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機器視覺工業相機

Machine Vision Industrial Camera

產品型錄
Product Brochure



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金品企業有限公司
HUNSON ENTERPRISE CO.,LTD

規格參數可能有變化，恕不另行通知。 Product specifications may vary as we continue to improve our designs.

COMPANY PROFILE

公司簡介

金品企業有限公司，自2013年成立以來，便深耕於機器視覺領域，專注於其研發、生產和製造，期許成為台灣工業相機後起之秀。身為專業的工業相機製造商，金品提供全面的工業相機類產品開發服務，產品線覆蓋面陣相機、線陣相機、熱成像相機、智慧相機、3D相機、雙目相機模組，另外還有CIS相機、客製化相機整機及相機模組等，持有產品專利和軟體著作權共計100多項。其產品在科學研究、智慧交通、生物醫療、非標自動化等多個領域廣泛應用，並與許多大學、研究機構及產業龍頭企業建立了長期穩定的合作關係。

Since its inception in 2013, Hunson has been dedicated to the research, development, production, and manufacturing of machine vision, with the aspiration of becoming a rising star in Taiwan's industrial camera industry. As a manufacturer specializing in hardware development, Hunson offers a comprehensive product portfolio, including area scan cameras, line scan cameras, thermal imaging cameras, smart cameras, 3D cameras, binocular camera modules, CIS camera 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. Hunson has established long-term, stable partnerships with numerous universities, research institutions, and industry-leading enterprises. Guided by a commitment to innovation and excellence, Hunson remains steadfast in advancing camera technology and fostering mutually beneficial collaborations with clients worldwide.

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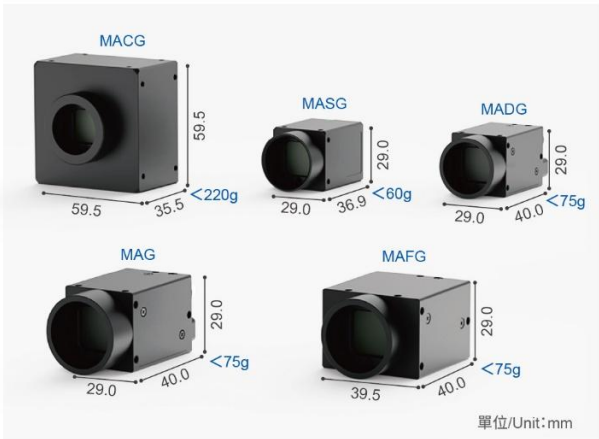
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GigE 工業面陣相機

GigE Area Scan Camera

MAG系列 | MAFG 系列 | MADG 系列 | MASG 系列 | MACG 系列
MAG Series | MAFG Series | MADG Series | MASG Series | MACG Series



產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA31G-GC/M	1/3"	6.0um	0.3MP	752X480	108.25fps	0.017~57.1ms	MT9V024	Global
HN-MA33G-GC/M	1/2.7"	8.0um	0.3MP	640X480	160fps	0.006~49.1ms	SmartSens	Global
HN-MA34G-GC/M	1/4"	4.8um	0.3MP	640X480	392.25fps	0.004~524.3ms	PYTHON	Global
HN-MA40G-GC/M	1/2.9"	6.9um	0.4MP	720X540	299fps	0.005~2999.7ms	IMX287	Global
HN-MA130-GC	1/3"	3.75um	1.2MP	1280X960	60.5fps	0.016~1048.6ms	AR0130	Rolling
HN-MA130G-GM	1/3"	3.75um	1.2MP	1280X960	60.75fps	0.016~30.7ms	AR0135	Global
HN-MA130-GM	1/2"	5.2um	1.3MP	1280X1024	30fps	0.032~524.3ms	MT9M001	Rolling
HN-MA131G-GC	1/3"	3.75um	1.3MP	1280X960	72.25fps	0.014~53.8ms	AR0134	Global
HN-MA133G-GC/M	1/2.7"	4.0um	1.3MP	1280X1024	91fps	0.0061~50ms	SC130GS	Global
HN-MA134G-GC/M	1/2"	4.8um	1.3MP	1280X1024	91.5fps	0.008~1048.6ms	PYTHON	Global
HN-MA200G-GC/M	1/1.8"	4.5um	2MP	1600x1200	60fps	0.015~95.7ms	EV76C570	Global
HN-MA200-GC	1/2.8"	2.9um	2MP	1920X1080	30fps	0.02~121.9ms	SONY	Rolling
HN-MA202G-GC/M	2/3"	4.8um	2MP	1920X1200	51fps	0.005~327.7ms	PYTHON2000	Global
HN-MA203G-GC/M*	1/1.7"	4.5um	2MP	1600X1200	61.5fps	0.0126~211392.9090ms	IMX430	Global
HN-MA231G-GC/M	1/1.2"	5.86um	2.3MP	1920X1200	40.25fps	0.02~41943ms	IMX249	Global
HN-MA232G-GC/M	1/2.6"	3.0um	2.3MP	1920X1200	52fps	0.014~917.5ms	AR0234	Global
HN-MA300G-GC/M	1/1.8"	3.45um	3MP	2048X1536	38fps	0.016~16777ms	IMX265	Global
HN-MA300-GC	1/2"	3.2um	3MP	2048X1536	13fps	0.014~768ms	MT9T001	Rolling
HN-MA500-GC/M	1/2.5"	2.2um	5MP	2592X1944	15.25fps	0.033~513.2ms	C:MT9P006 M:MT9P031	Rolling
HN-MA501G-GC/M	2/3"	3.45um	5MP	2448X2048	24fps	0.001~1048.6ms	IMX264L	Global
HN-MA502-GC/M	1/2.5"	2.2um	5MP	2592X1944	24fps	0.02~155.5ms	AR0522	Rolling

特有的資料包重傳技術, 保證資料可靠傳輸
自帶硬體影像處理加速, 降低主機端 CPU 佔用率
像素從 30 萬像素至 2000 萬像素, CCD 和 CMOS 可選
支援多相機同時工作, 數量不限制, 可任意組網
支援外觸發和閃光燈同步, 多達七路 GPIO, 全部光電隔離
優良的 SDK 設計, 像使用USB相機一樣簡單, 即插即用
相容 Vision標準, 免驅直接支援 Halcon、VisionPro 等軟體
GigE 介面, 100 公尺遠距離穩定傳輸, 支援 POE 供電 (選配)

Unique packet retransmission technology to ensure reliable data transmission.
Built-in hardware image processing speed, 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).

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA502G-GC/M	1"	4.8um	5MP	2592X2048	23fps	0.005~327.7ms	PYTHON5000	Global
HN-MA505G-GC/M	2/3"	3.2um	5MP	2592X2048	22fps	0.042~1376.2ms	XGS5000	Global
HN-MA506-GC/M*	1/2.7"	2.0um	5MP	2608x1944	24fps	0.021~1376.2ms	Hunson	Rolling
HN-MA508-GM*	1"	4.8um	5MP	2744x1836	5fps	0.057~14942.2ms	Hunson	Rolling
HN-MA630-GC/M	1/1.8"	2.4um	6.3MP	3088X2064	18.75fps	0.025~14448ms	IMX178	Rolling
HN-MA800-GC/M	1/1.8"	2.0um	8MP	3840X2160	14.25fps	0.062~2031.6ms	Hunson	Rolling
HN-MA1000-GC/M	1/2.3"	1.67um	10MP	3664X2748	8fps	0.043~950.8ms	MT9J003	Rolling
HN-MA1201-GC/M	1/1.7"	1.85um	12MP	4000X3000	9.75fps	0.01~1310.7ms	IMX226	Rolling
HN-MA1202-GC/M	1/2"	1.6um	12MP	4000X3000	9.75fps	0.034~9792ms	AR1202	Rolling
HN-MA1600-GC/M	1/2.3"	1.34um	16MP	4608X3546	7fps	0.039~12939.3ms	IMX206	Rolling
HN-MA2000-GC/M	1"	2.4um	20MP	5488X3672	6fps	0.044~11534.3ms	IMX183	Rolling
HN-MA2002-GC	1"	2.4um	20MP	5488X3672	6fps	0.045~11796.4ms	Hunson	Rolling
HN-MA32D-GC/M	1/3"	7.4um	0.3MP	640X480	164.75fps	0.0001~6500ms	SHARP	Global
HN-MA130D-GC/M	1/3"	3.75um	1.3MP	1280x960	43.5fps	0.0001~24000ms	SHARP	Global
HN-MA200D-GC/M	1/1.8"	4.4um	2MP	1600x1200	C:15.25fps M:27.5fps	C:0.0001~48000ms M:0.0001~24000ms	SHARP	Global
HN-MA500D-GC/M	2/3"	3.45um	5MP	2448x2048	9.25fps	0.0001~24000ms	SHARP	Global
HN-MA501D-GC/M	2/3"	3.45um	5MP	2448x2048	15fps	0.0001~6000ms	SHARP	Global
HN-MA401FG-GC/M	1"	5.5um	4MP	2048x2048	29fps	0.016~11534.3ms	Hunson	Global
HN-MA890FG-GC/M	1"	3.45um	8.9MP	4096X2160	13.5fps	0.034~71303.1ms	IMX304	Global
HN-MA1200FG-GC/M	1.1"	3.45um	12MP	4090X3000	9.5fps	0.034~71303.1ms	IMX304	Global
HN-MA1205FG-GC/M	1"	3.2um	12MP	4096X3072	9.5fps	0.031~2031.6ms	XGS12000	Global
HN-MA202SG-GC/M *	2/3"	4.8um	2MP	1920x1200	51fps	0.005~327.7ms	PYTHON2000	Global
HN-MA240SG-GC/M *	1/1.7"	4um	2.4MP	2048x1200	47.25fps	0.0165~276824ms	GMAX4002	Global
HN-MA507SG-GC/M *	2/3"	3.4um	5MP	2448X2048	24fps	0.0201~337222ms	GMAX3405	Global
HN-MA404C-GC/M*	1.1"	5.94um	4MP	2048X2048	28fps	0.017~288568.1ms	Hunson	Rolling
HN-MA406CG-GM	4/3"	7um	4MP	2048X2048	26fps	0.0094~157705.8ms	Hunson	Global
HN-MA501C-GM	4/3"	3.3um	5MP	2640X1968	21.25fps	0.011~5767.2ms	Hunson	Rolling
HN-MA1206CG-GC/M*	1.1"	3.5um	12MP	4112x3088	9.25fps	0.0327~548614.9ms	Hunson	Global
HN-MA1606CG-GC/M*	4/3"	3.5um	16MP	4112x4112	7.25fps	0.0327~548614.9ms	Hunson	Global
HN-MA2500CG-GC/M*	1.1"	2.5um	25MP	5120x5120	4.5fps	0.042~134007.97ms	GMAX0505	Global

