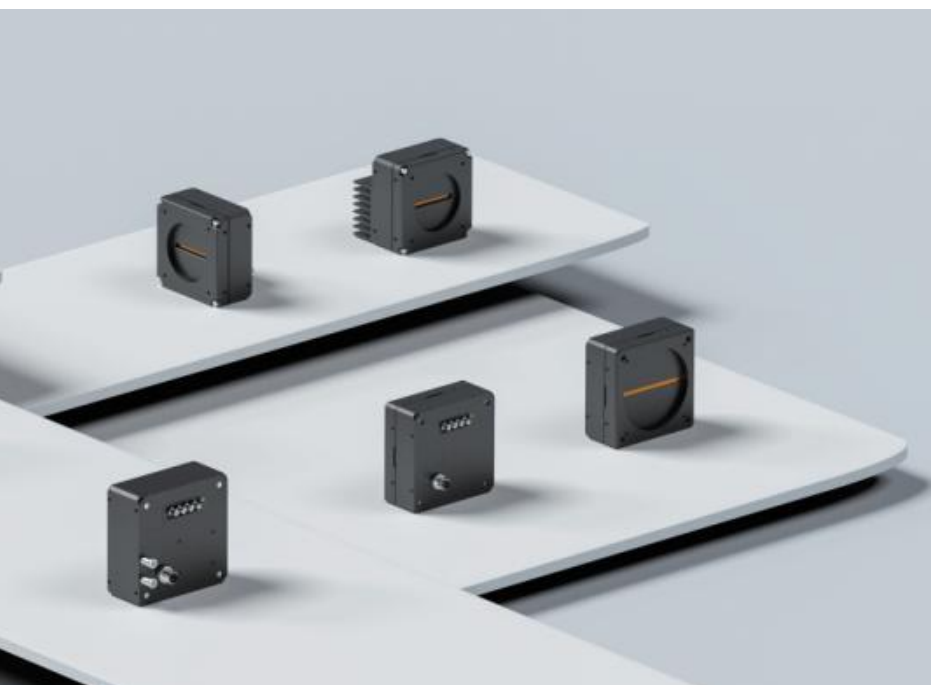
Single board design, small size, ultra-thin size.
Embedded system integration is more convenient and integrated.
Supports 8bit and 12bit lossless format outputs.
Multiple options are available: Single board /C interface /M12 interface.
The camera has its own programmable IO, which supports external trigger flash synchronous photography.
Support PC Linux system and ARM Linux system, which can be integrated into embedded devices.
Compatible with Vision protocol, seamlessly compatible with Halcon, VisionPro and Labview other visual software.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-GEM134GC/M	1/2"	4.8um	1.3MP	1280x1024	91.5fps	0.008~1048.6ms	PYTHON	Global
MV-GEM506C/M	1/2.7"	2.0um	5MP	2608x1958	24fps	0.021~1376.2ms	MindVision	Rolling
MV-GEM1201C/M	1/1.7"	1.85um	12MP	4000x3000	9.75fps	C:0.031~4063.2ms M:0.001~1310.7ms	IMX226	Rolling
MV-GEM1202C/M	1/2"	1.6um	12MP	4000x3000	9.75fps	0.034~9792ms	AR1202	Rolling
MV-GEM2000C/M	1"	2.4um	20MP	5488x3672	6fps	0.044~11534.3ms	IMX183	Rolling

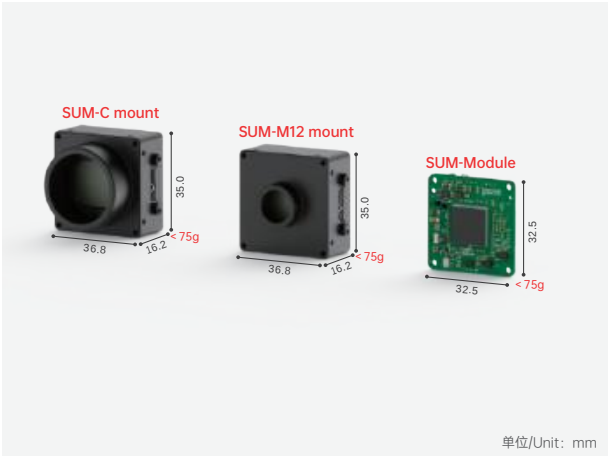
注：型号后缀：C：彩色、M：黑白
Note：2、Model suffixes: C stands for color, M stands for mono.



USB3.0板级相机/模组

USB3.0 Area Scan Camera

SUM 系列 整机 C 口、M12 口 | SUM 系列 单板模组
SUM Series camera C mount、M12 mount | SUM Series camera Single Board Module



单板设计，体积小巧，超薄尺寸
嵌入式系统集成更方便，集成度更高
支持8bit到12bit raw数据输出
可提供多种选择: 单板/C接口/M12接口
相机自带可编程IO，支持外触发闪光灯同步拍照
支持PC Linux系统和ARM Linux系统，可集成于嵌入式设备中兼容Vision协议，无缝兼容Halcon、VisionPro、Labview等视觉软件

