SC SERIES MACHINE VISION SYSTEM SMART CAMERAS

All in One



Introdution

Machine vision is widely used in food and beverage, cosmetics, pharmaceutical, building materials and chemical/metal processing, electronic manufacturing, packaging, automobile manufacturing and other industries. Currently, it is mainly based on PC solution, and supplemented by embedded vision solution (intelligent camera, X86 open platform). For automated factories, solutions featured with simple operation and convenient maintenance of equipment have become the mainstream trend.

Smart camera is a highly integrated micro machine vision system, which integrates image acquisition, storage, processing and communication functions into one, thus forming a multifunctional, modular, high reliability, easy to operate machine vision solution. At the same time, due to the continuous iteration and update of DSP and FPGA technologies, its intelligence degree is also continuously improved, which can meet the needs of more and more complex machine vision applications.

Performance

Rich algorithms, 30+ vision tools



Automatically set brightness, focus and white balance



Vision Tools



Comprehensive Error-proofing Detection Algorithm

Inspection solutions such as presence/absence, U/D, Positioning, counting, etc. are often used for error-proof inspection. More visual inspection tools can provide the optimal solution for parts of different shapes on the production line, making visual application easier.

Multiple Accessories Available for Better Imaging

Red, blue, white and infrared light sources provide better imaging for products of different colors.

Visible light polarization mirror to filter glare interference.

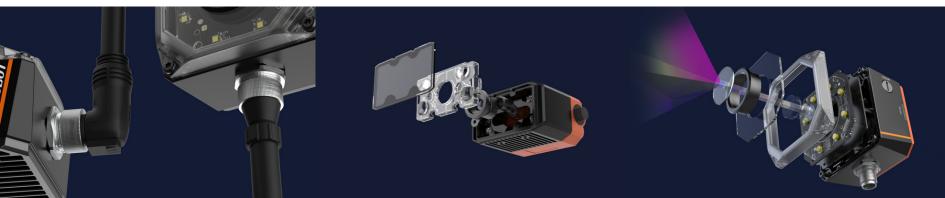
Vertical and coaxial wiring supported, to adapt to more field applications.

Easy-to-use Software

The SCMVS software equipped for SC series cameras debugging shares a well-designed interface and useful vison tools, requiring less professionalism for engineers. It can also quickly filter suitable tools in the visualized display interface, and help to deploy real-time applications on site.



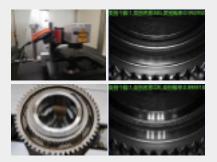
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			Total Cost: 112vs	Algorithm Costms		Baselmage Cost/Dims			



Automobile industry



Error prevention testing of parts



Weld inspection



Workpiece appearance defect detection

Medical industry



Test tube code reading/size measurement

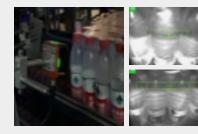


Detection of Covid-19 reagent results



Test tube color recognition

Packaging industry



Plastic packaging OCR



Liquid level detection



Pill box date character recognition

SC3000 Vision Sensors

Adopts built-in location and measurement algorithms to detect object's existence, location, dimension, etc.



Model	Sensor size	Pixel size	Resolution	Max. frame rate	Mono/Color	Interface	Power consumption	Power supply	Lens Mount	EFL	Lens cap	Light source
SC3016M	1/2.9″	3.45 μm	1408 × 1024	60 fps	Mono	Fast Ethernet	48 W@24 VDC	24 VDC	M12-Mount	6/12/15 mm	Transparent; Half/ full polarization is optional	White/Red/Blue
SC3016C	1/2.9″	3.45 μm	1408×1024	60 fps	Color	Fast Ethernet	48 W@24 VDC	24 VDC	M12-Mount	6/12/15 mm	Transparent; Half/ full polarization is optional	White/Red/Blue
SC3050M	1/1.7″	3.2 μm	2368 × 1670	30 fps	Mono	Fast Ethernet	48 W@24 VDC	24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White/Red/Blue

Available Vision Tools

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Existence

Pattern existence/Spot existence/Edge existence/Circle existence/Line existence

Recognition

OCR/Barcode recognition/Color comparison (For color model only)



Count

Pattern count/Spot count/Edge count

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Measurement

Brightness analysis/Contrast measurement/Greyscale size/Diameter measurement/Width measurement/Line angle/Line to line angle/Point to line measurement

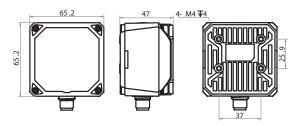


Integrated 30+ error-proof detection algorithms and AI recognition algorithms. With easy-to-use SCMVS, it can cover most equipment production quality inspection and other applications.

It can provide the best imaging effect with changable lens, light source, protective cover and other components.