註:1*為新品;2*型號後綴:C\彩色\M\黑白;3\鏡頭介面提供轉接環;4\POE為選配
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 介面相機圖

C/CS-Mount Camera Drawing



C-mount 鏡頭
C-mount lens

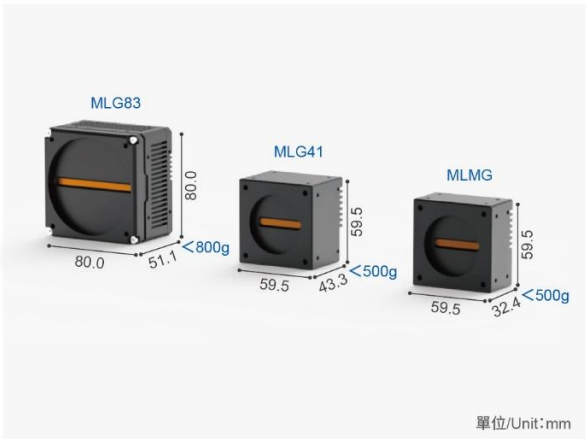


CS-mount 鏡頭
CS-mount lens

單位/Unit:mm

GigE 工業線陣相機
GigE Line Scan Camera

MLG 系列 | MLMG 系列
MLG Series | MLMG Series



行頻最高可達 27.5K，軟體自由設定，彩色線陣相機支援 RGB 三行真彩輸出
支援 Sensor 硬體 2 行 SUM，倍增亮度，降低對光源的要求
GigE 網口，最大傳輸距離 100 米
支援編碼器訊號的分頻與倍頻，與運動平台精確匹配
硬體 ISP 支援 Gamma、對比、鏡頭陰影矯正等
支援編碼器同步觸發、光電感測器與編碼器組合同步觸發等多種觸發模式

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.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	TDI TDI	行頻 Line frequency	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-ML41-GM	28.6mm	7um	4096x2	/	27.5k	0.003~5ms	Hunson	Global
HN-MLM21-GM	28.6mm	14x7um	2048x1	/	47.1k	0.003~5ms	Hunson	Global
HN-MLM24-GC	28.6mm	14x7um	2048x3	/	47.1k	0.003~5ms	Hunson	Global
HN-MLM41-GM	28.6mm	7um	4096x2	/	27.5k	0.003~5ms	Hunson	Global
HN-MLM44-GC	28.6mm	7um	4096x6	/	RG 8bit:27.5k、RGB 8bit:9.2k	0.003~5ms	Hunson	Global
HN-MLM44-GM	28.6mm	7um	4096x8	2~4	27.5k	0.003~5ms	Hunson	Global
HN-ML83B-GM*	57.344mm	7um	8192X4	4	8bit:14.993K、12bit:10K	0.003~50ms	Hunson	Global

註：1、*為新品；2、型號字尾：C：彩色、M：黑白
Note：1、* Indicates a new product；2、Model suffixes: C stands for color, M stands for mono.



10 GigE 工業面陣相機
10 GigE Area Scan Camera

MA-XG 系列 C-mount | MA-XG 系列 M58 mount
MA-XG Series C mount | MA-XG Series M58 mount



預留風扇接口，有效控制相機溫度
50 萬-6500 萬像素可選，最高幀率可達 1594.75FPS
比起 CameraLink 介面搭配擷取卡的方式成本大幅降低
最遠傳輸距離可達 100 米，工業現場佈線不再受約束，向下相容 GigE
採用標準 10 GigE 網路介面設計，超六類網路線即可實現穩定通訊
有效頻寬 1200MByte，是 GigE 的 10 倍，大幅縮短了影像傳輸時間及延遲
支援GigEVision、GenICam標準以及和GigE相機相同的SDK，縮短客戶開發週期

Reserve a fan port to effectively control the camera temperature.
0.5MP to 65MP with a maximum frequency of 1594.75FPS.
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 compatible with Gigabit Ethernet.
Using the standard 10 Gigabit network interface design, the super six network cable can achieve stable communication.
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.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA170G-XGC/M	1/1.7"	9.0um	0.5MP	816X624	1609.25fps	0.0008~838.8600ms	IMX426	Global
HN-MA280G-XGC/M	1.1"	9.0um	1.7MP	1600X1100	665.75fps	0.0011~1153.4325ms	IMX425	Global
HN-MA402G-XGC/M	2/3"	4.5um	2.8MP	1936X1464	409.25fps	0.0015~1572.8625ms	IMX421	Global
HN-MA51G-XGC/M	1"	5.5um	4MP	2048X2048	175.75fps	0.0026~1874.3270ms	Hunson	Global
HN-MA503G-XGC/M *	1/2"	2.5um	5MP	2592x2160	120.75fps	0.0038~498.0698ms	GMAX2505	Global
HN-MA507G-XGC/M *	2/3"	3.4um	5MP	2448x2048	163.75fps	0.0029~48653.9235ms	GMAX3405	Global
HN-MA903G-XGC/M *	2/3"	2.5um	9MP	4208x2160	120.75fps	0.0038~498.0698ms	GMAX2509	Global
HN-MA1205G-XGC/M *	1"	3.2um	12MP	4096x3072	90.5fps	0.0035~229.4ms	XGS12000	Global
HN-MA1207G-XGC/M *	1.1"	3.4um	12MP	4096x3072	90fps	0.0035~58720.2525ms	GMAX3412	Global
HN-MA1606G-XGC/M *	4/3"	3.5um	16MP	4096x4096	45.25fps	0.0053~88919.2395ms	Hunson	Global
HN-MA1803G-XGC/M *	1"	2.5um	18MP	4512x4096	63.5fps	0.0038~498.0698ms	GMAX2518	Global
HN-MA2500G-XGC/M	1.1"	2.5um	25MP	5120x5120	41.75fps	0.0046~14470.3ms	GMAX0505	Global
HN-MA2501G-XGC/M *	1.3"	2.7um	25MP	5120x5120	42fps	0.0053~88919.2ms	Hunson	Global
HN-MA4701-XGC/M	1.4"	2.315um	47MP	8240x5628	24.25fps	0.0072~5142.8520ms	IMX492	Rolling
HN-MA6500G-XGC/M *	29.9x22.4mm	3.2um	65MP	9344x7000	15.75fps	0.009~18874.359ms	GMAX3265	Global

註：1、*為新品；2、型號字尾：C：彩色、M：黑白
Note：1、* Indicates a new product；2、Model suffixes: C stands for color, M stands for mono.

10 GigE 工業線陣相機-普通系列

10 GigE Line Scan Camera-General Series

ML-XG 系列 | MLC-XG 系列

ML-XG Series | MLC-XG Series



支援平場校正功能,帶多曝光自動切換功能

支援 Gain\Offset 可編程設置

預留風扇介面, 有效控制相機溫度

最遠傳輸距離可達 100 公尺, 工業現場佈線不再受約束, 向下相容 GigE

採用標準 10 GigE 介面設計, 超六類網路線即可實現穩定通訊

比起 CameraLink 介面搭配擷取卡的方式成本大幅降低

有效頻寬 1200 MByte, 是 GigE 的 10 倍, 大大縮短了影像傳輸時間及延遲

支援 GigEVision, GenICam 標準以及和 GigE 相機相同的 SDK, 縮短客戶開發週期

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 compatible with Gigabit Ethernet.

Using the standard 10GigE interface/10Gigabit Ethernet interface design, the super six network cable 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.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	TDI TDI	行頻 Line frequency	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-ML83G-XGC	57.344mm	7um	8192x3	/	RGB 8bit:50K	0.004~50ms	Hunson	Global
HN-ML83G-XGM	57.344mm	7um	8192x2	2	8bit:106K、12bit:70K	0.004~50ms	Hunson	Global
HN-MLC83G-XGC	57.344mm	7um	8192x3	/	RGB 8bit:48K	0.004~50ms	Hunson	Global
HN-MLC83BG-XGC	57.344mm	7um	8192x4	4	8bit:109.89K、12bit:87.7K	0.004~50ms	Hunson	Global
HN-MLC83DG-XGC	57.344mm	7um	8192x4	4	8bit:150K、12bit:87.7K	0.004~50ms	Hunson	Global
HN-ML163G-XGC	57.344mm	3.5um	16384x2	/	72K	0.004~50ms	Hunson	Global
HN-ML163G-XGM	57.344mm	3.5um	16384x2	2	8bit:72K、12bit:48K	0.004~50ms	Hunson	Global
HN-ML164G-XGC	81.92mm	5um	16384x6	2	25K	0.004~5ms	Hunson	Global
HN-ML164G-XGM	81.92mm	5um	16384x1	/	75K	0.004~5ms	Hunson	Global

註:1\型號字尾:C:彩色\M:黑白

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



10 GigE 工業線陣相機-256級TDI系列

10 GigE Line Scan Camera-256 TDI Series

ML-XG系列 256 TDI

ML-XG Series 256 TDI



5um 像元, 10GigE 網路埠

256 級 TDI,減少光源需求

Sensor 行頻高達 250k/200k (Sensor 輸出像素寬度 10/12bits)

支援 256 行的面陣對焦模式

支援 Gain\Offset 可編程設置,支援平場校正功能

支援編碼器同步觸發、光電感測器與編碼器組合多種觸發模式

5um pixel, 10 GigE interface.

26-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.