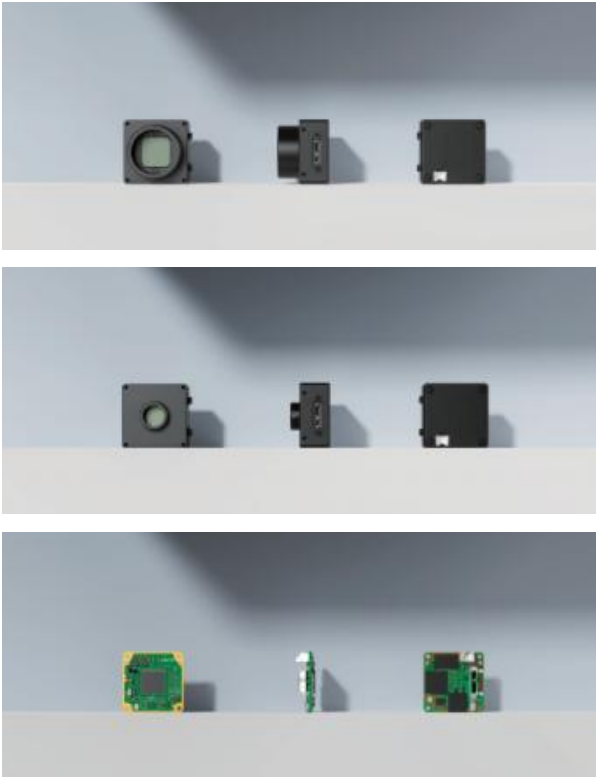
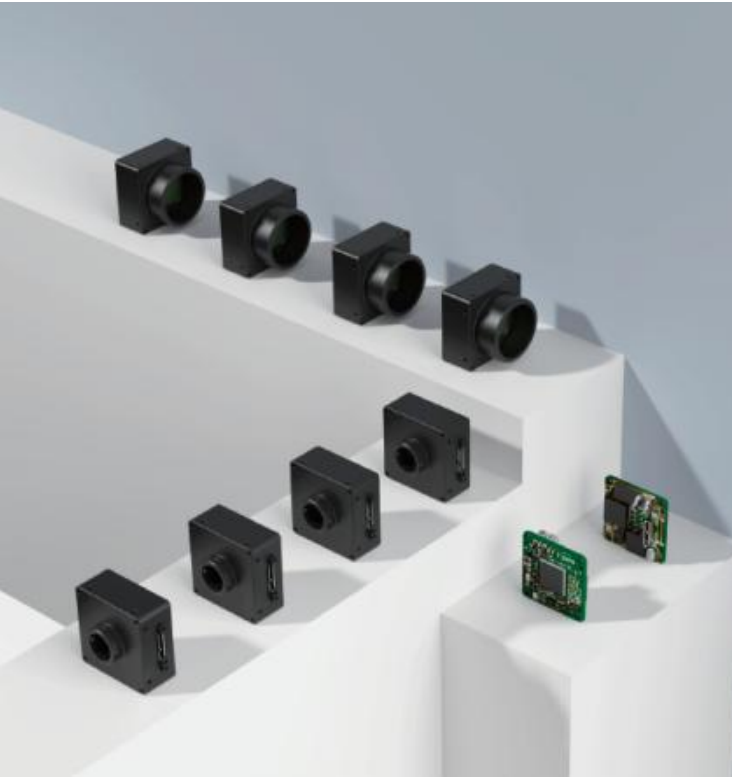
Single board design, small size, ultra-thin size.
Embedded system integration is more convenient and integrated.
Supports 8bit and 12bit raw data outputs.
Multiple options are available: Single board /C interface /M12 interface.
The camera has its own programmable IO, which supports external trigger flash synchronous photography.
Support PC Linux system and ARM Linux system, which can be integrated into embedded devices.
Compatible with Vision protocol, seamlessly compatible with Halcon, VisionPro and Labview other visual software.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-SUM33GC/M	1/5.6"	4um	0.3MP	640x480	725fps	0.0027~22.3ms	MindVision	Global
MV-SUM133GC/M	1/2.7"	4um	1.3MP	1280x1024	221.25fps	0.0043~35.2ms	MindVision	Global
MV-SUM134GC/M	1/2"	4.8um	1.3MP	1280x1024	202.25fps	0.0045~584.4ms	MindVision	Global

注：型号后缀：C：彩色、M：黑白
Note：2、Model suffixes: C stands for color, M stands for mono.



双目相机/模组

Binocular Camera/Module

MSU 系列 | MGE 系列
MSU Series | MGE Series

FPC软排线长度可自由更换，基线可灵活调整
支持无损灰度和RAW数据格式输出，非YUV格式
Sensor板尺寸可根据客户要求定制，匹配不同结构需求
支持连续软触发、硬触发工作模式，各个模式下双目图像均能自动同步，同步误差在微秒级别
可选USB3.0、GigE传输接口，其他接口可定制
提供专用SDK和驱动（非UVC），支持Windows、Linux、ARM Linux和苹果Mac OS和迈德威视单相机产品SDK完全兼容
支持Halcon、VisionPro、OpenCV等视觉软件
工作温度可支持-30~60度，可定制IP67防护外壳
模组预留2路RS232接口、1路GPIO、1路闪光灯输出、1路硬触发输入，接受定制



FPC flexible cable length can be freely changed, and the baseline can be flexibly adjusted.
Support lossless grayscale and raw data format output, non YUV format.
Sensor board size can be customized according to customer requirements to match different structural requirements.
It supports continuous soft trigger and hard trigger working modes, and the binocular images can be synchronize automatically, and the synchronization error is at the microsecond level.
USB3.0 and GigE transmission interfaces are optional, and other interfaces can be customized.
Provide special SDK and driver (non UVC), support windows, Linux and armlinux is fully compatible with Apple Mac OS and Mindvision single camera product SDK.
Support Halcon, visionpro, opencv and other visual software.
The working temperature can support -30~60 degrees, and the IP67 protective shell can be customized.
The module reserves 2 channels of RS232 interface, 1 channel of GPIO and 1 channel of flash output, 1-channel hard trigger input custom accepted.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-MSU33GC/M2-T	1/5.6"	4.0um	0.3MP	640×480	580fps	0.00124~20.7ms	SMARTSENS	Global
MV-MSU34GC/M2-T	1/4"	4.8um	0.3MP	640×480	380fps	0.0040~524.3ms	PYTHON	Global
MV-MSU133GC/M2-T	1/2.7"	4.0um	1.3MP	1280×1024	130fps	0.00194~31ms	SMARTSENS	Global
MV-MSU134GC/M2-T	1/2"	4.8um	1.3MP	1280×1024	123fps	0.0076~1001.8ms	PYTHON	Global
MV-MGE34GC/M2-T	1/4"	4.8um	0.3MP	640×480	190fps	0.0040~524.3ms	PYTHON	Global
MV-MGE131GC2-T	1/3"	3.75um	1.22MP	1280×960	42fps	0.014~53ms	AR0134	Global
MV-MGE134GC/M2-T	1/2"	4.8um	1.3MP	1280×1024	45fps	0.008~1024ms	PYTHON	Global

注：型号后缀：C：彩色、M：黑白
Note：2、Model suffixes: C stands for color, M stands for mono.