Dimension



Accessories



Power&I/O cable	Standard	High flex	Bending
3m	MV-IDA-PE-M12A17pF- opensRJ45DB9-ST-3m	MV-IDA-PE-M12A17pF- opensRJ45DB9-HF-3m	MV-ACPE-M12A17F(back)-OPEN/ RJ45-FL-3m
5m	MV-IDA-PE-M12A17pF- opensRJ45DB9-ST-5m	-	-
10m	MV-IDA-PE-M12A17pF- opensRJ45DB9-ST-10m	-	-

GigE	Cable	Standard	High flex	Bending
1	lm	MV-ACG-RJ45s-RJ45-ST-1m	-	-
3	3m	MV-ACG-RJ45s-RJ45-ST-3m	MV-ACG-RJ45s-RJ45-HF-3m	MV-ACG-RJ45s(up)-RJ45-ST-3m
5	ām	MV-ACG-RJ45s-RJ45-ST-5m	MV-ACG-RJ45s-RJ45-HF-5m	MV-ACG-RJ45s(up)-RJ45-ST-5m
7	7m	MV-ACG-RJ45s-RJ45-ST-7m	MV-ACG-RJ45s-RJ45-HF-7m	-
10	0m	MV-ACG-RJ45s-RJ45-ST-10m	MV-ACG-RJ45s-RJ45-HF-10m	-
1	15	MV-ACG-RJ45s-RJ45-ST-15m	MV-ACG-RJ45s-RJ45-HF-15m	MV-ACG-RJ45s(up)-RJ45-ST-15m
3	30	MV-ACG-RJ45s-RJ45-ST-30m	MV-ACG-RJ45s-RJ45-HF-30m	-



Lens Cover	Model No.
Transparent	MV-SC3000-C-NN
Half polarization	MV-SC3000-C-HP
full polarization	MV-SC3000-C-FP



Light board	Model No.
White	MV-SC3000-L-WB
Blue	MV-SC3000-L-BB
Red	MV-SC3000-L-RB
NIR	MV-SC3000-L-IB



Lens	SC3016	SC3050
6mm	BTY0640-MP	-
8mm	-	BHYB0856-12S
12mm	BTS1240-MP	BHP1256-12S
15mm	BTS1540-01S	-
16mm	-	BHP1656-12S



Display	Model No.		
E	MV-SV100		
Extention box	MV-SV400		
Touch Screen	MV-VT1010-008G50		



Mount bracket	Model No.
Standard	V020



SC5000 Vision Sensors

SC5000 smart camera has maintaining a high degree of hardware integration, algorithms such as positioning, measurement, calibration conversion, logic control, defect detection, OCR and code reading.

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Mono/ Color	Interface	Power consumption	Power supply	Lens Mount	EFL	Lens cap	Light source	Dimension
SC5016M	1/2.9″	3.45 µm	1408 × 1024	60 fps	Mono	GigE	60 W@24 VDC	12~24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White/Red/Blue/NIR	А
SC5016C	1/2.9″	3.45 µm	1408 × 1024	60 fps	Color	GigE	60 W@24 VDC	12~24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White/Red/Blue/NIR	А
SC5050M	1/1.7″	3.2 µm	2368 × 1760	40 fps	Mono	GigE	60 W@24 VDC	12~24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White/Red/Blue/NIR	А
SC5060M	1/1.8″	2.4 µm	3072 × 2048	30 fps	Mono	GigE	60 W@24 VDC	12~24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White/Red/Blue/NIR	А
SC5060M-00C-NNN	1/1.8″	2.4 µm	3072 × 2048	30 fps	Mono	GigE	12 W@24 VDC	12~24 VDC	C-Mount	/	Transparent	No light	В
SC5120M-00C-NNN	1″	3.2 µm	4096 × 3072	24 fps	Mono	GigE	12 W@24 VDC	12~24 VDC	C-Mount	/	Transparent	No light	В
SC5200M-00C-NNN	1″	2.4 µm	5440 × 3648	20 fps	Mono	GigE	12 W@24 VDC	12~24 VDC	C-Mount	/	Transparent	No light	В

Available Vision Tools

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Existence

Pattern existence, spot existence, edge existence, circle existence, line existence



Count Pattern count, spot count, edge count

Defect detection Exception detection



└ J OCR, code recognition For color model only: Color recognition, color contrast

F_ Location

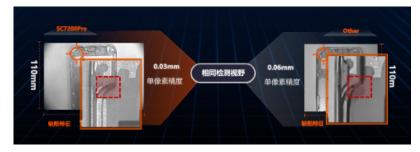
Match location, match calibration



L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement

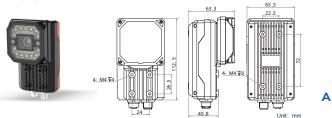


If module, condition judge, logic judge, combination judge, character comparison, calculator

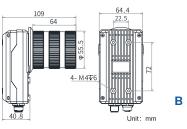


The resolution covers 1.6MP to 20MP, achieving ultra-high precision and ultra-large visual field coverage, providing high-quality images for machine vision applications.

Dimension





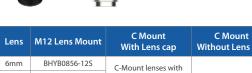


Accessories



Power&I/O cable	Standard	High flex	Bending
3m	MV-IDA-P-M12A12pF-open-ST-3m	MV-IDA-P-M12A12pF-open-HF-3m	-
5m	MV-IDA-P-M12A12pF-open-ST-5m	MV-IDA-P-M12A12pF-open-HF-5m	MV-ACP-M12A12pF(up)-open-ST-5m
7m	MV-IDA-P-M12A12pF-open-ST-7m	-	-
10m	MV-IDA-P-M12A12pF-open-ST-10m	MV-IDA-P-M12A12pF-open-HF-10m	-
15m	MV-IDA-P-M12A12pF-open-ST-15m	-	-
20m	-	MV-IDA-P-M12A12pF-open-HF-20m	-
30m	MV-IDA-P-M12A12pF-open-ST-30m	-	-