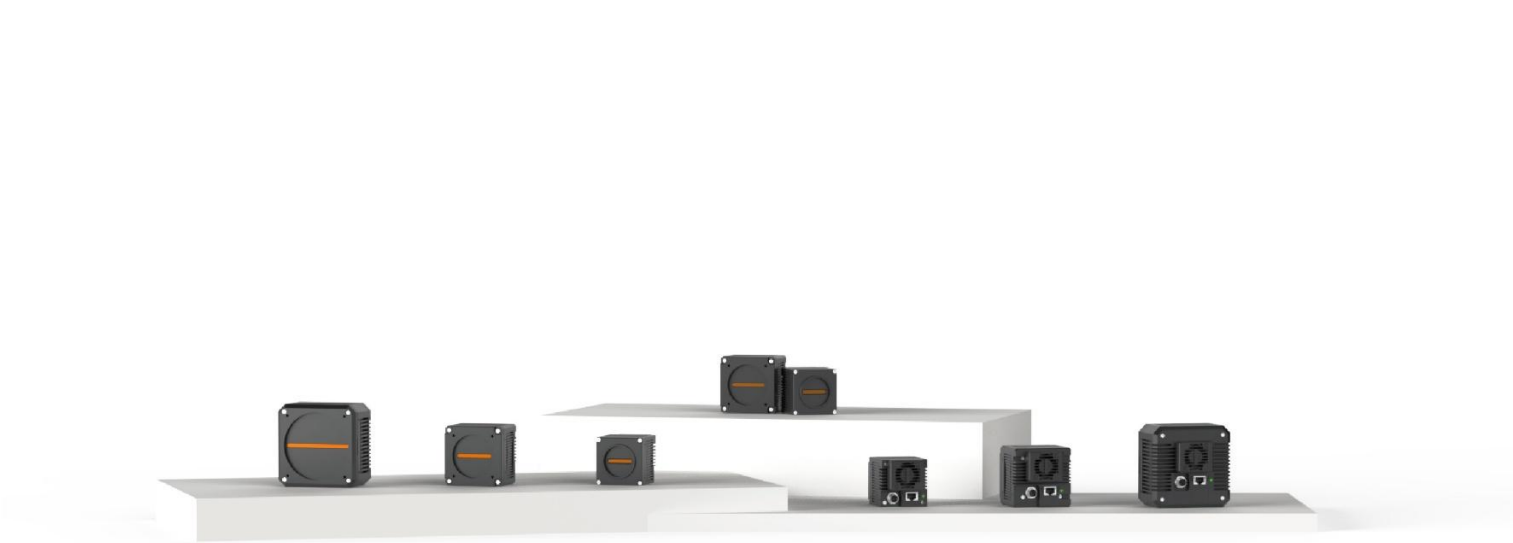
產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	TDI TDI	行頻 Line frequency	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-ML42G-XGM	21.177mm	5um	4096x256	256	8bit:250K、12bit:200K	0.004~50ms	Hunson	Global
HN-ML82G-XGM	41.673mm	5um	8192x256	256	8bit:145K、12bit:96K	0.004~50ms	Hunson	Global
HN-ML162G-XGM	82.666mm	5um	16384x256	256	8bit:72K、12bit:48K	0.004~50ms	Hunson	Global

註:1\型號字尾:C:彩色\M:黑白

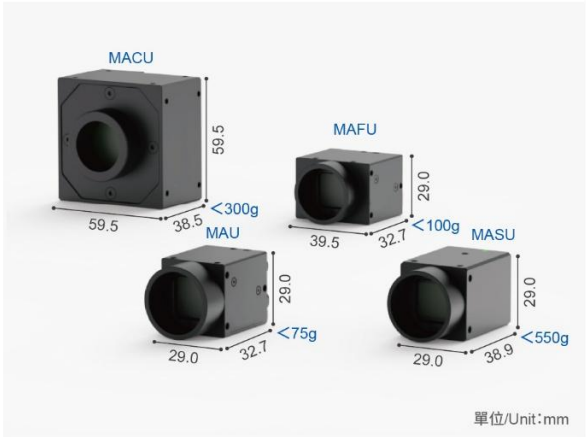
Note:1\Model suffixes: C stands for color, M stands for mono.



USB3.0 工業相機

USB3.0 Area Scan Camera

MAU系列 | MAFU 系列 | MACU 系列 | MASU 系列
MAU Series | MAFU Series | MACU Series | MASU Series



產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA33G-UC/M	1/5.6"	4um	0.3MP	640x480	791fps	0.0025~20.4ms	SmartSens	Global
HN-MA34G-UC/M	1/4"	4.8um	0.3MP	640x480	454fps	0.0045~584.4ms	PYTHON	Global
HN-MA40G-UC/M	1/2.9"	6.9um	0.4MP	720x540	523.75fps	0.0032~1955.4ms	IMX287	Global
HN-MA130-UM	1/2"	5.2um	1.3MP	1280x1024	30fps	0.0283~262.3ms	MT9M001	Rolling
HN-MA130G-UM	1/3"	3.75um	1.2MP	1280x1024	61fps	0.0167~32ms	AR0135	Global
HN-MA131G-UC	1/3"	3.75um	1.2MP	1280x960	72.25fps	0.0164~31.4ms	AR0134	Global
HN-MA133G-UC/M	1/2.7"	4um	1.3MP	1280x1024	241.5fps	0.004~32.4ms	SC130GS	Global
HN-MA134G-UC/M	1/2"	4.8um	1.3MP	1280x1024	212fps	0.0045~584.4ms	PYTHON	Global
HN-MA200G-UC/M	1/1.8"	4.5um	2MP	1600x1200	60fps	0.0157~95.8ms	EV76C570	Global
HN-MA202G-UC/M	2/3"	4.8um	2MP	1920x1200	165.5fps	0.0039~256.1ms	PYTHON2000	Global
HN-MA230G-UC/M	1/1.2"	5.86um	2.3MP	1920x1200	165.25fps	0.0049~10188.6ms	IMX174	Global
HN-MA231G-UC/M	1/1.2"	5.86um	2.3MP	1920x1200	40fps	0.0201~42112.8ms	IMX249	Global
HN-MA300G-UC/M	1/1.8"	3.45um	3MP	2048x1536	55.75fps	0.0114~11966.6ms	IMX265	Global
HN-MA403G-UM *	1/1.3"	4.2um	4MP	1744x2336	51.5fps	0.012~790ms	SC410GS	Global
HN-MA500-UC/M	1/2.5"	2.2um	5MP	2592x1944	15.25fps	0.0336~522.2ms	C:MT9P006 M:MT9P031	Rolling
HN-MA501G-UC/M	2/3"	3.45um	5MP	2448x2048	40.5fps	0.0118~12377.1ms	IMX264	Global
HN-MA502-UC/M	1/2.5"	2.2um	5MP	2592x1944	59fps	0.0084~553.4ms	AR0521	Rolling
HN-MA505G-UC/M	2/3"	3.2um	5MP	2592x2048	42.75fps	0.0113~740.3ms	XGS5000	Global
HN-MA630-UC/M	1/1.8"	2.4um	6.3MP	3088x2064	59.5fps	0.008~10284.8ms	IMX178	Rolling
HN-MA800-UC/M	1/1.8"	2um	8MP	3840x2160	45.75fps	0.02~655.4ms	Hunson	Rolling
HN-MA1000-UC/M	1/2.3"	1.67um	10MP	3664x2748	8fps	0.0545~951.7ms	MT9J003	Rolling
HN-MA1201-UC/M	1/1.7"	1.85um	12MP	4000x3000	32fps	0.0102~2665.1ms	IMX226	Rolling

相機自備可程式 IO，支援外觸發閃光燈同步拍照
支援 8bit 到12bit raw 資料輸出
30 萬至 2000 萬像素 CMOS，多款全域快門相機可選
與 GigE 相機的 SDK 完全相容，可無縫替換
一台電腦接多台相機可穩定運作，長時間下不斷線、不丟幀
支援 PC Linux 系統和 ARM Linux 系統，可整合於嵌入式設備中
相容 Vision 協議，無縫相容 Halcon、VisionPro、Labview 等視覺軟體

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.

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA1600-UC/M	1/2.3"	1.34um	16MP	4608x3456	12fps	0.0233~7741.4ms	IMX206	Rolling
HN-MA2000-UC/M	1"	2.4um	20MP	5488x3672	19.5fps	0.0138~3608.7ms	IMX183	Rolling
HN-MA404FG-UC/M	1"	5.5um	4MP	2048x2048	88fps	0.0054~704.5ms	Hunson	Global
HN-MA890FG-UC/M	1"	3.45um	8.9MP	4096x2160	32fps	0.0141~29546.9ms	C:IMX344 M:IMX267	Global
HN-MA1200F-UC/M	1"	3.1um	12MP	4080x3072	30.75fps	0.0201~2635.2ms	RJ5DY1BA0LT	Rolling
HN-MA1200FG-UC/M	1.1"	3.45um	12MP	4096x3000	23.5fps	0.0141~29546.9ms	IMX304	Global
HN-MA1205FG-UC/M	1"	3.2um	12MP	4096x3072	28.5fps	0.0113~740.3ms	XGS12000	Global
HN-MA404C-UC/M	1.1"	5.94um	4MP	2048x2048	59.5fps	C:0.0081~136251.3ms M:0.0081~500ms	Hunson	Rolling
HN-MA1206CG-UC/M	1.1"	3.5um	12MP	4112x3088	30fps	0.0107~178956.96ms	Hunson	Global
HN-MA1606CG-UC/M	4/3"	3.5um	16MP	4112x4112	22.75fps	0.017~178956.96ms	Hunson	Global
HN-MA2500CG-UC/M	1.1"	2.5um	25MP	5120x5120	14fps	0.0139~908.3ms	GMAX0505	Global
HN-MA240SG-UC/M	1/1.7"	4um	2.4MP	2048X1200	158.5fps	0.0041~68954.3520ms	GMAX4002	Global
HN-MA502S-UM	1/2.5"	2.2um	5MP	2592x1944	59fps	0.0084~553.4ms	AR0522	Rolling
HN-MA507SG-UC/M	2/3"	3.4um	5MP	2448x2048	75fps	0.015~10000ms	GMAX3405	Global
HN-MA840S-UC/M	1/1.8"	2.0um	8.4MP	3840x2160	45.75fps	0.0097~10139.6ms	IMX678	Rolling

註：1、*為新品；2、型號後綴：C：彩色、M：黑白；3、鏡頭介面提供轉接環；4、MASU系列需接外部供電
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 MASU series requires external power supply.

雙 USB3.0 接口工業相機

Double USB3.0 Interface Industrial Camera

MA2U系列
MA2U Series



相機自備可程式 IO，支援雙路 USB3.0 輸出，速度是原來的 2 倍
支援外觸發閃光燈同步拍照
支援 8bit raw 資料輸出
與 GIGe 相機的 SDK 完全相容，可無縫替換
一台電腦多台相機可穩定運作，長時間下不斷線、不丟幀
支援 PC Linux 系統和 ARM Linux 系統，可整合於嵌入式設備中

Camera comes with programmable IO, support dual USB3.0 output, the speed is 2 times faster than the original.
Support external trigger strobe synchronous photography.
Support 8bit raw data output.
Fully compatible with the SDK of GigE camera, can be replaced seamlessly.
Multiple cameras on one computer can work stably without dropping or losing frames for a long time.
Support PC Linux system and ARM Linux system, can be integrated into embed-ded devices.