X86系列智能工业相机

X86 Smart Camera

ITA 系列 | ITAE 系列 | ITSI 系列

ITA Series | ITAE Series | ITSI Series



单位/Unit: mm

ITA: CPU Intel Atom Z8350 (1.44-1.92GHZ) , 2G/32G 4G/64G (Memory/Disk)

ITAE: CPU Intel N4120 (1.1-2.6GHZ) , 4G/32G 4G/64G (Memory/Disk)

显示HDMI×1支持1920×1080分辨率、以太网1000M×1、支持GigE Vision相机集成光源控制器，可选配LED照明组件，支持频闪同步功能

ITA: 支持外接USB2.0×2端口；ITAE: 支持USB2.0×1、USB3.0×1、支持触发x1、闪光灯x1、支持RS232 x1

M12 12芯螺纹航空接头，支持24V/2A电源输入

1路输入，2路输出接口可以设置输出延时，无需在程序中处理

支持Windows 10 64bit、Ubuntu16.04 64bit系统

内置USB2.0接口一路，方便拆装，可接加密狗使用

Display HDMI×1 supports 1920×1080 resolution, Ethernet 1000M×1, and supports GigE Vision cameras.

Integrated light source controller, optional LED lighting component, supporting strobe synchronization function.

ITA: Supports external USB2.0x2 ports; ITAE: Supports USB2.0x1, USB3.0x1, supports triggeringx1,Flashx1, supports RS232x1.

M12 12 core threaded aviation connector, supporting 12V/2A power input.

One input and two output interfaces can set output delay, without the need for processing in the program.

Supports Windows 10 64bit and Ubuntu 16.04 64bit systems.

Built in USB 2.0 interface for easy disassembly and can be connected to a dongle for use.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-ITA/ITAE31GC/M	1/3"	6um	0.3MP	752X480	107fps	0.0652~59.2ms	MT9V024	Global
MV-ITA/ITAE33GC/M	1/5.6"	4um	0.3MP	640X480	790fps	0.00124~20.7ms	SmartSens	Global
MV-ITA/ITAE34GC/M	1/4"	4.8um	0.3MP	640X480	402fps	0.0045~584.4ms	MindVision	Global
MV-ITA/ITAE130GM	1/3"	3.75um	1.2MP	1280X960	60fps	0.016~30ms	AR0135	Global
MV-ITA/ITAE131GC	1/3"	3.75um	1.2MP	1280X960	72fps	0.016~30ms	AR0134	Global
MV-ITA/ITAE133GC/M	1/2.7"	4um	1.3MP	1280X1024	245fps	0.00194~31ms	SC130GS	Global
MV-ITA/ITAE134GC/M	1/2"	4.8um	1.3MP	1280X1024	211fps	0.0045~584ms	PYTHON	Global
MV-ITA/ITAE200GC/M	1/1.8"	4.5um	2MP	1600X1200	60fps	0.015~91ms	EV76C570	Global
MV-ITA/ITAE202GC/M	2/3"	4.8um	2.3MP	1920×1200	165fps	Low:0.0039~256.1ms High:0.0039~5ms	PYTHON	Global
MV-ITA/ITAE231GC/M	1/1.2"	5.86um	2.3MP	1920×1200	40fps	0.0201~42112ms	IMX249	Global
MV-ITA/ITAE401GC/M	1"	5.5um	4MP	2048X2048	88fps	0.0054~704ms	MindVision	Global
MV-ITA/ITAE500C/M	1/2.5"	2.2um	5MP	2592X1944	15fps	0.0582~905.1ms	MT9P006	Rolling
MV-ITA/ITAE501GC/M	2/3"	3.45um	5MP	2448X2048	40fps	0.0133~13924ms	IMX264	Global

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-ITA/ITAE502C/M	1/2.5"	2.2um	5MP	2592X1944	59fps	0.0084~553.4ms	AR0522	Rolling
MV-ITA/ITAE630C/M	1/1.8"	2.4um	6.3MP	3088X2064	60fps	0.008~5000ms	IMX178	Rolling
MV-ITA/ITAE890GC/M	1"	3.45um	8.9MP	4096X2160	32fps	0.034~29546.9ms	C:IMX344 M:IMX267	Global
MV-ITA/ITAE1201C/M	1/1.7"	1.85um	12MP	4000X3000	32fps	0.0102~2665.1ms	IMX226	Rolling
MV-ITA/ITAE1600C/M	1/2.3"	1.34um	16MP	4608X3456	12fps	0.0233~7741ms	IMX206	Rolling
MV-ITA/ITAE2000C/M	1"	2.4um	20MP	5488X3672	19.5fps	0.0138~3608ms	IMX183	Rolling
MV-ITSI890GC/M	1"	3.45um	8.9MP	4096X2160	32fps	0.0141~29546.9ms	IMX267	Global

注：型号后缀：C：彩色、M：黑白
Note： 2、 Model suffixes: C stands for color, M stands for mono.

ARM系列智能工业相机

ARM Smart Camera

IHA 系列
IHA Series



具备高性能的AI算力，支持复杂算法
提供丰富的外设接口，便于设备扩展和集成
内置高性能图像处理器，支持3D降噪、宽动态范围等功能，提升图像质量
提供稳定、易用的SDK软件开发包，支撑客户产品快速量产
采用先进的低功耗架构，在提供高性能的同时，显著降低能耗，适合长时间运行

Equipped with high-performance AI computing power, supporting complex algorithms.
Provides a rich set of peripheral interfaces for easy device expansion and integration.
Built-in high-performance image processor, supporting 3D noise reduction, wide dynamic range, and other features to enhance image quality.
Offers a stable and user-friendly SDK (Software Development Kit) to support rapid product mass production.
Utilizes advanced low-power architecture, delivering high performance while significantly reducing energy consumption, suitable for long-term operation.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-IHA201C	1/2.8"	2.9um	2MP	1920X1080	30fps	0.02~121.9ms	MindVision	Rolling

注：1、* 为新品；2、型号后缀：C：彩色、M：黑白
Note： 1、 * Indicates a new product； 2、 Model suffixes: C stands for color, M stands for mono.