Lens	M12 Lens Mount	With Lens cap	Without Lens cap	
6mm	BHYB0856-12S	C-Mount lenses with		,
12mm	BHP1256-12S	dimension smaller than	All C-Mount Lenses	
16mm	BHP1656-12S	Φ48 mm × 62 mm		

Display	Model No.
	MV-SV100
Extention box	MV-SV400
Touch Screen	MV-VT1010-008G50

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GigE Cable	Standard	High flex
3m	MV-IDA-E-M12A8pF-RJ45-ST-3m	MV-IDA-E-M12A8pF-RJ45-HF-3m
5m	MV-IDA-E-M12A8pF-RJ45-ST-5m	MV-IDA-E-M12A8pF-RJ45-HF-5m
7m	MV-IDA-E-M12A8pF-RJ45-ST-7m	-
10m	MV-IDA-E-M12A8pF-RJ45-ST-10m	MV-IDA-E-M12A8pF-RJ45-HF-10m
15m	MV-IDA-E-M12A8pF-RJ45-ST-15m	-
20m	-	MV-IDA-E-M12A8pF-RJ45-HF-20m
30m	MV-IDA-E-M12A8pF-RJ45-ST-30m	-





Lens Cover	Model No.
Transparent	MV-SC3000-C-NN
Half polarization	MV-SC3000-C-HP
full polarization	MV-SC3000-C-FP

Light board	Model No.
White	MV-SC3000-L-WB
Blue	MV-SC3000-L-BB
Red	MV-SC3000-L-RB
NIR	MV-SC3000-L-IB



SC6000 Vision Sensors

SC6000 series smart camera is developed based on high-performance embedded processor, powerful hardware performance and fully functional VisionMaster algorithm software, which can meet the requirements of visual positioning, size measurement, defect detection, information recognition and other machine vision applications. Highly integrated product form brings more choices for intelligent manufacturing.

With built-in more than 140 visual tools, a variety of deep learning algorithms and graphic interaction, it can greatly improve the flexibility of smart camera, while maintaining its high usability. It is suitable for all kinds of complex visual detection applications.

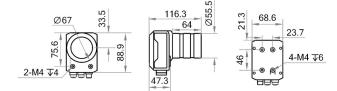


While maintaining a high degree of hardware integration, it supports different combination of C-Mount lens, light source, and display, improving the application flexibility of smart camera and the ability to cope with complex scenes.



Model	Sensor size	Pixel size	Resolution	Max. frame rate	Mono/ Color	Lens Mount	Vision Software
SC6016M-00C-NNN	1/2.9″	3.45 µm	1408 × 1024	60 fps	Mono	C-Mount	VisionMaster(With Deep Learning)
SC6016C-00C-NNN	1/2.9″	3.45 µm	1408 × 1024	60 fps	Color	C-Mount	VisionMaster(With Deep Learning)
SC6050M-00C-NNN	1/1.7″	3.2 µm	2592 × 2048	40 fps	Mono	C-Mount	VisionMaster(With Deep Learning)
SC6050C-00C-NNN	1/1.7″	3.2 µm	2592 × 2048	40 fps	Color	C-Mount	VisionMaster(With Deep Learning)

Dimension



Accessories

GigE Cable	Standard	High flex
3m	MV-IDA-E-M12A8pF-RJ45-ST-3m	MV-IDA-E-M12A8pF-RJ45-HF-3m
5m	MV-IDA-E-M12A8pF-RJ45-ST-5m	MV-IDA-E-M12A8pF-RJ45-HF-5m
7m	MV-IDA-E-M12A8pF-RJ45-ST-7m	-
10m	MV-IDA-E-M12A8pF-RJ45-ST-10m	MV-IDA-E-M12A8pF-RJ45-HF-10m
15m	MV-IDA-E-M12A8pF-RJ45-ST-15m	-
20m	-	MV-IDA-E-M12A8pF-RJ45-HF-20m
30m	MV-IDA-E-M12A8pF-RJ45-ST-30m	-

Lens	C Mount With Lens cap	C Mount Without Lens cap
Model	C-Mount lenses with dimension smaller than Φ 48 mm \times 62 mm	All C-Mount Lenses

SC7000Pro Vision Sensors

SC7000Pro smart camera is embedded with high-performance AI platform. Combined with traditional algorithms and AI algorithms, it can provide powerful help for complex and diverse detection scenarios such as defect detection, classification, OCR and positioning, .etc.

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Mono/ Color	Interface	Power consumption	Power supply	Lens Mount	EFL	Lens cap	Light source	Dimension
SC7016PM	1/2.9″	3.45 µm	1408 × 1024	60 fps	Mono	GigE	46 W@24 VDC	24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White	А
SC7016PC	1/2.9″	3.45 µm	1408 × 1024	60 fps	Color	GigE	46 W@24 VDC	24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White	А
SC7050PM	1/1.7″	3.2 μm	2368 × 1760	40 fps	Mono	GigE	46 W@24 VDC	24 VDC	M12-Mount	8/12/16 mm	Transparent; Half/ full polarization is optional	White/Red/Blue/NIR	А
SC7060PM	1/1.8″	2.4 µm	3072 × 2048	30 fps	Mono	GigE	20 W@24 VDC	24 VDC	M12-Mount	8/12 mm	Transparent; Half/ full polarization is optional	White/Red/Blue/NIR	А
SC7060PM-00C-NNN	1/1.8″	2.4 µm	3072 × 2048	30 fps	Mono	GigE	7.5 W@24 VDC	24 VDC	C-Mount	/	Transparent	No light	В
SC7120PM-00C-NNN	1″	3.2 µm	4096 × 3072	24 fps	Mono	GigE	7.5 W@24 VDC	24 VDC	C-Mount	/	Transparent	No light	В
SC7200PM-00C-NNN	1″	2.4 µm	5440 × 3648	20 fps	Mono	GigE	7.5 W@24 VDC	24 VDC	C-Mount	/	Transparent	No light	В