產品選型表

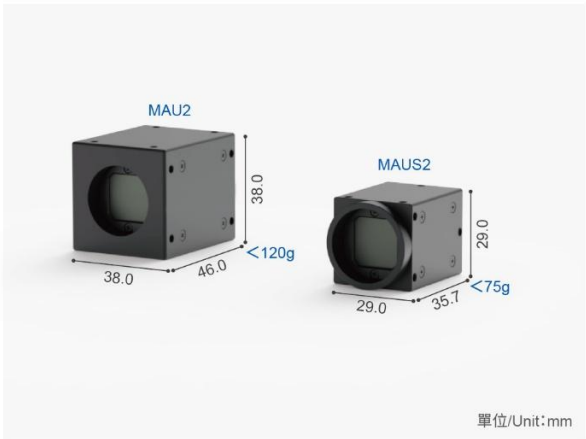
Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA1606CG-2UC/M*	4/3"	3.5um	16MP	4096x4096	45fps	0.0054~90099.9ms	Hunson	Global
HN-MA2500CG-2UM	1.1"	2.5um	25MP	5120x5120	28.25fps	0.0068~812.5ms	GMAX0505	Global

註：1、*為新品；2、型號字尾：C：彩色、M：黑白；3、此系列需接外部供電
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工業相機
USB2.0 Industrial Camera

MAUS2系列 | MAU2 系列
MAUS2 Series | MAU2 Series



支援外觸發，閃光燈同步
相機內可寫入自訂數據
30 萬至 1000 萬像素 CMOS、CCD
支援 8bit 到12bit raw 資料輸出
帶硬體幀緩存，支援 32 台以上相機同時工作
USB2.0 接口，無需再外接電源，即插即用
支援 Windows、Linux 和 ARM Linux 、安卓系統

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.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA31G-US2C/M	1/3"	6um	0.3MP	752x480	108fps	0.0176~270.7ms	MT9V024	Global
HN-MA130G-US2M	1/3"	3.75um	1.2MP	1280x960	39fps	0.019~18.2ms	AR0135	Global
HN-MA130-US2M	1/2"	5.2um	1.3MP	1280x1024	30fps	0.032~524.6ms	MT9M001	Rolling
HN-MA130-US2C	1/3"	3.75um	1.2MP	1280x960	39fps	0.0325~62.4ms	AR0130	Rolling
HN-MA131G-US2C	1/3"	3.75um	1.2MP	1280x960	39fps	0.022~21.1ms	AR0134	Global
HN-MA402-US2C	1/1.8"	2.9um	4MP	2688x1520	9fps	0.023~1507.3ms	SC450A1	Rolling
HN-MA500-US2C/M	1/2.5"	2.2um	5MP	2592x1944	9fps	0.0582~905.1ms	C:MT9P006 M:MT9P031	Rolling
HN-MA502-US2C/M	1/2.5"	2.2um	5MP	2592x1944	8fps	0.0238~1556.5ms	AR0522	Rolling
HN-MA1000-US2C	1/2.3"	1.67um	10MP	3664x2748	5fps	0.064~1407ms	MT9J003	Rolling
HN-MA31G-U2C/M	1/3"	6um	0.3MP	752x480	108fps	0.0176~270.7ms	MT9V024	Global
HN-MA130-U2M	1/2"	5.2um	1.3MP	1280x1024	30fps	0.032~524.6ms	MT9M001	Rolling
HN-MA130G-U2M	1/3"	3.75um	1.2MP	1280x960	39fps	0.019~18.2ms	AR0135	Global
HN-MA130-U2C	1/3"	3.75um	1.2MP	1280x960	39fps	0.0325~62.4ms	AR0130	Rolling
HN-MA500-U2C/M	1/2.5"	2.2um	5MP	2592x1944	9fps	0.0582~905.1ms	C:MT9P006 M:MT9P031	Rolling
HN-MA1000-U2C	1/2.3"	1.67um	10MP	3664x2748	5fps	0.064~1407ms	MT9J003	Rolling

註：1、型號字尾：C：彩色、M：黑白；2、鏡頭介面提供轉接環
Note：1、Model suffixes: C stands for color, M stands for mono；2、Lens adapters are available for the lens interface.

CoaXPRESS高速工業面陣相機
CoaXPRESS Area Scan Camera

MA-CXP系列 C口 | MA-CXP系列 M58口
MA-CXP Series C mount | MA-CXP Series M58 mount



CXP-12 接口，最大傳輸資料有效頻寬 4850Mbyte，是 10 GigE 網路的 4 倍，USB3.0 的12 倍以上
優良的 SDK 設計，使用者無需直接操作 CXP 採集卡，省去繁瑣的配置流程，像使用GigE 工業相機一樣簡單
採用 HD-BNC 實現標準化的工業級線連接
依應用環境可選裝風冷散熱器或鰭片散熱器
支援 1、2、4 路靈活組合
CoaxPress 2.1 標準協議，支援同軸電纜訊號觸發和電源供電

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

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA250G-CXP-C/M	2/3"	4.5um	2.5MP	2048x1216	1884fps	0.0010~65.5350ms	GSPRINT4502	Global
HN-MA1000G-CXP-C/M	22.9mm	4.5um	10MP	4608x2176	465.25fps	0.001~65.535ms	GSPRINT4510	Global
HN-MA2100G-CXP-C/M	23.04×18.43mm	4.5um	21MP	5120×4096	226fps	0.001~65.535ms	GSPRINT4521	Global
HN-MA6500G-CXP-C/M	29.9×22.4mm	3.2um	65MP	9344×7000	70.25fps	0.0020~67108.8640ms	Hunson	Global
HN-MA15000G-CXP-C/M	53.0×29.4mm	3.2um	150MP	16556× 9200	16fps	0.015~100ms	GMAX32152	Global
HN-MA25000-CXP-M	64.84mm	2.81um	245MP	19200×12800	12.41fps	0.10953~60000ms	Hunson	Rolling

註：1、*為新品；2、型號字尾：C：彩色、M：黑白
Note：1、* Indicates a new product；2、Model suffixes: C stands for color, M stands for mono.

CoaXPress 高速工業線陣相機

CoaXPress Line Scan Camera

ML-CXP系列
ML-CXP Series



16K 分辨率，RGB 真彩支援 2TDI 模式，最大行頻 125KHz
CXP-12 接口，最大傳輸資料有效頻寬 4850Mbyte，是10GigE網路的 4 倍，USB3.0 的12 倍以上
優良的 SDK 設計，使用者無需直接操作 CXP 採集卡，省去繁瑣的配置流程，像使用GigE 工業相機一樣簡單
CoaxPress 2.1 標準協議，支援同軸電纜訊號觸發和電源供電
採用 HD-BNC 實現標準化的工業級線連接
依應用環境可選裝風冷散熱器或鰭片散熱器
支援 1、2、4 路靈活組合

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.

產品選型表

Product Selection Table

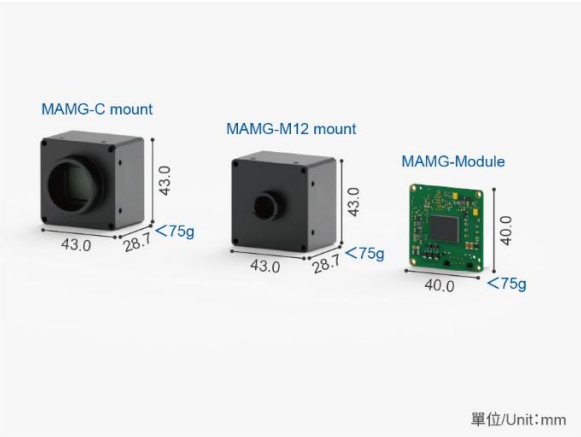
產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	解析度 Resolution	行頻 Line frequency	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-ML82-CXP-M*	41.673x1.281mm	5um	8192x256	287K	0.003~50ms	Hunson	Global
HN-ML90-CXP-M*	45.36x1.28mm	5um	9072x(256+32)	529K	0.0015~75ms	Hunson	Global
HN-ML162-CXP-M*	82.666mm	5um	16384x256	250K	0.004~50ms	Hunson	Global
HN-ML164-CXP-C	81.92mm	5um	16384×6	40K	0.002~50ms	Hunson	Global
HN-ML164B-CXP-M	81.92mm	5um	16384x4	56K	0.002~50ms	Hunson	Global
HN-ML164-CXP-M	81.92mm	5um	16384x1	200K	0.002~50ms	Hunson	Global

註：1、*為新品；2、型號字尾：C：彩色、M：黑白
Note：1、* Indicates a new product；2、Model suffixes: C stands for color, M stands for mono.

GigE 板級相機/模組

GigE Board Camera/Module

MAMG系列 整機C口、M12口 | MAMG系列 單板模組
MAMG Series camera C mount、M12 mount | MAMG Series camera Single Board Module



單板設計，體積小巧，超薄尺寸
嵌入式系統整合更方便，整合度更高
支援 8bit 和 12bit 無損格式輸出
可提供多種選擇：單板 / C 介面 / M12 接口
相機自備可程式 IO，支援外觸發閃光燈同步拍照
支援 PC Linux 系統和 ARM Linux 系統，可整合於嵌入式設備中
相容 Vision 協議，無縫相容 Halcon、VisionPro、Labview 等視覺軟體

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.

產品選型表

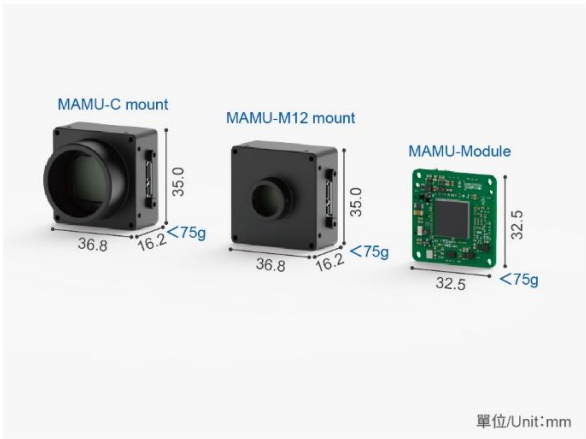
Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MAM134G-C/M	1/2"	4.8um	1.3MP	1280x1024	91.5fps	0.008~1048.6ms	PYTHON	Global
HN-MAM506-C/M	1/2.7"	2.0um	5MP	2608x1958	24fps	0.021~1376.2ms	Hunson	Rolling
HN-MAM1201-C/M	1/1.7"	1.85um	12MP	4000X3000	9.75fps	C:0.031~4063.2ms M:0.001~1310.7ms	IMX226	Rolling
HN-MAM1202-C/M	1/2"	1.6um	12MP	4000X3000	9.75fps	0.034~9792ms	AR1202	Rolling
HN-MAM2000-C/M	1"	2.4um	20MP	5488X3672	6fps	0.044~11534.3ms	IMX183	Rolling

附註：型號後綴：C：彩色、M：黑白
Note：2、Model suffixes: C stands for color, M stands for mono.