光口相机

Fiber Optic Camera

H2FL 系列
H2FL Series



支持 3 路分时频闪功能，满足多种拍摄需求
光纤传输抗干扰性强，数据传输稳定可靠
电信级光纤跳线，最远传输距离 100 米
兼容多种标准和 SDK，可缩短客户开发周期
具备多种图像处理功能，如 3D 降噪、ISP 加速等
电气特性良好，航空头供电 24V 2A，稳定可靠

Supports 3-channel time-sharing stroboscopic function to meet various shooting requirements.
Fiber optic transmission features strong anti-interference capability, with stable and reliable data transmission.
Carrier-grade fiber optic patch cord with a maximum transmission distance of 100 meters.
Compatible with multiple standards and SDKs, which can shorten the customer development cycle.
Equipped with multiple image processing functions, such as 3D noise reduction and ISP acceleration.
Good electrical characteristics, powered by a 24V 2A aviation connector, ensuring stable and reliable operation.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	行频 Line frequency	有效像素 Effective Pixels	传输带宽 Transmission bandwidth	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-H2FL84M*	41.04×1.28mm	5um	440KHz	8208×256	Dual 16Gbps	0.0022~198ms	MindVision	Global
MV-H2FL85C/M	0.75×57.5mm	7um	C:120KHz M:287.3KHz	8K	Dual 16Gbps	0.020~5ms	MindVision	Global
MV-H2FL165C/M*	0.75×57.5mm	3.5um	C:145KHz(8bit) M:290KHz(8bit)	16K	Dual 16Gbps	0.001~50ms	MindVision	Global
MV-H2F205GM*	1/1.2"	6um	1800fps	2M	Dual 16Gbps	1us~10s	MindVision	Global
MV-H2F1300GM*	1.8"	5.6um	280.25fps	13M	Dual 16Gbps	1us~10s	MindVision	Global
MV-XFL85C/M*	0.7x57.5mm	7um	152KHz(8bit)	8K	10Gbps	0.020~5ms	MindVision	Global
MV-XFL165C/M*	0.7x57.5mm	3.5um	76KHz(8bit)	16K	10Gbps	0.001~50ms	MindVision	Global

注：1、* 为新品；2、型号后缀：C：彩色、M：黑白
Note: 1、* Indicates a new product; 2、Model suffixes: C stands for color, M stands for mono.

工业远红外热成像仪

Industrial Far Infrared Thermal Imager

GF 系列
GF Series



采用高灵敏度与高分辨率的红外探测器, 提供清晰的红外图像和测温精度
采用RJ45千兆网以太接口, 100米远距离稳定传输
支持POE供电, 即插即用的驱动设计, 简单易用, 既具有网络通讯的稳定性又具有USB设备的使用方便性
热灵敏度 $\leq 55\text{mK}$, 热响应时间 $< 15\text{ms}$, 高达50HZ的帧率
支持多相机同时工作, 数量不限, 可任意组网, 长时间工作不掉线、不丢帧
自带硬件图像处理加速, 降低主机端CPU占用率
采用GigE Vision1.2视觉标准协议设计, 支持Halcon、VisionPro等软件

Adopt high sensitivity and high resolution infrared detector, providing clear infrared image and temperature measurement accuracy.
Adopt RJ45 Gigabit Ethernet interface, 100 metres long-distance stable transmission.
Support POE power supply, plug-and-play driver design, simple and easy to use, both the stability of network communication and USB device Stability of network communication and the convenience of using USB devices.
Thermal sensitivity $\leq 55\text{mK}$, thermal response time $< 15\text{ms}$, frame rate up to 50HZ.
Support multiple cameras working at the same time, the number of unlimited, can be any group network, long time work No drop, no frame loss.
With hardware image processing acceleration, reduce the host side of the CPU occupancy rate.
Adopt GigE Vision1.2 vision standard protocol design, support Halcon, VisionPro and other software.

产品选型表

Product Selection Table

产品型号 Model	光学尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	热灵敏度 Thermal sensitivity	曝光时间 Exposure time	传感器型号 Sensor model	快门方式 Shutter
MV-GF120	6.8mm×5.1mm	17 μm	0.12MP	400×300	50Hz	NETD $\leq 55\text{mK}$	1~6ms	GST417M	Automatic
MV-GF480 *	1.0625"	17 μm	0.48MP	800×600	50Hz	NETD $\leq 55\text{mK}$	1~6ms	GST817MC	Automatic

短波红外面阵工业相机

Short-wave Infrared Area Scan Camera

短波红外 GEC 系列
Short-wave Infrared GEC Series



InGaAs探测器, 响应波长0.4-1.7 μm
黑电平校正, 图像均匀性好
千兆网接口, 兼容Vision标准
专为低照度科研短波红外成像和显微成像设计
免驱直接支持Halcon、VisionPro等软件, 易于系统集成和开发

InGaAs detector, response wavelength 0.4-1.7 μm .
Black level correction, good image uniformity.
Gigabit network interface, compatible with vision standard.
Designed for short wave infrared imaging and microscopic imaging for low illumination scientific research.
Drive free directly supports Halcon, visionpro and other software, which is easy for system integration and development.

产品选型表

Product Selection Table

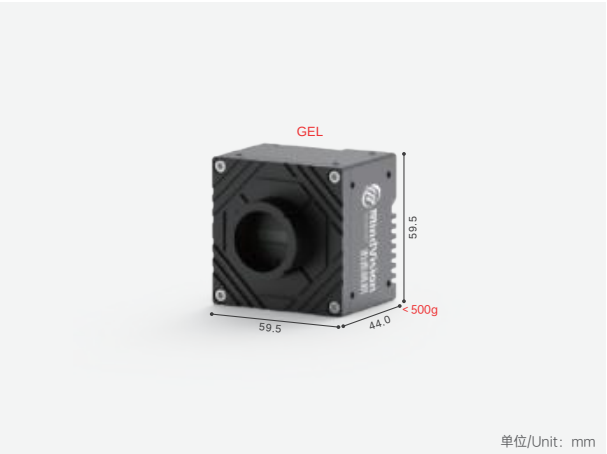
产品型号 Model	光学尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器类型 Sensor type	传感器型号 Sensor model	快门方式 Shutter
MV-GEC31I	9.6×7.68mm	15 μm	0.3MP	640×512	354fps	0.1~10035.2ms	InGaAs	MindVision	Global
MV-GEC30I	1/4"	5 μm	0.3MP	640×512	241fps	0.007~2150.4ms	InGaAs	IMX991	Global
MV-GEC130I	1/2"	5 μm	1.3MP	1280×1024	72fps	0.0130~7987.2ms	InGaAs	IMX990	Global
MV-GEC500I	1/1.4"	3.45 μm	5MP	2592×2056	22fps	0.007~2150.4ms	InGaAs	IMX992	Global
MV-XGC500I *	1/1.4"	3.45 μm	5MP	2592×2056	131fps	0.042~200ms	InGaAs	IMX992	Global