Available Vision Tools

Existence \odot \oslash

Pattern existence, spot existence, edge existence, circle existence, line existence

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Count Pattern count, spot count, edge count

Defect detection Exception detection

⊂ ¬ **Recognition**

└ J OCR, code recognition For color model only: Color recognition, color contrast

F_ Location

Match location, match calibration

Measurement

L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement

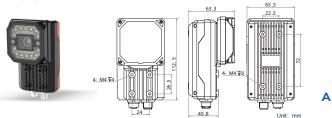
Logic tool

If module, condition judge, logic judge, combination judge, character comparison, calculator

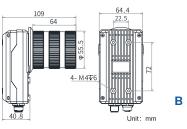


With the powerful hardware processing sensor, the deep learning algorithms of SC7000Pro series are featured with high detection accuracy, strong compatibility and simple deployment.

Dimension





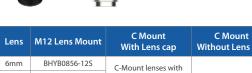


Accessories



Power&I/O cable	Standard	High flex	Bending
3m	MV-IDA-P-M12A12pF-open-ST-3m	MV-IDA-P-M12A12pF-open-HF-3m	-
5m	MV-IDA-P-M12A12pF-open-ST-5m	MV-IDA-P-M12A12pF-open-HF-5m	MV-ACP-M12A12pF(up)-open-ST-5m
7m	MV-IDA-P-M12A12pF-open-ST-7m	-	-
10m	MV-IDA-P-M12A12pF-open-ST-10m	MV-IDA-P-M12A12pF-open-HF-10m	-
15m	MV-IDA-P-M12A12pF-open-ST-15m	-	-
20m	-	MV-IDA-P-M12A12pF-open-HF-20m	-
30m	MV-IDA-P-M12A12pF-open-ST-30m	-	-





Lens	M12 Lens Mount	With Lens cap	Without Lens cap	
6mm	BHYB0856-12S	C-Mount lenses with		,
12mm	BHP1256-12S	dimension smaller than	All C-Mount Lenses	
16mm	BHP1656-12S	Φ48 mm × 62 mm		

Display	Model No.
	MV-SV100
Extention box	MV-SV400
Touch Screen	MV-VT1010-008G50

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GigE Cable	Standard	High flex
3m	MV-IDA-E-M12A8pF-RJ45-ST-3m	MV-IDA-E-M12A8pF-RJ45-HF-3m
5m	MV-IDA-E-M12A8pF-RJ45-ST-5m	MV-IDA-E-M12A8pF-RJ45-HF-5m
7m	MV-IDA-E-M12A8pF-RJ45-ST-7m	-
10m	MV-IDA-E-M12A8pF-RJ45-ST-10m	MV-IDA-E-M12A8pF-RJ45-HF-10m
15m	MV-IDA-E-M12A8pF-RJ45-ST-15m	-
20m	-	MV-IDA-E-M12A8pF-RJ45-HF-20m
30m	MV-IDA-E-M12A8pF-RJ45-ST-30m	-





Lens Cover	Model No.
Transparent	MV-SC3000-C-NN
Half polarization	MV-SC3000-C-HP
full polarization	MV-SC3000-C-FP

Light board	Model No.
White	MV-SC3000-L-WB
Blue	MV-SC3000-L-BB
Red	MV-SC3000-L-RB
NIR	MV-SC3000-L-IB



SCMVS Client Software for SC series Cameras

SCMVS client is an application software which is speically designed for SC series smart cameras. It supports vision detection of images acquired by the device in real time or imported into the device. Users can edit, manage and save the projects on the camera. It can meet the requirements of various machine vision applications such as positioning, measurement, recognition and deep learning applications.

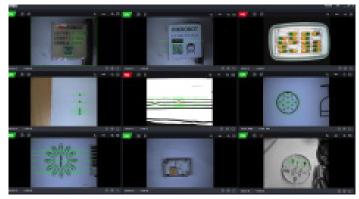
Features

- Supports multi-platform operation and is compatible with Windows7/10 32/64 bit operating system
- Simple interaction, guided process configuration mode, only four steps to build a vision project
- Support interface data statistics and multi-camera operation monitoring
- Supports I/O, communication, time calibration, firmware upgrade, password and other settings
- Supports one-click setting of camera parameters and automatically adjusts brightness, focus and white balance





Data statistics interface



Operation monitoring interface

* Download link: http://81.69.171.100:7701/SCMVS/ (acc.: general Password: A705540EC1)

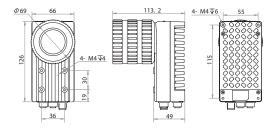
X86 Open Platform

With a built-in high-performance X86 structural chip and pre-installed Windows system, X86 Open Platform is compatible with applications based on Windows system and supports user-defined visual detection processes and software.