USB3.0板級相機/模組
USB3.0 Area Scan Camera

MAMU系列 整機C口、M12口 | MAMU系列 單板模組
MAMU Series camera C mount、M12 mount | MAMU Series camera Single Board Module



單板設計，體積小巧，超薄尺寸
嵌入式系統整合更方便，整合度更高
支援 8bit 到12bit raw 資料輸出
可提供多種選擇: 單板 / C介面 / M12 接口
相機自備可程式 IO，支援外觸發閃光燈同步拍照
支援 PC Linux 系統和 ARM Linux 系統，可整合於嵌入式裝置中相容 Vision 協議，無縫相容 Halcon、VisionPro、Labview 等視覺軟體

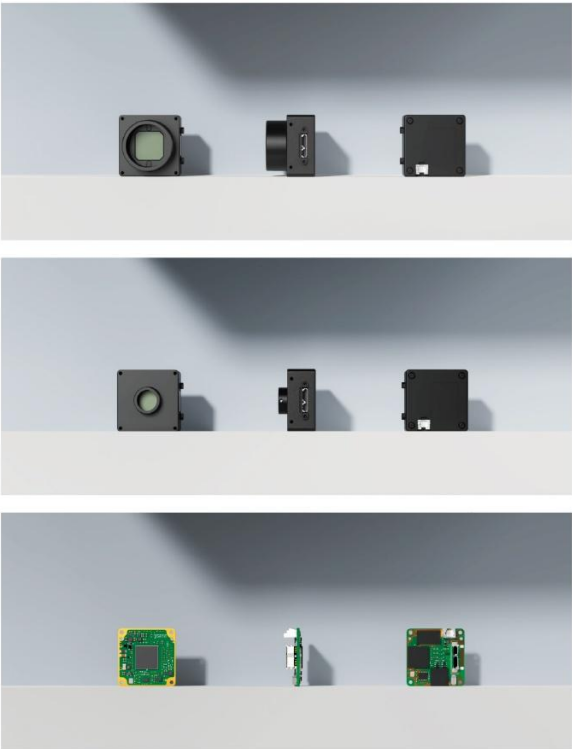
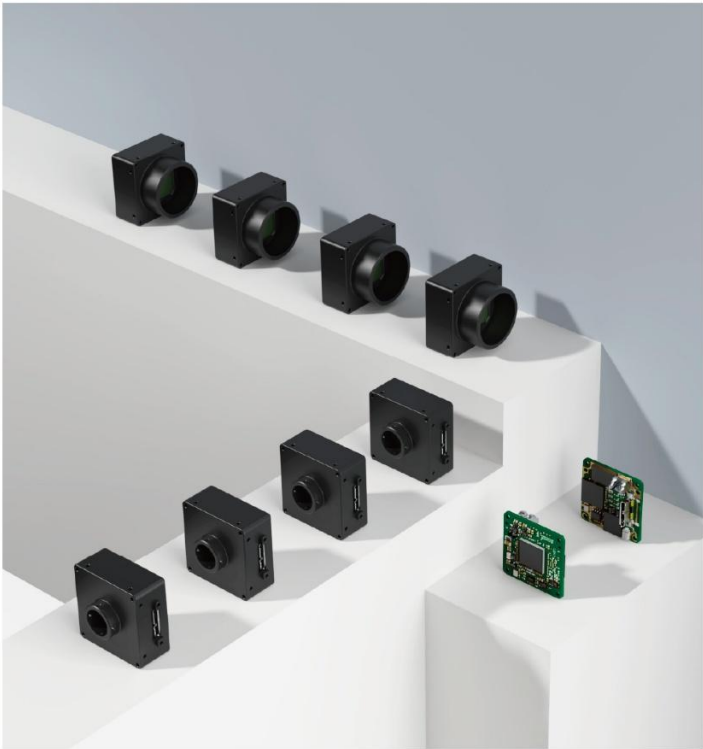
Single board design, small size, ultra-thin size.
Embedded system integration is more convenient and integrated.
Supports 8bit and 12bit raw data outputs.
Multiple options are available: Single board /C interface /M12 interface.
The camera has its own programmable IO, which supports external trigger 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.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MAM33G-UC/UM	1/5.6"	4um	0.3MP	640x480	725fps	0.0027~22.3ms	Hunson	Global
HN-MAM133G-UC/UM	1/2.7"	4um	1.3MP	1280x1024	221.25fps	0.0043~35.2ms	Hunson	Global
HN-MAM134G-UC/UM	1/2"	4.8um	1.3MP	1280x1024	202.25fps	0.0045~584.4ms	Hunson	Global

附註：型號後綴：C：彩色、M：黑白
Note：2、Model suffixes: C stands for color, M stands for mono.



雙目相機/模組
Binocular Camera/Module

MSU系列 | MGE系列
MSU Series | MGE Series

FPC 軟排線長度可自由更換，基準可彈性調整
支援無損灰階和 RAW 資料格式輸出，非 YUV 格式
Sensor 板尺寸可依客戶要求客製化，搭配不同結構需求
支援連續軟觸發、硬觸發工作模式，各模式下雙眼影像均能自動同步，同步誤差在微秒級別
可選 USB3.0、GigE 傳輸接口，其他接口可自訂
提供專用 SDK 和驅動（非UVC），支援 Windows、Linux、ARM Linux 和蘋果 Mac OS和
金品單相機產品 SDK 完全相容
支援 Halcon、VisionPro、OpenCV 等視覺軟體
工作溫度可支援 -30~60 度，可客製化 IP67 防護外殼
模組預留 2 路 RS232 介面、1 路 GPIO、1 路閃光燈輸出、1 路硬觸發輸入，接受客製化

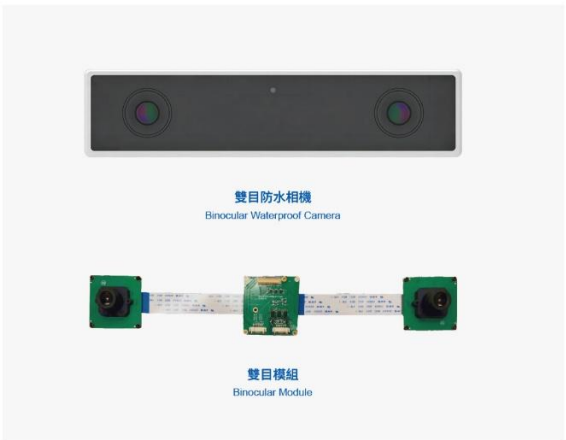
FPC flexible cable length can be freely changed, and the baseline can be flexibly adjusted.
Support lossless grayscale and raw data format output, non YUV format.
Sensor board size can be customized according to customer requirements to match different structural requirements.
It supports continuous 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 Hunson 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 inputcustom accepted.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MSU33G-C2-T/M2-T	1/5.6"	4.0um	0.3MP	640×480	580fps	0.00124~20.7ms	SMARTSENS	Global
HN-MSU34G-C2-T/M2-T	1/4"	4.8um	0.3MP	640×480	380fps	0.0040~524.3ms	PYTHON	Global
HN-MSU133G-C2-T/M2-T	1/2.7"	4.0um	1.3MP	1280×1024	130fps	0.00194~31ms	SMARTSENS	Global
HN-MSU134G-C2-T/M2-T	1/2"	4.8um	1.3MP	1280×1024	123fps	0.0076~1001.8ms	PYTHON	Global
HN-MGE34G-C2-T/M2-T	1/4"	4.8um	0.3MP	640 ×480	190fps	0.0040~524.3ms	PYTHON	Global
HN-MGE131G-C2-T	1/3"	3.75um	1.22MP	1280×960	42fps	0.014~53ms	AR0134	Global
HN-MGE134G-C2-T/M2-T	1/2"	4.8um	1.3MP	1280×1024	45fps	0.008~1024ms	PYTHON	Global

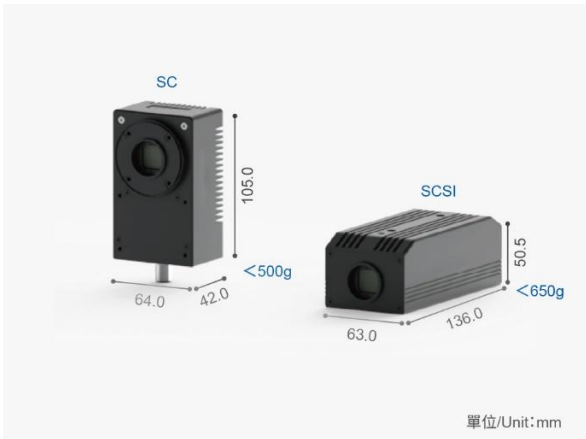
附註：型號後綴：C：彩色、M：黑白
Note：2、Model suffixes: C stands for color, M stands for mono.