产品型号 Model	光学尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器类型 Sensor type	传感器型号 Sensor model	快门方式 Shutter
MV-GEC32I/LI*	9.6x7.68mm	15um	0.3MP	640*512	116fps	0.1-10035.2ms	/	MindVision	Global
MV-GEC33I*	9.6x7.68mm	15um	0.3MP	640*512	116fps	0.1-10035.2ms	/	MindVision	Global
MV-SUC32I/LI*	9.6x7.68mm	15um	0.3MP	640*512	120fps	0.1-10035.2ms	/	MindVision	Global
MV-SUC33I*	9.6x7.68mm	15um	0.3MP	640*512	120fps	0.1-10035.2ms	/	MindVision	Global

短波红外线阵工业相机

Short-wave Infrared Line Scan Camera

短波红外 GEL 系列
Short-wave Infrared GEL Series



使用InGaAs芯片，支持900-1700nm波段，软件自由设定
GEL10I行频最高可达18KHz；GEL20I行频最高可达40KHz
支持编码器信号的频分与倍频，与运动平台精确匹配
支持编码器同步触发、光电传感器与编码器组合同步触发等多种触发模式
硬件支持水平方向的像素ROI和垂直方向任意行（不超过规定上限）的自动拼接功能

Uses InGaAs chips, supports 900-1700nm band.
GEL10I line frequency up to 18KHz; GEL20I line frequency up to 40KHz.
Supports frequency division and multiplication of encoder signals for precise matching with motion platforms.
Support encoder synchronous trigger, photoelectric sensor and encoder combination synchronous trigger and other trigger modes.
Hardware support for horizontal pixel ROI and automatic splicing of any row in the vertical direction (not exceeding the specified upper limit).

产品选型表

Product Selection Table

产品型号 Model	光学尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	像元填充率 Pixel fill ratio	行频 Line frequency	曝光时间 Exposure time	传感器类型 Sensor type	传感器型号 Sensor model	快门方式 Shutter
MV-GEL10I	12.8×0.0125mm	12.5um	1024x1	100%	18K	0.005~50ms	InGaAs	MindVision	Global
MV-GEL20I	12.8×0.0125mm	12.5um	2048x1	100%	40K	0.005~50ms	InGaAs	MindVision	Global

紫外工业相机

UV Industrial Camera

紫外系列
UV Series



相机自带可编程IO
支持 8bit到 12bit数据输出
支持紫外波长拍摄，全局快门，支持外触发闪光灯同步拍照
一台电脑多个相机可稳定工作，长时间下不掉线、不丢帧
优良的SDK设计，即插即用
支持PC Linux系统和ARM Linux系统，可集成于嵌入式设备中
兼容Vision协议，无缝兼容Halcon、VisionPro、Labview等视觉软件

The camera comes with programmable IO.
Support 8bit to 12bit data output.
Support UV wavelength shooting, global shutter, support external trigger flash synchronized photo.
One computer with multiple cameras can work stably without dropping or losing frames under long time.
Excellent SDK design, plug and play.
Support PC Linux system and ARM Linux system, can be integrated into embedded devices.
Compatible with Vision protocol, seamlessly compatible with Halcon, VisionPro, Labview and other vision software.

产品选型表

Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率/行频 FPS/KHz	曝光时间 Exposure time	传感器类型 Sensor type	快门方式 Shutter
MV-GEC405U	1.1"	5.94um	4MP	2048×2048	27fps	0.017~291923.5ms	CMOS	Rolling

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率/行频 FPS/KHz	曝光时间 Exposure time	传感器类型 Sensor type	快门方式 Shutter
MV-SUC405U	1.1"	5.94um	4MP	2048×2048	59.5fps	0.0081~500ms	CMOS	Rolling
MV-SUC800GU	2/3"	2.74um	8MP	2840×2840	44.75fps	0.0074~124727.5ms	CMOS	Global
MV-PXL90U	45.36x1.28mm	5um	9K	9072x256	529KHz	0.0015~75ms	CMOS-TDI	Global
MV-H2FL84U	41.04x1.28mm	5um	8K	8208×256	440KHz	0.0022~198ms	CMOS	Global

同轴相机 Coaxial Camera

相机尺寸：极致紧凑，整机14mm×14mm，模组11.5*11.5mm。
 相机重量：整机<16g，模组<6g。
 相机功耗：<1W（超低功耗，运行冷静）。
 视觉核心：130万像素全局快门CMOS，分辨率1280×1024。
 帧率性能：≤6路：120 fps/路；12路满配：70 fps/路。
 系统接口：标准SMA接口（支持PoC单线集成）。
 连接方案：单根50Ω同轴线缆，一线全集成，最远15米。
 采集卡：PCIe 3.0 x4接口，单卡支持最多12路相机，
 同步I/O：12路独立触发输入，2路闪光灯控制输出。
 操作系统：支持Windows7/10/11，Linux系统。

Camera Size: Ultra-compact, 14 × 14 mm camera, 11.5 × 11.5 mm module
 Weight: < 16 g camera, < 6 g module
 Power Consumption: < 1 W (ultra-low power, cool operation)
 Imaging Core: 1.3 MP global shutter CMOS, 1280 × 1024 resolution
 Frame Rate: 120 fps/channel (≤6 channels); 70 fps/channel (12 channels)
 Interface: Standard SMA interface (supports PoC single-cable integration)
 Connection: Single 50Ω coaxial cable, all-in-one integration, up to 15 m
 Frame Grabber: PCIe 3.0 ×4, supports up to 12 cameras per card
 Sync I/O: 12 trigger inputs, 2 flash control outputs
 OS Support: Compatible with Windows 7/10/11 and Linux

