SC3000 Series Vision Sensor

Integrated with imaging, processing and communication functions, the SC3000 series has a more compact size and the vision detection tools lead to better performance. Equipped with a new SCMVS for on-site deployment and lower debugging requirements, bringing a more comprehensive and cost-effective choice for visual inspection!



• Comprehensive Error-proofing Detection Algorithm



• Outgoing right angle design, supporting 180 degree rotation, flexible adaptation to narrow spaces

Specifications

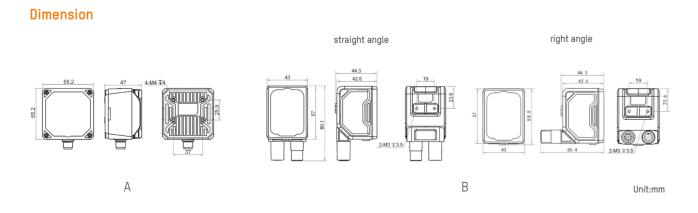
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Mode	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/ color	Focal length	Label
MV-SC3016M	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition		1/2.9"	1408 × 1024	60 fps	Mono	6/12.4/ 14.8 mm	A
MV-SC3016C	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: Color size, L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, color contrast, code recognition, color recognition	3.45 µm	1/2.9"	1408 × 1024	60 fps	Color	6/12.4/ 14.8 mm	A

Mode	Vision tool	Pixel size	Sensor size	Resolution	Max. frame rate	Mono/ color	Focal length	Lab
MV-SC3050M	Count: Pattern count, spot count, edge count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition	3.2 µm	1/1.7"	2368 × 1760	30 fps	Mono	8/12.4/ 16mm	A
MV-SC3013XM	Count: Pattern count, spot count, edge count,outline count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence,outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition Deep learning: object detection, classification		1/1.45"	1216 × 1024	60 fps	Mono	8/12/ 16 mm	В
MV-SC3013XC	Count: Pattern count, spot count, edge count, outline count, color count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition, color contrast, color recognition Deep learning: object detection, classification	6.9 µm	1/1.45"	1216 × 1024	60 fps	Color	8/12/ 16 mm	В
MV-SC3030XM	Count: Pattern count, spot count, edge count,outline count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence,outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition Deep learning: object detection, classification		1/1.8"	2048 × 1536	40 fps	Mono	8/12/ 16mm	В