X86系列智慧工業相機

X86 Smart Camera

SC 系列 | SCSI 系列
SC Series | SCSI Series



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

顯示 HDMI×1支援 1920×1080 解析度、乙太網路 1000M×1、支援 GigE Vision 相機
整合光源控制器,可選配 LED 照明組件,支援頻閃同步功能
SC :支援 USB2.0×1 、USB3.0×1 、支援觸發x1、閃光燈 x1、支援 RS232 x1
M12 12 芯螺紋航空接頭,支援 24V/2A 電源輸入
1 路輸入,2 路輸出介面可以設定輸出延時,無需在程式中處理
支援 Windows 10 64bit、Ubuntu16.04 64bit 系統
內建USB2.0介面一路,方便拆裝,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.
SC: Supports USB2.0×1, USB3.0×1, 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.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA31G-SC-C/M	1/3"	6um	0.3MP	752X480	107fps	0.0652~59.2ms	MT9V024	Global
HN-MA33G-SC-C/M	1/5.6"	4um	0.3MP	640X480	790fps	0.00124~20.7ms	SmartSens	Global
HN-MA34G-SC-C/M	1/4"	4.8um	0.3MP	640X480	402fps	0.0045~584.4ms	Hunson	Global
HN-MA130-SC-M	1/2"	5.2um	1.3MP	1280X1024	30fps	0.028~262ms	MT9M001	Rolling
HN-MA130G-SC-M	1/3"	3.75um	1.2MP	1280X960	60fps	0.016~30ms	AR0135	Global
HN-MA131G-SC-C	1/3"	3.75um	1.2MP	1280X960	72fps	0.016~30ms	AR0134	Global
HN-MA133G-SC-C/M	1/2.7"	4um	1.3MP	1280X1024	245fps	0.00194~31ms	SC130GS	Global
HN-MA134G-SC-C/M	1/2"	4.8um	1.3MP	1280X1024	211fps	0.0045~584ms	PYTHON	Global
HN-MA200G-SC-C/M	1/1.8"	4.5um	2MP	1600X1200	60fps	0.015~91ms	EV76C570	Global
HN-MA202G-SC-C/M	2/3"	4.8um	2.3MP	1920×1200	165fps	Low:0.0039~256.1ms High:0.0039~5ms	PYTHON	Global
HN-MA231G-SC-C/M	1/1.2"	5.86um	2.3MP	1920×1200	40fps	0.0201~42112ms	IMX249	Global
HN-MA401G-SC-C/M	1"	5.5um	4MP	2048X2048	88fps	0.0054~704ms	Hunson	Global
HN-MA500-SC-C/M	1/2.5"	2.2um	5MP	2592X1944	15fps	0.0582~905.1ms	MT9P006	Rolling
HN-MA501G-SC-C/M	2/3"	3.45um	5MP	2448X2048	40fps	0.0133~13924ms	IMX264	Global

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA502-SC-C/M	1/2.5"	2.2um	5MP	2592X1944	59fps	0.0084~553.4ms	AR0522	Rolling
HN-MA630-SC-C/M	1/1.8"	2.4um	6.3MP	3088X2064	60fps	0.008~5000ms	IMX178	Rolling
HN-MA890G-SC-C/M	1"	3.45um	8.9MP	4096X2160	32fps	0.034~29546.9ms	IMX267	Global
HN-MA1000-SC-C/M	1/2.3"	1.67um	10MP	3664X2748	8fps	0.049~951ms	MT9J003	Rolling
HN-MA1201-SC-C/M	1/1.7"	1.85um	12MP	4000X3000	32fps	0.0102~2665.1ms	IMX226	Rolling
HN-MA1600-SC-C/M	1/2.3"	1.34um	16MP	4608X3456	12fps	0.0233~7741ms	IMX206	Rolling
HN-MA2000-SC-C/M	1"	2.4um	20MP	5488X3672	19.5fps	0.0138~3608ms	IMX183	Rolling
HN-MA890G-SCSI-C/M	1"	3.45um	8.9MP	4096X2160	32fps	0.0141~29546.9ms	IMX267	Global

附註:型號後綴:C:彩色、M:黑白
Note:2、Model suffixes: C stands for color, M stands for mono.

ARM系列智能工業相機

ARM Smart Camera

SC-ARM系列
SC-ARM Series



具備高效能的 AI 算力,支援複雜演算法
提供豐富的周邊接口,方便設備擴充和集成
內建高效能影像處理器,支援 3D 降噪、寬動態範圍等功能,提升影像質量
提供穩定、易用的 SDK 軟體開發包,支撐客戶產品快速量產
採用先進的低功耗架構,在提供高效能的同時,顯著降低能耗,適合長時間運行

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.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MA201-SC-ARM-C*	1/2.8"	2.9um	2MP	1920X1080	30fps	0.02~121.9ms	Hunson	Rolling

註:1、*為新品;2、型號字尾:C:彩色、M:黑白
Note:1、* Indicates a new product;2、Model suffixes: C stands for color, M stands for mono.

工業遠紅外線熱成像儀
Industrial Far Infrared Thermal Imager

MGF系列
MGF Series



採用高靈敏度與高解析度的紅外線探測器, 提供清晰的紅外線影像和測溫精度
採用 RJ45 GigE 乙太介面, 100 公尺遠距離穩定傳輸
支援 POE 供電, 即插即用的驅動設計, 簡單易用, 既具有網路通訊的穩定性又具有 USB 設備的使用方便性
熱靈敏度 $\leq 55\text{mK}$, 熱響應時間 $< 15\text{ms}$, 高達 50HZ 的幀率
支援多相機同時工作, 數量不限制, 可任意組網, 長時間工作不掉線、不丟幀
自帶硬體影像處理加速, 降低主機端 CPU 佔用率
採用 GigE Vision 1.2 視覺標準協議設計, 支援 Halcon、VisionPro 等軟體

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 Vision 1.2 vision standard protocol design, support Halcon, VisionPro and other software.

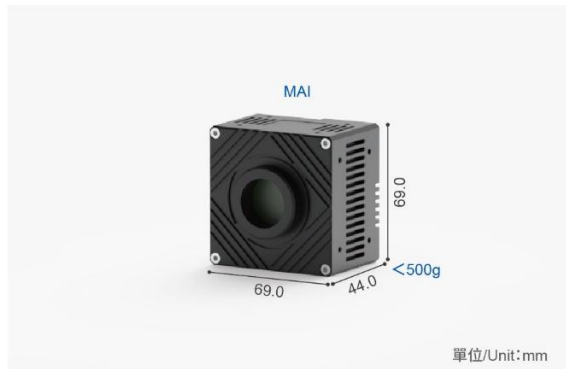
產品選型表

Product Selection Table

產品型號 Model	光學尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	熱靈敏度 Thermal sensitivity	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-MGF120	6.8mm×5.1mm	17um	0.12MP	400x300	50Hz	NETD $\leq 55\text{mK}$	1~6ms	GST417M	Automatic
HN-MGF480	1.0625"	17um	0.48MP	800x600	50Hz	NETD $\leq 55\text{mK}$	1~6ms	GST817MC	Automatic

短波紅外面陣工業相機
Short-wave Infrared Area Scan Camera

短波紅外線MAI系列
Short-wave Infrared MAI Series



InGaAs 偵測器, 響應波長 0.4-1.7um
黑電平校正, 影像均勻性好
GigE 網路介面, 相容 Vision 標準
專為低照度科學研究短波紅外線成像及顯微成像設計
免驅直接支援 Halcon、VisionPro 等軟體, 易於系統整合與開發

InGaAs detector, response wavelength 0.4-1.7um.
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.

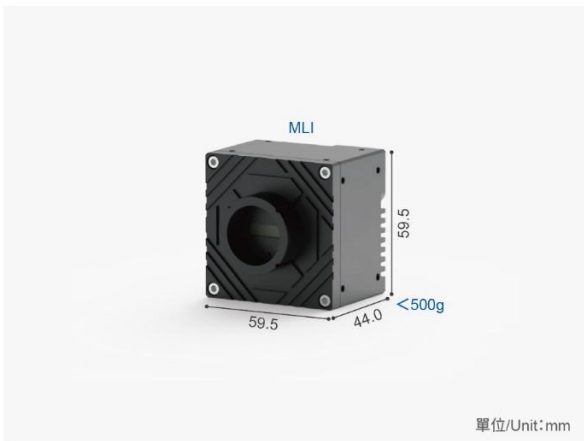
產品選型表

Product Selection Table

產品型號 Model	光學尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器類型 Sensor type	感測器型號 Sensor model	快門方式 Shutter
HN-MA31I	9.6×7.68mm	15um	0.3MP	640×512	350fps	0.007~2150.4ms	InGaAs	Hunson	Global
HN-MA30I	1/4"	5um	0.3MP	640×512	241fps	0.007~2150.4ms	InGaAs	IMX991	Global
HN-MA130I	1/2"	5um	1.3MP	1280×1024	72fps	0.0130~7987.2ms	InGaAs	IMX990	Global
HN-MA500I	1/1.4"	3.45um	5MP	2592×2056	24fps	0.007~2150.4ms	InGaAs	IMX992	Global

短波紅外線陣工業相機
Short-wave Infrared Line Scan Camera

短波紅外線MLI系列
Short-wave Infrared MLI Series



使用 InGaAs 晶片, 支援 900-1700nm 波段, 軟體自由設定
ML10I 行頻最高可達 18KHz; GEL20I 行頻最高可達 40KHz
支援編碼器訊號的分頻與倍頻, 與運動平台精確匹配
支援編碼器同步觸發、光電感測器與編碼器組合同步觸發等多種觸發模式
硬體支援水平方向的像素ROI和垂直方向任意行(不超過規定上限)的自動拼接功能

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).

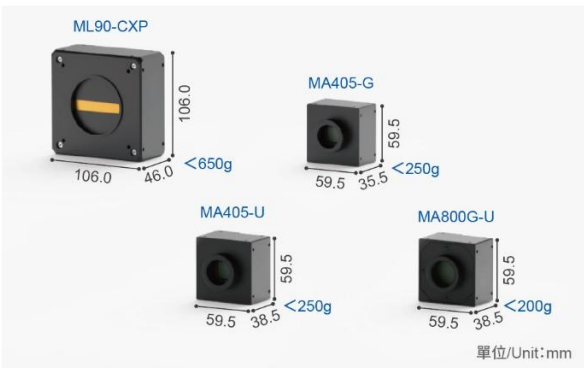
產品選型表

Product Selection Table

產品型號 Model	光學尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	像元填充率 Pixel fill ratio	行頻 Line frequency	曝光時間 Exposure time	感測器類型 Sensor type	感測器型號 Sensor model	快門方式 Shutter
HN-ML10I	12.8×0.0125mm	12.5um	1024x1	100%	18K	0.005~50ms	InGaAs	Hunson	Global
HN-ML20I	12.8×0.0125mm	12.5um	2048x1	100%	40K	0.005~50ms	InGaAs	Hunson	Global

紫外線工業相機
UV Industrial Camera

紫外系列
UV Series



相機內附可程式 IO
支援 8bit 到 12bit 資料輸出
支援紫外線波長拍攝, 全域快門, 支援外觸發閃光燈同步拍照
一台電腦多台相機可穩定運作, 長時間下不斷線、不丟幀
優良的 SDK 設計, 即插即用
支援 PC Linux 系統和 ARM Linux 系統, 可整合於嵌入式設備中
相容 Vision 協議, 無縫相容 Halcon、VisionPro、Labview 等視覺軟體

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.