产品选型表 Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	电压 Voltage	传感器型号 Sensor model	接口 Interface
MV-MS136GM/C*	1/4"	2.7um	1.3MP	1280x1080	120fps	12-24V	MindVision	SMA

微型工业相机 Micro Industrial Camera

GEM 系列
GEM Series



支持M12镜头，外形截面尺寸20×18mm
 相机彩色/黑白可选，镜头可替换，视野范围不受局限
 千兆网接口，100米远距离稳定传输
 支持多相机同时工作，数量不限制，可任意组网
 自带硬件图像处理加速，降低主机端CPU占用率
 兼容Vision标准，免驱直接支持Halcon、VisionPro等软件
 Supports M12 lenses with a profile cross-section size of 20 x 18mm.
 Camera color / mono optional, the lens can be replaced, the field of view is not limited.
 Gigabit network interface, 100 meters long-distance stable transmission.
 Supports multiple cameras working simultaneously with unlimited number of cameras, which can be arbitrarily networked.
 Comes with hardware image processing acceleration, reducing CPU occupancy on the host side.
 Compatible with Vision standard, directly support Halcon, VisionPro and other software without driver.

产品选型表 Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器类型 Sensor type	快门方式 Shutter
MV-GEM133GC/M	1/2.7"	4um	1.3MP	1280X1024	91fps	0.01~81.9ms	CMOS	Global

笔式Mini相机
Pen Mini Camera

GEM 系列
GEM Series



支持M12镜头，外形尺寸20x116.6mm
相机彩色/黑白可选，镜头可替换视野范围不受局限
千兆网接口，100米远距离稳定传输
支持多相机同时工作，数量不限制，可任意组网
自带硬件图像处理加速，降低主机端CPU占用率
兼容Vision标准，免驱直接支持Halcon、VisionPro等软件
Support M12 lens, form factor 20x116.6mm.
Camera color / mono optional, lens replaceable field of view is not limited.
Gigabit network interface, 100 meters long-distance stable transmission.
Supports multiple cameras working simultaneously with unlimited number of cameras, which can be arbitrarily networked.
Comes with hardware image processing acceleration, reducing CPU occupancy on the host side.
Compatible with Vision standard, directly support Halcon, VisionPro and other software without driver.

产品选型表
Product Selection Table

产品型号 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	分辨率 Resolution	帧率 Frame rate	曝光时间 Exposure time	传感器类型 Sensor type	快门方式 Shutter
MV-GEM232GC/M	1/2.6"	3um	2.3MP	1920x1200	52fps	C:0.014~786.4ms M:0.014~917.5ms	CMOS	Global

90度直角工业相机
90° Industrial Camera

GE 90° 系列 | GEF 90° 系列 | SUA 90°系列 | SUF 90 系列
GE 90° Series | GEF 90° Series | SUA 90° Series | SUF 90° Series



迈德威视在国内首家推出了90度转角工业相机，多个标准机系列可通过卧装方式大幅度缩短Sensor面垂直向上的空间，垂直方向高度只有29mm，解决了市面上设备安装空间限制问题。90度转角版本相机的性能参数同标准机一致，只是结构上做了调整，相机软件和SDK并无差别，在选择产品型号时加上-90的后缀表示90度转角相机。
目前支持90度转角结构的相机分别是MV-GE、MV-GEF、MV-SUA、MV-SUF系列。如需要更多型号或系列的支持请和我们的业务人员取得联系。

Mindvision is the first company to launch a 90 ° industrial camera in China . Several standard machine series can greatly shorten the vertical upward space of the sensor surface by means of horizontal installation. The height in the vertical direction is only 29mm, which solves the problem of space limitation for equipment installation in the market. The performance and parameters of the 90 ° version camera are the same as standard machine, for only adjusting the structure. There is no difference between the camera software and the SDK. When selecting the product model, the suffix -90 means 90° camera.
At present, the cameras supporting 90 degree angle structure are MV-GE, MV-GEF, MV-GED, MV-SUA and MV-SUF series. If more models or series are required,please contact our sales.

3D激光轮廓仪

3D Industrial Camera

3DL 系列 | 3DD 系列

3DL Series | 3DD Series



超大测量范围、超高扫描速率、超高精度测量

采用沙姆结构，增加Z向（深度）测量范围，保持全量程清晰成像

HDR功能有效解决不同反射率和不同颜色带来的干扰

采用高帧率高分辨率CMOS，每条轮廓包含高达2048个测量点，轮廓扫描速度高达10kHz

采用450/405nm蓝光激光器或638nm红光激光器，配备窄带滤光片

Ultra-large measuring range, ultra-high scanning rate, ultra-high precision measurement.

Adopting Scheimpflug principle to increase Z-direction (depth) measurement range and maintain clear imaging in full range.

HDR function effectively reduces interference caused by different reflectivity and different colors.

Utilizing high frame rate high resolution CMOS, each contour contains up to 2048 measurement points and the contour scanning speed is up to 10kHz.

Uses 450/405nm blue laser or 638nm red laser with narrow band filter.

产品选型表

Product Selection Table

产品型号 Model	数据点 Data points	帧率 Frame rate	线性度Z Linearity Z	Z轴重复性精度 Z-axis repeatability accuracy	X轴分辨率 X-axis resolution	Z轴分辨率 Z-axis resolution	激光波长 Laser wavelength
MV-3DL2048G-AB/AB1	2048	1200FPS	±0.015%	0.5um	28.125~43.96um	0.3um	AB:450nm AB1:405nm
MV-3DL2048G-BB/BR	2048	2000FPS	±0.03%	3um	84.85~241.89um	1.5um	BB:450nm BR:638nm
MV-3DL2048G-CB	2048	2000FPS	±0.03%	2um	215.5~393.8um	1um	405nm

产品型号 Model	近端视场 Near field of view	远端视场 Far field of view	工作距离 Working distance	Z轴重复性精度 Z-axis repeatability accuracy	Z轴精度 Z-axis accuracy	基线长度 Baseline length	分辨率 Resolution
MV-3DD240-S45	390×220mm	770×430mm	500-1000mm	max@20.3um	0.05mm@0.8m	145mm	2048×1200