Model	Sensor	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/ Color	Interface	Power consumption	Power supply	Lens Mount	Lens cap	Light source	CPU	Operating system
SI608-38GM	PYTHON1300	4.8 µm	1/2"	1280×1024	80 fps	Mono	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI608-38GC	PYTHON1300	4.8 µm	1/2"	1280 × 1024	80 fps	Color	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI618-08GM	PYTHON2000	4.8 µm	2/3"	1920 × 1200	50 fps	Mono	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI628-38GM	PYTHON5000	4.8 µm	1"	2592 × 2048	30 fps	Mono	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI628-38GC	PYTHON5000	4.8 µm	1"	2592 × 2048	30 fps	Color	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI638-08GM	IMX178	2.4 µm	1/1.8"	3072 × 2048	30 fps	Mono	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI638-08GC	IMX178	2.4 µm	1/1.8"	3072 × 2048	30 fps	Color	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI648-08GM	IMX267	3.45 μm	1"	4096 × 2160	14 fps	Mono	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit
SI668-07GM	IMX183	2.4 µm	1"	5427 × 3648	10 fps	Mono	GigE	24 W@24 VDC	12~24 VDC	C-Mount	No	No	Intel® E3845	Win10 64bit
SI668-08GM	IMX183	2.4 µm	1"	5427 × 3648	10 fps	Mono	GigE	34 W@24 VDC	12~24 VDC	C-Mount	Transparent	White	Intel® E3845	Win10 64bit

Dimension













ABUNDANT

RESOLUTION



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CODE READING ACCURACY

ms CODE READING SPEED

HIGH

LOW μm

FEATURE SIZE

• 🔴 🗉 🔟



SMART CODE READERS







SUITABLE FOR MULTIPLE

INDUSTRIES





PPM requirement of 1D code is 0.85+, and PPM requirement of 2D code is 2.5+.



Support code rating





Support auto focus, one key parameter adjustment



FOV



ID2000 Series Code Readers

- 😬 Ultral-small size, easy to integrate 🛛 🖧 Multiple types for different requirements
- **Suitable for different code reading applications , including 3C and FPD industries**

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Software	Interface	Power consumption	Power supply	EFL	Working distance	Light source	Aiming system
ID2004M-06S-xBN	1/2.9"	6.9 µm	704 × 540	60 fps	41 codes/sec	IDMVS	Fast Ethernet	10.6 W@24 VDC	12 ~ 24 VDC	6.72 mm	40~120 mm manual focus	White/Red/Blue	Green LED
ID2004M-06S-xBN-U	1/2.9"	6.9 µm	704 × 540	60 fps	38 codes/sec	IDMVS	USB 2.0	4.6 W@5 VDC	5 VDC,USB2.0	6.72 mm	40~120 mm manual focus	White/Red/Blue	Green LED
ID2004M-16T	1/2.9"	6.9 µm	704 × 540	60 fps	45 codes/sec	IDMVS	Fast Ethernet	11 W@12 VDC	12~24 VDC	16 mm	100 ~ 400 mm Auto Focus	Red	Orange LED
ID2010M-05M-WLR	1/4"	3 µm	1280 × 800	50 fps	34 codes/sec	IDMVS	Fast Ethernet	6.24 W@24 VDC	12~24 VDC	5 mm	110 mm	White	Cross laser
ID2010M-05M-WLR-U	1/4"	3 µm	1280×800	50 fps	32 codes/sec	IDMVS	USB 2.0	4.4 W@5 VDC	5 VDC,USB2.0	5 mm	110 mm	White	Cross laser
ID2013M-065	1/2.7"	4 µm	1280 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	10.6 W@24 VDC	12~24 VDC	6.72 mm	40~120 mm manual focus	White/Red/Blue	Green LED
ID2013M-16S-RBN	1/2.7"	4 µm	1280 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	24 W@12 VDC	12~24 VDC	16 mm	105~150 mm manual focus	Red	/
ID2013M-25S-RBN	1/2.7"	4 µm	1280 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	24 W@12 VDC	12~24 VDC	25 mm	170~200 mm manual focus	Red	/
ID2013EM-05-xBy	1/4"	2.7 µm	1280 × 1024	50 fps	30 codes/sec	IDMVS	Fast Ethernet	2.5 W@24 VDC	12~24 VDC	4.7 mm	/	White/Red	Green LED
ID2013EM-05-xBy-U	1/4"	2.7 µm	1280 × 1024	50 fps	30 codes/sec	IDMVS	USB 2.0	2.5 W@5 VDC	5 V,USB2.0	4.7 mm	/	White/Red	Green LED
ID2016M-06S-xBN	1/2.9"	3.45 µm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	10.6 W@24 VDC	12~24 VDC	6.72 mm	40~120 mm manual focus	White/Red/Blue	Green LED
ID2016M-06S-xBN-U	1/2.9"	3.45 µm	1408 × 1024	60 fps	45 codes/sec	IDMVS	USB 2.0	4.6 W@5 VDC	5 V,USB2.0	6.72 mm	40~120 mm manual focus	White/Red/Blue	Green LED
ID2016M-16T	1/2.9"	3.45 µm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	11 W@12 VDC	12~24 VDC	16 mm	100 ~ 400 mm Auto Focus	Red	Orange LED
ID2016M-16S-RBN	1/2.9"	3.45 µm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	24 W@12 VDC	12~24 VDC	16 mm	105 ~ 150 mm	Red	/
ID2016M-25S-RBN	1/2.9"	3.45 µm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	24 W@12 VDC	12~24 VDC	25 mm	170 ~ 200 mm	Red	/
ID2016M-00C-NNN	1/2.9"	3.45 µm	1408 × 1024	60 fps	45 codes/sec	IDMVS	Fast Ethernet	6 W@12 VDC	12~24 VDC	/	/	/	/