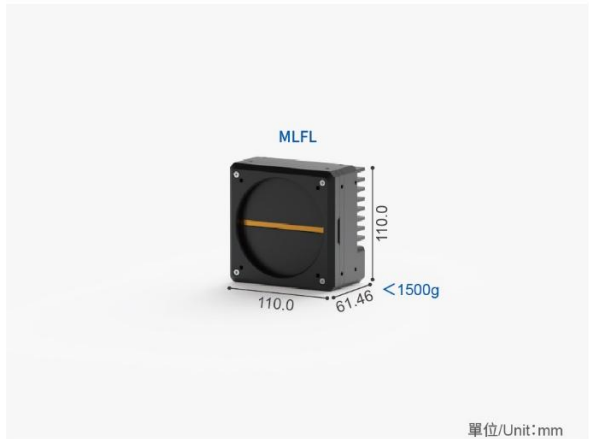
產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率/行頻 FPS/KHz	曝光時間 Exposure time	感測器類型 Sensor type	快門方式 Shutter
HN-MA405-G-UV	1.1"	5.94um	4MP	2048×2048	27fps	0.017~291923.5ms	CMOS	Rolling
HN-MA405-U-UV	1.1"	5.94um	4MP	2048×2048	59.5fps	0.0081~500ms	CMOS	Rolling
HN-MA800G-U-UV	2/3"	2.74um	8MP	2840×2840	44.75fps	0.0074~124727.5ms	CMOS	Global
HN-ML90-CXP-UV	45.36x1.28mm	5um	9K	9072x256	529KHz	0.0015~75ms	CMOS-TDI	Global

光口相機 Fiber Optic Camera

MLFL系列
MLFL Series



雙光口設計，每路傳輸頻寬達 16Gbps/66p，傳輸能力強
支援 3 路分時頻閃功能，滿足多種拍攝需求
採用標準 10GigE 網路接口，超六類網路線可穩定通訊，成本低
最遠傳輸距離 70 米，工業佈線不受約束
相容於多種標準和 SDK，可縮短客戶開發週期
全域曝光，有效像素 16384x1，成像品質高
具備多種影像處理功能，如 3D 降噪、ISP 加速等
電氣特性良好，航空頭供電 24V 1.5A，穩定可靠

Dual fiber optic ports design, with each port having a transmission bandwidth of 16Gbps/66p, featuring strong transmission capabilities.
Supports 3-channel time - sharing stroboscopic function to meet various shooting requirements.
Adopts a standard 10Gigabit Ethernet interface. Stable communication can be achieved with Cat6a Ethernet cables, and the cost is low.
The maximum transmission distance is 70 meters, and industrial wiring is not restricted.
Compatible with multiple standards and SDKs, which can shorten the customer development cycle.
Global shutter, with 16384x1 effective pixels, providing high - quality imaging.
Equipped with multiple image processing functions, such as 3D noise reduction and ISP acceleration.
Good electrical characteristics, powered by a 24V 1.5A aviation connector, ensuring stable and reliable operation.

產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	行頻 Line frequency	解析度 Resolution	傳輸頻寬 Transmission bandwidth	曝光時間 Exposure time	感測器型號 Sensor model	快門方式 Shutter
HN-ML164-FL-M*	81.92mm	5um	8bit:200K	16384x1	16Gbps/66p	0.004~5ms	Hunson	Global

註：1、*為新品；2、型號字尾：C：彩色、M：黑白
Note:1、* Indicates a new product;2、Model suffixes: C stands for color, M stands for mono.

同軸相機 Coaxial Camera

高解析度 1280*1080，清晰成像
120FPS 高幀率，流暢捕捉動態
小巧輕便，前端相機 <16g，易於攜帶
多種介面設計，相容性強
低功耗設計，前端相機 ≤1.2w
高靈敏度 1/4" 靶面，適應低光環境
堅固外殼，耐用性強
安裝簡單，採集盒介面方便拔插

High resolution of 1280*1080 for clear imaging.
High frame rate of 120FPS for smooth motion capture.
Compact and lightweight, front camera <16g, easy to carry.
Multiple interface designs for strong compatibility.
Low power consumption, front camera ≤1.2w.
High sensitivity with 1/4" sensor, suitable for low-light environments.
Durable housing for long-lasting use.
Easy installation with convenient plug-and-play interfaces for the collection box.

產品選型表

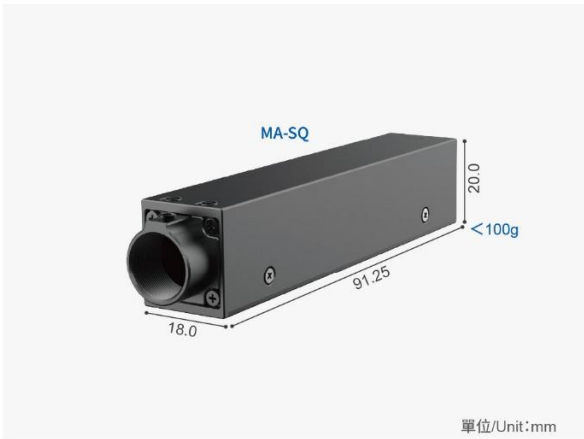
Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	電壓 Voltage	感測器型號 Sensor model	接口 Interface
MV-MS136GM/C*	1/4"	2.7um	1.3MP	1280x1080	70fps	12-24V	Hunson	SMA

註：1、*為新品；2、型號字尾：C：彩色、M：黑白
Note:1、* Indicates a new product;2、Model suffixes: C stands for color, M stands for mono.

微型工業相機 Micro Industrial Camera

MA-SQ系列
MA-SQ Series



支援 M12 鏡頭，外形截面尺寸 20×18mm
相機彩色/黑白可選，鏡頭可替換，視野範圍不受限制
GigE 接口，100 公尺遠距離穩定傳輸
支援多相機同時工作，數量不限制，可任意組網
自帶硬體影像處理加速，降低主機端 CPU 佔用率

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.

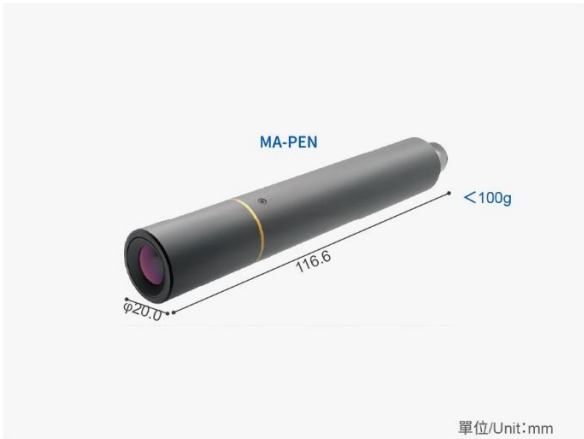
產品選型表

Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器類型 Sensor type	快門方式 Shutter
HN-MA133G-SQ-C/M	1/2.7"	4um	1.3MP	1280X1024	91fps	0.01~81.9ms	CMOS	Global

筆式Mini相機 Pen Mini Camera

MA-PEN系列
MA-PEN Series



支援 M12 鏡頭，外型尺寸 20x116.6mm
相機彩色/黑白可選，鏡頭可取代視野範圍不受限制
GigE 接口，100 公尺遠距離穩定傳輸
支援多相機同時工作，數量不限制，可任意組網
自帶硬體影像處理加速，降低主機端 CPU 佔用率
相容 Vision 標準，免驅直接支援 Halcon、VisionPro 等軟體

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.

產品選型表

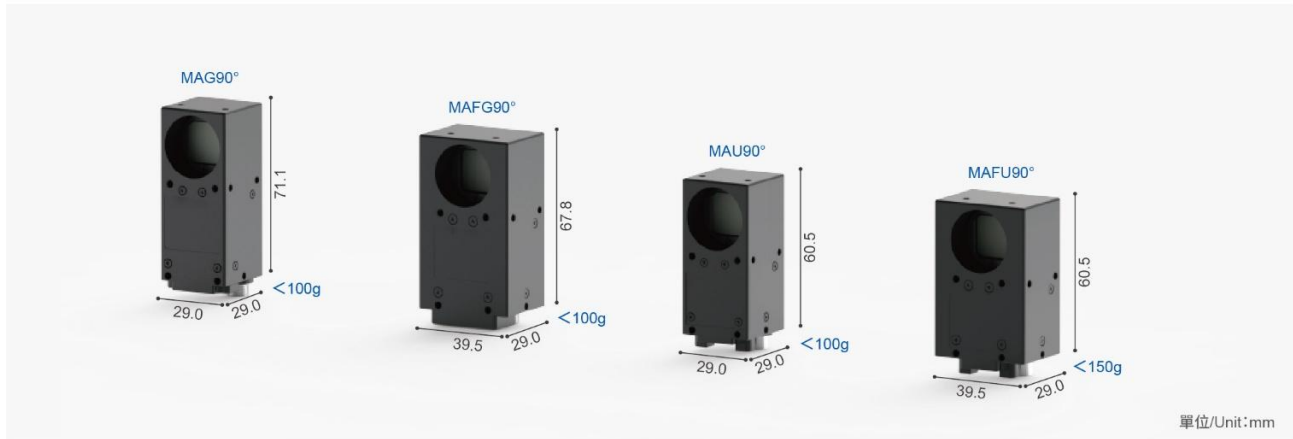
Product Selection Table

產品型號 Model	靶面尺寸 Sensor size	像元尺寸 Pixel size	像素 Pixels	解析度 Resolution	幀率 Frame rate	曝光時間 Exposure time	感測器類型 Sensor type	快門方式 Shutter
HN-MA232G-PEN-C/M	1/2.6"	3um	2.3MP	1920x1200	52fps	C:0.014~786.4ms M:0.014~917.5ms	CMOS	Global

90度直角工業相機

90° Industrial Camera

MAG 90° 系列 | MAFG 90° 系列 | MAU 90°系列 | MAFU 90°系列
MAG 90° Series | MAFG 90° Series | MAU 90° Series | MAFU 90° Series



金品在國內首家推出了 90 度轉角工業相機，多個標準機系列可透過臥裝方式大幅縮短 Sensor 面垂直向上的空間，垂直方向高度只有 29mm，解決了市面上設備安裝空間限制問題。90 度轉角版本相機的性能參數同標準機一致，只是結構上做了調整，相機軟體和 SDK 並無差別，在選擇產品型號時加上 -90 的後綴表示 90 度轉角相機。

目前支援 90 度轉角結構的相機分別是 HN-MAG、HN-MAFG、HN-MAU、HN-MAFU 系列。

Hunson is the first company to launch a 90 ° industrial camera. 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 HN-MAG,HN-MAFG, HN-MAU and HN-MAFU series.