视野范围

Field of View

产品型号 Model	中心工作距 Working distance	近端视野 Proximal visual field	中心视野 Central visual field	远端视野 Distant visual field	净范围 Minimum working distance	测量范围 Measuring height range
MV-3DL2048G-AB/AB1	112mm	58mm	70mm	89mm	82mm	76mm
MV-3DL2048G-BB/BR	283.9mm	174mm	255mm	470mm	167mm	400mm
MV-3DL2048G-CB	195mm	441.4mm	570mm	806.6mm	60.7mm	379.7mm

PCIe扩展卡

PCIe Card



总线接口：PCI Express ×4；接口数量，4个接口
USB接口：4×USB3.0接口，兼容USB2.0/1.1/1.0
USB接插件：4×位于前面板USB3.0Type-A接插件
系统支持 Windows 7/8/10、Linux

Bus interface: PCI Express × 4; number of interfaces, 4 interfaces.
USB interface: 4 × USB3.0 ports compatible with USB2.0/1.1/1.0.
USB connector: 4 × USB3.0 Type-A connectors on the front panel.
Supported OS: Windows 7/8/10, Linux

技术参数

Technical Parameters

产品型号 Model	PCIe USB3.0 4口扩展卡 PCIe USB3.0 4-port expansion card
总线接口 Bus interface	PCI Expressx4 Gen2 接口；2.5GB/s总带宽，每个口提供高达600MB/s PCI Expressx4 Gen2 interface; 2.5GB/s total bandwidth, up to 600MB/s per port
USB接口 USB interface	4×USB3.0接口，兼容 USB2.0/1.1/1.0 4×USB3.0 ports, compatible with USB2.0/1.1/1.0
USB接插件 USB connector	4×位于前面板 USB 3.0 Type-A 接插件(M2 螺丝固定) 4xUSB 3.0 Type-A connectors on front panel (fixed with M2 screws)
USB控制器 USB controller	2×ASM3142 主控器 2 × ASM3142 host controllers
USB每端口限流控制 USB port current limiting control	用户可选择 1500mA 每端口限流控制 User selectable 1500mA per port current limit control
电源需求 Power demand	自 PCI Express 总线取电：最大 2.0A @3.3V；自 PCI Express 总线取电：最大2.8A @12V，用于外部设备供电 Power from PCI Express bus: 2.0A max @ 3.3V; Power from PCI Express bus: 2.8A max @ 12V for external device power supply
工作环境 Working environment	工作温度：0°C~60°C，有风流；存储温度：-40°C~70°C；相对湿度：5%~90%，非冷凝 Operating Temperature:0°C~60°C with airflow; Storage temperature:-40°C~70°C; Relative humidity:5%~90%, non-condensing
系统支持 System support	Windows 7/8/10、Linux
外形尺寸 Dimensions	W 168 mm × L 112 mm

千兆以太网卡
GigE Card



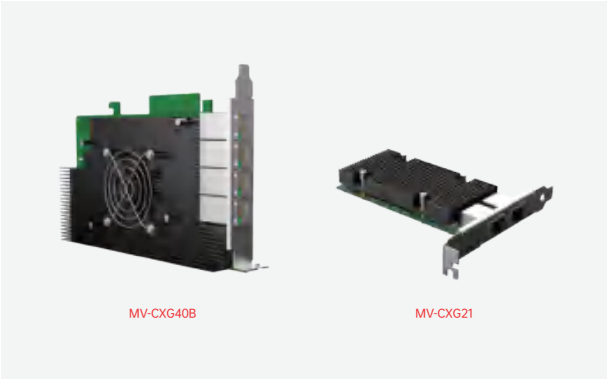
支持4通道独立的千兆以太网端口，兼容PCI Express x4
支持9KB巨型帧, 支持多卡多相机
兼容插槽PCI-E 16x/8x/4x
IEEE 1588 (PTP 技术, 仅硬件)

Supports 4 independent Gigabit Ethernet ports; compatible with PCI Express x4
Supports 9KB jumbo frames; supports multi-card and multi-camera configurations
Compatible with PCIe x16/x8/x4 slots
IEEE 1588 (PTP technology, hardware only)

技术参数
Technical Parameters

产品型号 Model	PCIe 4口 POE 千兆网卡 PCIe 4-port PoE Gigabit Network Card	PCIe 4口 千兆网卡 PCIe 4-port Gigabit Network Card
总线接口 Bus interface	PCI Express x4 Gen2	
以太网接口 Ethernet interface	4x10/100/1000Mbps RJ45 网络接口 全双工、半双工智能侦测自适应 4x10/100/1000Mbps RJ45 network ports; Full-duplex, half-duplex intelligent detection and adaptation	
芯片 Chip	Intel i210AT	
功能 Function	以太网供电，兼容IEEE 802.3af/at；支持9KB巨型帧； 支持多卡多相机；POE 电源管理；POE 保护 Power over Ethernet, compatible with IEEE 802.3af/at; support 9KB jumbo frames; Supports multi-card and multi-camera configurations; POE power management; POE protection	兼容 IEEE 802.1P/802.1Q/802.310Base-T/802.3u100Base-TX/ 802.3ab1000Base-T；支持 9KB巨型帧，支持多卡多相机 Compatible with IEEE 802.1P/802.1Q/802.3 10Base-T/802.3u100Base-TX/ 802.3ab 1000Base-T; support 9KB jumbo frames and multi-card multi-camera
兼容插槽 Compatible slots	PCIe 16x/8x/4x	PCIe 16x/8x/4x(PCIe 2x/1x支持需连接器后端开口) PCIe 16x/8x/4x (PCIe 2x/1x support requires connector rear opening)
网络环境 Network	千兆及以下网络 Gigabit and below network	
指示灯 Indicator	ACT：指示灯闪烁，该端口有数据收发；LINK：该指示灯长亮时，表明链路正常；带POE版本：该指示灯长亮时，表明给外设备正常供电 ACT: The indicator light flashes, indicating that the port is receiving and sending data. LINK: When the indicator light is constantly on, it indicates that the link is normal. Additionally, with POE function: When the indicator light is constantly on, it indicates that power is being supplied normally to the external device.	
电源要求 Power	使用 4-pin 电源连接器，最大 100W POE 电源(+12V@8A)； 使用 PCIe 插槽，最大 20W POE 电源(+12V@2.1A) Using a 4-pin power connector with a maximum POE power of 100W (+12V@8A); Using a PCIe slot with a maximum POE power of 20W (+12V@2.1A)	/
运行环境 Operating environment	工作温度：0°C~70°C；存储温度：-40°C~70°C；相对湿度：5%~90%，非冷凝 Operating temperature: 0°C~70°C; Storage temperature: -40°C~70°C; Relative humidity: 5%~90%, non-condensing	
系统支持 System support	Windows 7/8/10、Linux	
外形尺寸 Dimensions	W 168 mm × L 112 mm	W 140 mm × L 100 mm