Mode	Vision tool	Pixel Sensor Resolution Max. Mono/ Focal size size size color length	Label				
	Count: Pattern count, spot count, edge count,outline count,color count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle		Adapt to SC300	DOM model			
	existence, line existence,outline existence Location: Match location, match calibration, fixture			I/O Power Cables	Standard	High Softness	Elbow
10 30303070	Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis,	3.45 µm 1/1.8" 2048 × 1536 40 fps Color 8/12/ 16 mm	В	3m	MV-IDA-PE-M12A17pF- opensRJ45DB9-ST-3m	MV-IDA-PE-M12A17pF- opensRJ45DB9-HF-3m	MV-ACPE-M12A17F(back)- OPEN/RJ45-FL-3m
	contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: 0CR, code recognition, color contrast, color recognition			5m	MV-IDA-PE-M12A17pF- opensRJ45DB9-ST-5m	MV-IDA-PE-M12A17pF-RJ45M DB9/Opens-SF-5m	/
	Deep learning: object detection, classification			10m	MV-IDA-PE-M12A17pF- opensRJ45DB9-ST-10m	MV-IDA-PE-M12A17pF-open/ RJ45/DB9-HF-10m	
	Count: Pattern count, spot count, edge count,outline count			15m	MV-IDA-PE-M12A17pF- opensRJ45DB9-ST-15m	MV-IDA-PE-M12A17pF- opensRJ45DB9-HF-15m	
	Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence						
V-SC3050XM	Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement		В	Gigabit Network Cable		High Softness	Elbow
-SC3050XM	Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement,		В	lm	MV-ACG-RJ45s-RJ45-ST-1m		
-SC3050XM	Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition		в	5	MV-ACG-RJ45s-RJ45-ST-1m MV-ACG-RJ45s-RJ45-ST-3m	 MV-ACG-RJ45s-RJ45-HF-3m	—— MV-ACG-RJ45s(up)-RJ45-ST-3r
-SC3050XM	Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition Deep learning: object detection, classification Count: Pattern count, spot count, edge count, outline count, color count Defect detection: Exception detection		в	1m 3m	MV-ACG-RJ45s-RJ45-ST-1m MV-ACG-RJ45s-RJ45-ST-3m MV-ACG-RJ45s-RJ45-ST-5m	 MV-ACG-RJ45s-RJ45-HF-3m	—— MV-ACG-RJ45s(up)-RJ45-ST-3r
SC3050XM	Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition Deep learning: object detection, classification Count: Pattern count, spot count, edge count, outline count, color count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence		в	1m 3m 5m	MV-ACG-RJ45s-RJ45-ST-1m MV-ACG-RJ45s-RJ45-ST-3m MV-ACG-RJ45s-RJ45-ST-5m MV-ACG-RJ45s-RJ45-ST-7m	MV-ACG-RJ45s-RJ45-HF-3m MV-ACG-RJ45s-RJ45-HF-5m	—— MV-ACG-RJ45s(up)-RJ45-ST-3r MV-ACG-RJ45s(up)-RJ45-ST-5r ——
-SC3050XM	Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition Deep learning: object detection, classification Count: Pattern count, spot count, edge count,outline count,color count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge,			1m 3m 5m 7m	MV-ACG-RJ45s-RJ45-ST-1m MV-ACG-RJ45s-RJ45-ST-3m MV-ACG-RJ45s-RJ45-ST-5m MV-ACG-RJ45s-RJ45-ST-7m MV-ACG-RJ45s-RJ45-ST-10m	 MV-ACG-RJ45s-RJ45-HF-3m MV-ACG-RJ45s-RJ45-HF-5m MV-ACG-RJ45s-RJ45-HF-7m MV-ACG-RJ45s-RJ45-HF-10m	—— MV-ACG-RJ45s(up)-RJ45-ST-3r MV-ACG-RJ45s(up)-RJ45-ST-5r ——
-SC3050XM	Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture Logic tool: If module, condition judge, logic judge, combination judge, string comparison, calculator Measurement: L2L angle, diameter measurement, brightness analysis, contrast measurement, width measurement, P2L measurement, greyscale size, line angle, edge width measurement Recognition: OCR, code recognition Deep learning: object detection, classification Count: Pattern count, spot count, edge count, outline count, color count Defect detection: Exception detection Existence: Pattern existence, spot existence, edge existence, circle existence, line existence, outline existence Location: Match location, match calibration, fixture			1m 3m 5m 7m 10m	MV-ACG-RJ45s-RJ45-ST-1m MV-ACG-RJ45s-RJ45-ST-3m MV-ACG-RJ45s-RJ45-ST-5m MV-ACG-RJ45s-RJ45-ST-7m MV-ACG-RJ45s-RJ45-ST-10m MV-ACG-RJ45s-RJ45-ST-15m	 MV-ACG-RJ45s-RJ45-HF-3m MV-ACG-RJ45s-RJ45-HF-5m MV-ACG-RJ45s-RJ45-HF-7m MV-ACG-RJ45s-RJ45-HF-10m	—— MV-ACG-RJ45s(up)-RJ45-ST-3r MV-ACG-RJ45s(up)-RJ45-ST-5r —— ——



Power Supply	Two Wire Adapter	Desktop Two Wire Adapter	Swit
Model	ADS-26FSG-12 12024EPCN	KPL-060M-VI	



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	Lens	SC3013	SC3050
	6mm	BTY0640-MP	
bly	8mm		BHYB0856-12S
JU	12mm	BTS1240-MP	BHP1256-12S
	15mm	BTS1540-01S	
	16mm		BHP1656-12S

25mm

itching Power Supp

LRS-150F-24

BHP2556-12S



Model

MV-SC3000-C-NN

MV-SC3000-C-HP

MV-SC3000-C-FP

MV-IDA-C-Y-62-62-M1

MV-IDA-C-Y-62-62-M2

Lens Cap

Transparent

Semi-polarization

Polarization

Magnifier



Display Equipment

Expansion Box

Touch Screen



Model

MV-SV100

MV-SV400

MV-VT1010-008G50

MV-VT3000-128G40

Adapt to	SC3000X	model
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I/O Power Cables	Standard	High Softness	Elbow
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		



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Light source	Model
White	MV-SC3000-L-WB
Blue	MV-SC3000-L-BB
Red	MV-SC3000-L-RB
Near-infrared	MV-SC3000-L-IB

Mounting Component	Model
Standard	V020-Mounting Component

	Gigabit Network Cable	Standard	High Softness	Elbow
	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	MV-ACE-M12A8Pm (UP)-RJ45-C5e-5m
W	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		



IO Box	Model
Standard	MV-IDA-IO-33

Lens Cap	Model
SC3000X	Magnifier
	Uniform light cover
	YAG guard
	ESD guard