光口擷取卡

Fiber Optic Capture Card



16Gbps 介面速率，高效率資料傳輸
2 路光纖 SFP+ 接口，靈活連接
相容於 Windows 7/10/11 和 Ubuntu
<30W 低功耗，被動散熱，適合長時間運行

16Gbps Interface Speed, Efficient Data Transmission.
2 Fiber Optic SFP+ Interfaces, Flexible Connectivity.
Compatible with Windows 7/10/11 and Ubuntu.
<30W Low Power Consumption, Passive Cooling, Suitable for Long-term Operation.

技術參數

Technical Parameters

產品型號 Model	HN-MCHF20
接口類型 Interface Type	光纖採集卡 Fiber Optic Capture Card
接口速率 Interface Rate	16Gbps
接口數量 Number of Interfaces	2路 2 channels
傳輸介質 Transmission Medium	光纖SFP+ Fiber - optic SFP+
傳輸距離 Transmission Distance	≤70m
總線類型 Bus Type	PCIe GEN3X8
幀緩存 Frame Buffer	2G byte
驅動支援 Driver Support	Windows 7/10/11/Ubuntu
電源供電 Power Supply	12V PCIe/12V ATX
功耗 Power Consumption	< 30W
散熱 Heat Dissipation	被動散熱 Passive Heat Dissipation
運行環境 Operating environment	工作溫濕度：0~50℃；20~80%（無凝結）、儲存溫濕度：-30~60℃；20~95%（無凝結） 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	144.9x56.1x22.65mm

客製化流程
Customization process



客製化服務 OEM/ODM
Customization(OEM/ODM)

各種接口的相機訂製

Customization of cameras with various interfaces

USB2.0、USB3.0、GigE、光纖、10 GigE、CXP、無線
USB2.0, USB3.0, GigE, Fiber Optic, 10 GigE, CXP, Wireless

各種附加功能的客製化

Customization of various additional functions

可程式IO、自動對焦、防水外殼、電池供電、
特殊的結構匹配、整合光源和其他控制電路
Programmable IO, auto focus, waterproof case, battery power supply, integrated light source and other control circuits



各種波段的相機定訂製

Customization of cameras of various wavebands

紫外、可見光、近紅外線、短波紅外線、遠紅外線
Ultraviolet, visible light, near-infrared, short-wave infrared, far-infrared

各種品牌規格的Sensor

Sensors of various brand specifications

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



官方網站



官方LINE@

www.hunson.com.tw

產品類型

product category



IP67 防水相機
IP67 Waterproof Camera



多目模組訂製
Multi-Camera Module Customization



手持式熱紅外線相機
Handheld Thermal Infrared Camera



雙目模組訂製
Binocular Module Customization



90°轉角相機
90° Industrial Camera



單目模組客製
Monocular Module Customization



更多客製化產品
more customized products

NEW PRODUCT SERIES

新品系列

水冷相機

Water-Cooled Camera

產品特點

Product Features

高效率散熱：快速帶走大量熱量，維持穩定工作溫度
畫質優良：控制溫度波動，提升影像清晰度、對比與訊號雜訊比
壽命長久：降低零件老化速度，減少故障，延長使用時間
低擾靜音：無風扇設計，無振動噪音，不干擾成像及週邊設備

Efficient Heat Dissipation: Rapidly removes a large amount of heat to maintain a stable operating temperature.
Superior Image Quality: Controls temperature fluctuations, enhancing image clarity, contrast ratio, and signal - to - noise ratio.
Long Lifespan: Reduces the aging rate of components, minimizes malfunctions, and extends the service life.
Low Vibration and Quiet Operation: Fan-less design ensures no vibration or noise, without interfering with imaging or surrounding equipment.

應用場景

Application scenarios

適用於天文觀測、生物醫療、半導體檢測、材料表面缺陷檢測、汽車零件檢測、工業檢測和科研等應用領域。

Suitable for applications in astronomical observation, biomedicine, semiconductor inspection, material surface defect inspection, automotive component inspection, industrial inspection, and scientific research.



自動對焦相機

Autofocus Camera

產品特點

Product Features

相機內部結構即時調整方式，外接任意定焦鏡頭皆可實現自動對焦
USB3.0介面即插即用
支持二次開發
支援Windows、Linux、MacOS系統

Real-time adjustment method for the internal structure of the camera enables autofocus with any external prime lens.
USB3.0 interface for plug-and-play.
Supports secondary development.
Compatible with Windows, Linux, and MacOS systems.

應用場景

Application scenarios

適用於電子製造、汽車製造、機械加工、醫藥生產、印刷包裝、玻璃製造等應用領域。

It is suitable for application fields such as electronics manufacturing, automotive manufacturing, mechanical processing, pharmaceutical production, printing and packaging, glass manufacturing, etc.



NEW PRODUCT SERIES

新品系列

焊接監控相機

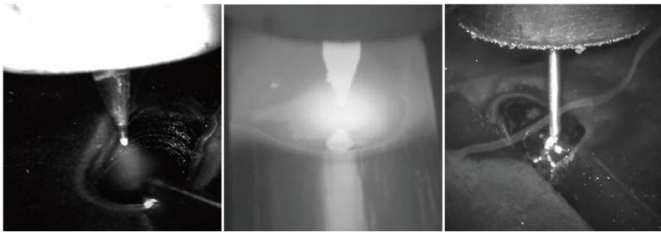
Welding Monitoring Camera

產品特點

Product Features

專為焊接過程監控與品質檢測設計
支援 CVBS (同軸) 與 HDMI 介面客製化
無需工控機即可直連顯示器即時成像
抗飛濺、耐高溫的工業防護設計

Designed specifically for welding process monitoring and quality inspection.
Supports customizable CVBS (coaxial) and HDMI interfaces.
Enables direct display connection for real-time imaging without industrial PC.
Industrial-grade protection against spatter and high-temperature environments.



應用場景

Application scenarios

適用於電子製造、汽車製造、機械加工、醫藥生產、印刷包裝、玻璃製造、航太製造等應用領域。

It is suitable to application fields such as electronics manufacturing, automotive manufacturing, mechanical processing, pharmaceutical production, printing and packaging, glass manufacturing, and aerospace manufacturing.

8K 256TDI 雙16G 光纖傳輸相機

8K 256TDI Dual 16G Fiber Optic Transmission Camera

產品特點

Product Features

雙 16G 光纖傳輸，頻寬 3 倍於 10GigE，穩定傳輸 75 米
性能比肩CXP，價格接近萬兆網相機，性價比卓越
8K+256TDI+440K 行頻，滿足高速高精成像需求
專用雙光纖擷取卡，顯著降低 CPU 負載，抗干擾強

Dual 16G fiber transmission with 3X bandwidth of 10GigE, stable 75m transmission.
Performance rivals CoaXPress, priced near 10GigE cameras, outstanding cost-performance.
8K+256TDI+440kHz line rate for high-speed precision imaging.
Dedicated dual-fiber frame grabber significantly reduces CPU load with strong anti-interference.

應用場景

Application scenarios

適用於螢幕檢測、PCB檢測、鋰電檢測、半導體檢測、科學研究、生物醫療等應用領域。

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

分離式迷你相機

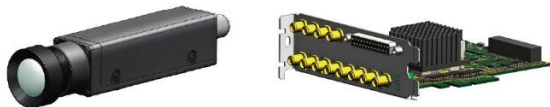
Split-Type Mini Camera

產品特點

Product Features

130 萬像素 (1280×1024) ,彩色/黑白 ,1/4" 感測器 , 70fps , 支援 12 路同步擷取
感光元件相機尺寸 14×14×45mm , 重量 ≤20g 不含鏡頭、線纜), 支援 M12 鏡頭接口
同軸線纜傳輸, 1 條線纜, 可支援觸發閃光訊號, 最遠距離支援 15 米
配套採集卡, 可支援 4、8、12 路

1.3MP (1280×1024), color/monochrome, 1/4" sensor, 70fps, supports 12-channel syn-
chronous capture.
Camera size 14×14×45mm, weight ≤20g excluding lens and cable, supports M12
lens interface.
Coaxial cable transmission, single cable supports trigger and flash signals,
maximum distance 15m.
It is equipped with a frame grabber and can support 4, 8, or 12 channels.



應用場景

Application scenarios

適用於LED 貼片產業、半導體焊接、空間狹小位置等應用領域。
Suitable for application fields such as LED SMT industry, semiconductor welding, and confined space inspection.

PCIe 接口相機

PCIe interface camera

產品特點

Product Features

8K 超清分辨率, 最大行頻 200Khz , 成像清晰, 細節豐富
傳輸頻寬可達 21Gbps
高動態, 強光弱光均細節清晰, 複雜環境穩定輸出支持
多種視訊輸出格式, 適配多系統與程式語言
專業影像處理引擎, 精準適配工業檢測嚴苛需求
小巧工業級設計, 採用 M72 鏡頭接口

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.



應用場景

Application scenarios

適用於缺陷檢測、半導體檢測、生物醫療、工業製造、物流倉儲、醫療影像、印刷品檢測等應用領域。
It is suitable for application fields such as defect detection, semiconductor inspection, biomedicine, industrial manufacturing, logistics and warehousing, medical
imaging, and printed matter inspection.

PRODUCT UPGRADE

產品升級

MA6500G-XGM

10GigE 網路黑白相機 6,500 萬像素, 全域曝光, 新升級支援 JPEG 影像壓縮傳輸, 幀率最高可達 31FPS , 影像壓縮品質因子可設定。
10 GigE mono camera with 65MP resolution, global shutter, and newly upgraded JPEG image compression support. Delivers up to 31 FPS with configurable
compression quality factors.

MA840S-UC

搭載索尼晶片的 MA840S-UC 相機重磅推出, 作為 MA630S-UC 的升級替代款, 以卓越性價比打造更具競爭力的視覺解決方案。
The MA840S-UC camera, equipped with a Sony sensor, is launched with great fanfare. As an upgraded replacement for the MA630S-UC, it offers a more
competitive vision solution with outstanding cost - effectiveness.

MA506-GC/M

MA506-GC/M 作為 MA502-GC/M 和 MA630-GC/M 的升級替代型號, 在保持性能的同時顯著提升性價比。
MA506-GC/M serves as the upgraded replacement for MA502-GC/M and MA630-GC/M, maintaining performance while significantly improving cost-effectiveness.