万兆以太网卡
10GigE Card



GigEVision标准协议组帧
低传输延迟，低CPU负荷
高可靠性，丢包自动重传
PCIe3.0X8，最大带宽40Gbps
具备标准万兆网卡功能，不接相机时，可作为普通标准万兆网口使用
大容量板载内存，可缓存多张图像

GigE Vision standard protocol framing
Low latency and low CPU overhead
High reliability, automatic retransmission of lost packets.
PCIe3.0X8, maximum bandwidth of 40Gbps.
Equipped with standard 10 Gigabit Ethernet card function, when not connected to the camera, it can be used as a normal standard 10 Gigabit Ethernet port.
Large on-board memory, capable of caching multiple images.

技术参数
Technical Parameters

产品型号 Model	MV-CXG40B	MV-CXG21
接口数量 Number of ports	4路 4 channels	2路 2 channels
总线类型 Bus type	PCIe3.0×8	PCIe gen2.0×4
帧缓存 Frame buffer	4G Byte	2G Byte
接口类型 Interface type	万兆以太网 10 -Gigabit Ethernet	
接口速率 Interface rate	10G/5G/2.5G/1G/100M	
传输接口 Transmission interface	RJ45	
传输距离 Transmission distance	100m	
标准协议 Standard Protocol	IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3x、IEEE 802.3af、IEEE 802.3at	
驱动支持 Driver support	Windows 7/Windows 10/Ubuntu	
功能特点 Key Features	GigEVision组帧 GigEVision framing	
电源供电 Power supply	12V PCIe/12V ATX	
功耗 Power consumption	<20W	
散热 Heat dissipation	风冷 Active Cooling (Fan)	散热件散热 Heatsink heat dissipation
运行环境 Operating environment	工作温湿度：0~50℃；20~80%（无凝结）、储存温湿度：-30~60℃；20~95%（无凝结） Operating temperature and humidity：0~50℃；20~80%(No condensation). Storage temperature and humidity：-30~60℃；20~95%(No condensation)	
外形尺寸 Dimensions	203.5x126.25x22.1mm Flap:191.5x98.5mm	144.9x56.1x22.65mm
重量 Weight	<500g	

光口采集卡
Optical Fiber Capture Card



配备2路16Gbps光纤接口（SFP28），支持高速数据传输
采用PCIe4.0x4总线，提供高速稳定的数据传输通道
兼容Windows7/Windows10/Ubuntu
<20W低功耗，被动散热，适合长时间运行

Equipped with two 16Gbps fiber interfaces (SFP28), supporting high-speed data transmission.
PCIe 4.0 x4 interface provide a high-speed and stable data transmission channel.
Compatible with Windows7/Windows10/Ubuntu.
<20W Low Power Consumption, Passive Cooling, Suitable for Long-term Operation.

技术参数
Technical Parameters

产品型号 Model	MV - CHF20
接口类型 Interface Type	光纤采集卡 Fiber Optic Capture Card
接口速率 Interface Rate	单路16Gbps Single-Channel 16Gbps
接口数量 Number of Interfaces	2路 2 channels
传输介质和接口 Transmission Medium and Interface	SFP28
传输距离 Transmission Distance	100m
总线类型 Bus Type	PCIe4.0x4
帧缓存 Frame Buffer	2G byte
驱动支持 Driver Support	Windows7/Windows10/Ubuntu
电源供电 Power Supply	12V@PCIe
功耗 Power Consumption	< 20W
散热 Heat Dissipation	自然散热 Passive Cooling
运行环境 Operating environment	工作温湿度：0~50°C；20~80%（无凝结）、储存温湿度：-30~60°C；20~95%（无凝结） Operating temperature and humidity: 0~50°C；20~80%(No condensation). Storage temperature and humidity: -30~60°C；20~95%(No condensation)
外形尺寸 Dimensions	144.9x120.6x22mm

定制流程 Customization Process



定制服务 OEM/ODM Customization(OEM/ODM)

各种接口的相机定制

Customization of cameras with various interfaces

USB2.0、USB3.0、千兆网、光纤、万兆网、CXP、无线
USB2.0, USB3.0, GigE, Fiber Optic, 10 GigE, CXP, Wireless

各种附加功能的定制

Customization of various additional functions

可编程IO、自动对焦、防水外壳、电池供电、
特殊的结构匹配、集成光源和其他控制电路
Programmable IO, auto focus, waterproof case, special structure matching,
battery power supply, integrated light source and other control circuits

各种波段的相机定制

Customization of cameras of various wavebands

紫外、可见光、近红外、短波红外、远红外
Ultraviolet, visible light, near-infrared, short-wave infrared, far-infrared

各种品牌规格的Sensor

Sensors of various brand specifications

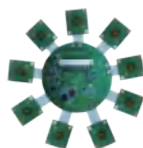
SONY、安森美、OV、长光辰芯、思特威等
SONY, ON Semiconductor, OmniVision, Gpixel, SmartSens, etc.

产品类型

Product Category



IP67 防水相机
IP67 Waterproof Camera



多目模组定制
Multi-Camera Module Customization



手持式热红外相机
Handheld Thermal Infrared Camera



双目模组定制
Binocular Module Customization



90°转角相机
90° Industrial Camera



单目模组定制
Monocular Module Customization



更多定制产品
more customized products



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规格参数可能会有变化，恕不另行通知

Product specifications may vary as we continue to improve our designs.