ID2010M



1MP, 5mm EFL White/Red light

ID2004M-S/T ID2016M-S/T



0.4/1.6MP, 6 mm EFL, External focus knob T series support Auto-focus

ID2016M | C-Mount type

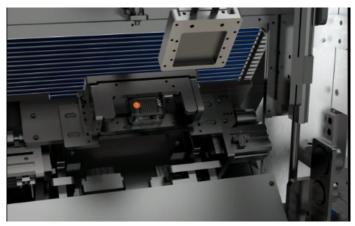
1.6MP, C-Mount for different lenses

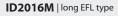
ID2013EM



1.3MP, 5 mm EFL White/Red light

With ultra-compact size, it can be installed in a small space, and perfectly integrated into miniaturized or existing automation machine equipments.







1.6MP, 16/25mm, Red light External focus knob

Accessories







l/O box	Model No.
For ID2000M	MV-IDA-IO-33
For ID2000EM	MV-IDA-IO-22



ID3000 Series Code Readers

Y Compact size and external focus knob, easy to install and adjust

- **ID** Replaceable light source and lens cap
- **One cable solution for power, I/O, ethernet, serial port**



Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Software	Interface	Power supply	Power consumption	EFL	Lens Mount	Focus	Lens Cap	Light source
ID3013PM	1/2.7"	4 µm	1280 × 1024	60 fps	84 codes/sec	IDMVS	Fast Ethernet	24 VDC	20 W@24 VDC	6/12/14.8 mm	M12-Mount	Mechanical	Half polarization; Transparent and full polarization is optional	White/Red/Blue/IR
ID3016PM	1/2.9"	3.45 μm	1408 × 1024	60 fps	84 codes/sec	IDMVS	Fast Ethernet	24 VDC	20 W@24 VDC	6/12/14.8 mm	M12-Mount	Manual/Mechanical	Transparent; polarization is optional	White/Red/Blue/IR
ID3050PM	1/1.7"	3.2 µm	2368 × 1760	30 fps	60 codes/sec	IDMVS	Fast Ethernet	24 VDC	47.5 W@24 VDC	8/12/16/25 mm	M12-Mount	Mechanical	Half polarization; Transparent and full polarization is optional	White/Red/Blue/IR



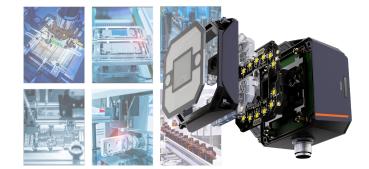
ID3016

1.3MP, with light source, M12 Mount, Manual/Mechanical focucs

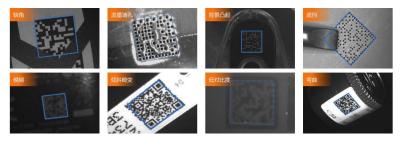


ID3013/ID3050PM

4.2MP, Polarization lens cap, Mechanical focus



Featured with high speed recognition efficiency, it has stable recognition ability for label paper and DPM bar codes of different materials, and efficiently and stably read difficult codes such as information loss, low contrast, distortion and etc..



Accessories



Power&I/O cable	Standard	High flex/Super flex	Bending
3m	MV-IDA-PE-M12A17pFopensRJ45DB9-ST-3m	MV-IDA-PE-M12A17pFopensRJ45DB9-HF-3m	MV-ACPE-M12A17F(back)-OPEN/RJ45-FL-3m
5m	MV-IDA-PE-M12A17pFopensRJ45DB9-ST-5m	MV-ACPE-M12A17F-OPEN/RJ45-FL-5m	-
10m	MV-IDA-PE-M12A17pFopensRJ45DB9-ST-10m	MV-ACPE-M12A17F-OPEN/RJ45-FL-10m	-
15m	MV-IDA-PE-M12A17pFopensRJ45DB9-ST-15m	MV-ACP-M12A17pFTB8pRJ45DB9F-SF-15m	-



Lens	ID3013/ID3016	ID3050
6mm	BTY0640-MP	-
8mm	-	BHYB0856-12S
12mm	BTS1240-MP	BHP1256-12S
14.8mm	BTS1540-MP	-
16mm	-	BHP1656-12S
25mm	-	BHP2556-12S



Lens cap	ID3013/ID3050	ID3016			
Transparent	S	S			
Half polarization	S	-			
Full polarization	S	S			



I/O box	Model No.
Standard	MV-IDA-IO-33



Mount bracket	Model No.
Standard	V020

With abundunt choices of light sources, lenses and other modules, it can ensure the optimal image lighting effect and adapt to different working distance and field of vision requirements



ID5000 Series Code Readers

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- Large FOV with high resolution up to 20MP
- High performance with max. code reading speed up to 90 codes/sec.
- D High flexibility, optional with C-Mount lens



Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Software	Interface	Power supply	Power consumption	EFL	Lens Mount	Light source	Lens Cap
ID5030M-xxS-WBN	1/2"	2.5 µm	2048 × 1536	60 fps	90codes/sec	IDMVS	GigE	24 VDC	60 W@24 VDC	8/12/15/25 mm	M12-Mount	White/Red/Blue/IR	Half polarization; Transparent and full polarization is optional
ID5050M-xxS-WBN	1/1.7″	3.2 µm	2368 × 1760	40 fps	90codes/sec	IDMVS	GigE	24 VDC	60 W@24 VDC	8/12/15/25 mm	M12-Mount	White/Red/Blue/IR	Half polarization; Transparent and full polarization is optional
ID5060M-xxS-WBN	1/1.8″	2.4 µm	3072 × 2048	30 fps	90 codes/sec	IDMVS	GigE	24 VDC	20 W@24 VDC	8/12/15/25 mm	M12-Mount	White/Red/Blue/IR	Transparent; polarization is optional
ID5060M-00C-WBN	1/1.8″	2.4 µm	3072 × 2048	30 fps	90 codes/sec	IDMVS	GigE	24 VDC	20 W@24 VDC	/	C-Mount	White/Red/Blue/IR	Transparent; polarization is optional
ID5060M-00C-NNN	1/1.8″	2.4 µm	3072 × 2048	30 fps	90 codes/sec	IDMVS	GigE	24 VDC	20 W@24 VDC	/	C-Mount	Without light	Transparent
ID5120M-00C-NNN	1″	3.2 µm	4096 × 3072	28 fps	84 codes/sec	IDMVS	GigE	12~24 VDC	12 W@24 VDC	/	C-Mount	Without light	Transparent
ID5200M-00C-NNN	1″	2.4 µm	5440 × 3648	20 fps	36 codes/sec	IDMVS	GigE	12~24 VDC	12 W@24 VDC	/	C-Mount	Without light	Transparent; polarization is optional
ID5200PM-00C-NNN	1.1"	2.5µm	5120 × 3968	20 fps	36 codes/sec	IDMVS	GigE	12~24 VDC	12 W@24 VDC	/	C-Mount	Without light	Transparent



ID5060

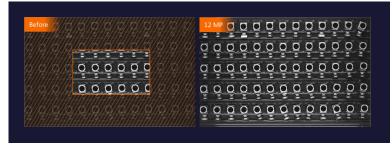
1.6/6.0MP, M12 /C-Mount, with/without light source



ID5030/ID5050 3/4.2MP, Polarization/Transparent lens cap, Integrated lens cap



ID5120/ID5200 12/20MP, without light source, C-Mount Covers 3.0-12MP resolution, cameras achieve super high code-reading accuracy and large field of view. A single device can replace the use of multiple code readers at one time, which makes complex systems easier.



Accessories



Power&I/O cable	Standard	High flex	Bending
3m	MV-IDA-P-M12A12pF-open-ST-3m	MV-IDA-P-M12A12pF-open-HF-3m	MV-ACP-M12A12pF(90°)-open-ST-3m
5m	MV-IDA-P-M12A12pF-open-ST-5m	MV-IDA-P-M12A12pF-open-HF-5m	-
7m	MV-IDA-P-M12A12pF-open-ST-7m	-	-
10m	MV-IDA-P-M12A12pF-open-ST-10m	MV-IDA-P-M12A12pF-open-HF-10m	-
15m	MV-IDA-P-M12A12pF-open-ST-15m	-	-
20m	-	MV-IDA-P-M12A12pF-open-HF-20m	-
30m	MV-IDA-P-M12A12pF-open-ST-30m	-	-

The Smart Code Reading Camera adopts embedded multi-core algorithm. The reconstructed data stream is processed in parallel among the underlying CPU, FPGA, and DSP chips; multi-threading of shooting, positioning and decoding is realized, and the efficiency of collective auditing learning technology is improved by 3 times





GigE Cable	Standard High flex		Bending
3m	MV-IDA-E-M12A8pF-RJ45-ST-3m	MV-IDA-E-M12A8pF-RJ45-HF-3m	MV-ACE-M12A8Pm(90°)-RJ45-ST-3m
5m	MV-IDA-E-M12A8pF-RJ45-ST-5m	MV-IDA-E-M12A8pF-RJ45-HF-5m	-
7m	MV-IDA-E-M12A8pF-RJ45-ST-7m	-	-
10m	MV-IDA-E-M12A8pF-RJ45-ST-10m	MV-IDA-E-M12A8pF-RJ45-HF-10m	-
15m	MV-IDA-E-M12A8pF-RJ45-ST-25m	-	-
20m	-	MV-IDA-E-M12A8pF-RJ45-HF-20m	-
30m	MV-IDA-E-M12A8pF-RJ45-ST-30m	-	-



	Lens	M12 Lens Mount	C Mount With Lens cap	C Mount Without Lens cap
	8mm	BHYB0856-12S		
	12mm	BHP1256-12S	C-Mount lenses with dimension smaller than	All C-Mount Lenses
	16mm	BHP1656-12S	Φ48 mm × 62 mm	All C-Mount Lenses
r i	25mm	BHP2556-12S		



Lens cap	ID5030/ID3050	ID5060
Transparent	S	S
Half polarization	S	-
Full polarization	S	S



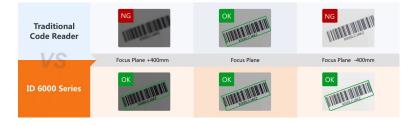
ID6000 Series Code Readers For Logistics

Image-based high-resolution barcode reader ID6000 is specialized for the logistics industry. ID6000 has especially developed in algorithm development to cope with various complex logistics code reading application scenarios.

Based on high-performance multi-core deep learning processor, ID6000 series has specially optimized decoding algorithm and high decoding frames rate. It can identify complex codes in common environment such as stained, defective and poorly printing codes.



ID6000 series can be matched with various types of external integrated light sources, combined with high-performance decoding algorithms, to achieve a super-large depth of field effect of over 700mm, can cover packages under 700mm through 1 camera.



Model	Sensor size	Pixel size	Resolution	Max. frame rate	Max. reading speed	Interface	Lens Mount
ID6089M-00C-NNG	1″	3.45 µm	4096 × 2160	30 fps	90codes/sec	GigE	C-Mount
ID6200EM-00C-NNG	1″	2.4 µm	5440 × 3648	10 fps	30codes/sec	GigE	C-Mount
ID6200M-00C-NNG	1″	2.4 µm	5440 × 3648	20 fps	60 codes/sec	GigE	C-Mount
ID6200PM-00C-NNG	1.1″	2.5 μm	5120 × 3968	20 fps	60 codes/sec	GigE	C-Mount

Accessories



	Control unit Model VC2000 series MV-VC2000-128G40-NN IPC2000 series MV-IPC-2504/MV-IPC-2504_27(MV-1PC-2504_27(MV-1PC-2504_27(MV-1PC-2504_27(MV-1P	
	VC2000 series	MV-VC2000-128G40-NN
A SECONDON	IPC2000 series	MV-IPC-2302 MV-IPC-2504/MV-IPC-2504L/MV-IPC-2504-2T/MV-IPC-2504L-2T/MV-IPC-2504-256G1T

•	Light	Power cable	Network cable	Light trigger cable	Camera to Light cable
	3m	MV-ACC-02-2201-03m	MV-ACC-02-1101-03m		
	5m	MV-ACC-02-2201-05m	MV-ACC-02-1101-05m		
	7m	MV-ACC-02-2201-07m	MV-ACC-02-1101-07m	MV-ACC-02-T-light-07m	MV-ACC-02-link-0.5m
	10m	MV-ACC-02-2201-10m	MV-ACC-02-1101-10m		
	15m	MV-ACC-02-2201-15m	MV-ACC-02-1101-15m		

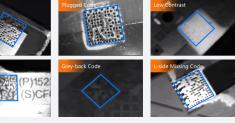
IDH Series Handheld Smart Code Readers

As a powerful handheld barcode scanner, the IDH series adopt a million-resolution global exposure sensor. With high-level protection, IDH has red/white fill light which can be automatically adjusted. Support USB/network port, simple and convenient to use.

Self-developed algorithm and excellent DPM code reading, IDH series has excellent reading performance for difficult codes: bump codes, plugged codes, low contrast, scratches, reflections, and curved codes. Can realize efficient code reading in complex scenarios:

Network models support most common industrial communication protocols, such as Profinet and modbus, and etc..







IDH3013 IDH5010 IDH7010

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Smart factory



Manufacturing



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Warehousing

Model	Sensor size	Pixel size	Resolution	Max. frame rate	Min. accuracy	Interface	Power supply	Power consumption	EFL
IDH3013-05x-R1L	1/4″	3 µm	1280 × 1024	50 fps	S:4 mil, N:3 mil	Fast Ethernet, RS-232	12~24 VDC	1.5 W@5 VDC	4.7 mm
IDH3013-05x-R1U	1/4″	3 µm	1280 × 1024	50 fps	S:4 mil, N:3 mil	USB2.0	5 VDC	1.5 W@5 VDC	4.7 mm
IDH5010-05-xR-L	1/4″	3 µm	1280×800	50 fps	S:4 mil, N:3 mil	Fast Ethernet, RS-232	12 ~ 24 VDC	4.94 W@12 VDC	5 mm
IDH5010-05-xR-U	1/4″	3 µm	1280×800	50 fps	S:4 mil, N:3 mil	USB3.0	5 VDC	4.36 W@5 VDC	5 mm
IDH7010P-07-xR-L	1/4″	3 µm	1280×800	50 fps	S:4 mil, N:3 mil	Fast Ethernet, RS-232	12 ~ 24 VDC	6 W@24 VDC	6.7 mm
IDH7010P-07-xR-U	1/4″	3 µm	1280×800	50 fps	S:4 mil, N:3 mil	USB2.0	12 ~ 24 VDC	6 W@24 VDC	6.7 mm
IDH7010B-07-xR-L	1/4″	3 µm	1280×800	50 fps	S:4 mil, N:3 mil	wireless (with network base)	3.8 VDC (Battery)	6.4 W@ 3.8 VDC	6.7 mm
IDH7010B-07-xR-U	1/4″	3 µm	1280×800	50 fps	S:4 mil, N:3 mil	wireless (with USB base)	3.8 VDC (Battery)	6.4 W@ 3.8 VDC	6.7 mm



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