

MV-SC2016EC

1.6 MP 1/2.9" Vision Sensor

Introduction

With built-in positioning and measurement algorithms, MV- SC2016EC vision sensor can detect object's existence, count patterns and spots, etc. It can be monitored and operated via the SCMVS client. It can output results via RS-232 and Ethernet, and cooperate with other processes via IO. The vision sensor supports multiple result output methods and customized result text output.

Key Features

- Adopts embedded hardware platform for high-speed image processing.
- Adopts built-in positioning and measurement algorithms to detect object's existence, count patterns and spots, etc.
- Multiple IO interfaces for input and output signals.
- Multiple indicators for displaying device status.
- Adopts light source to ensure uniform brightness in the illuminated area.
- Supports multiple communication protocols, including Serial Port, TCP, UDP, FTP, Profinet, Modbus, Ethernet/IP, etc.

Available Model

 8 mm focal length: MV-SC2016EC-08S-WBN

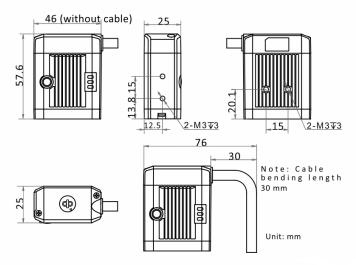
CE FC

- 12.4 mm focal length: MV-SC2016EC-12S-WBN
- 14.8 mm focal length:
- MV-SC2016EC-15S-WBN

Applicable Industry

Consumer electronics, food and medical industry, automobile, etc.

Dimension





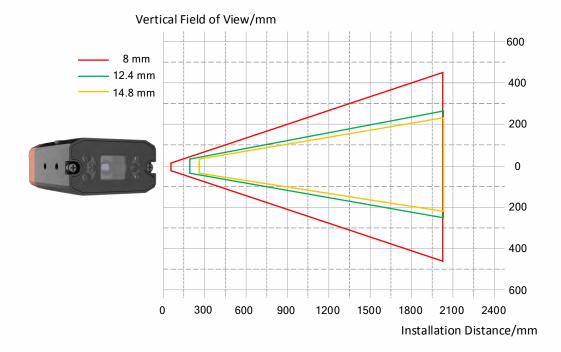


Specification

Model	MV-SC2016EC-08S-WBN	MV-SC2016EC-12S-WBN	MV-SC2016EC-15S-WBN		
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Vision tool	Existence: Pattern existence, spot existence				
	Count: Pattern count, spot count				
	 Measurement: Brightness average value, contrast measurement, color size 				
	Recognition: Color contrast				
Solution capacity	Supports solution importing and exporting, up to 8 solutions and 40 modules can be stored.				
Communication protocol	Serial Port, TCP, UDP, FTP, Profinet, Modbus, Ethernet/IP				
Camera					
Sensor type	CMOS, global shutter				
Pixel size	3.45 μm × 3.45 μm				
Sensor size	1/2.9"				
Resolution	1408 × 1024				
Max. frame rate	60 fps				
Dynamic range	71.4 dB				
SNR	41 dB				
Gain	0 dB to 15 dB				
Exposure time	16 µs to 1 sec				
Pixel format	Mono 8, RGB 8				
Mono/color	Color				
Electrical features					
Data interface	Fast Ethernet				
Digital I/O	17-pin M12 connector provides power, Ethernet, serial port, digital I/O, including config I/O × 2 (Line 0/1), input signal × 1 (Line 2), output signal × 1 (Line 3), and RS-232× 1.				
	Device trigger via pressing button supported.				
Power supply	12 VDC to 24 VDC				
Max. power consumption	Approx. 22 W@24 VDC				
Mechanical	1				
Lens mount	M12-mount, adjusting focus n	nanually supported			
Focal length	8 mm (0.3")	12.4 mm (0.5")	14.8 mm (0.6")		
Lens cap	Transparent lens cap				
Light source	White LED lamp				
Indicator	Power indicator (PWR), network indicator (LNK), and status indicator (STS).				
Dimension	46 mm × 57.6 mm × 25 mm (1.8" × 2.3" × 1.0")				
Weight	Approx. 220 g (0.5 lb.)				
Ingress protection	IP65 (under proper installation of lens and wiring)				
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F)				
	Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)				
Humidity	20% to 95% RH, non-condensing				
General					
Client software	SCMVS				
Certification	CE, FCC, KC				

Detection Range

Lens focal length	Installation distance	Field of view	Single pixel accuracy
8 mm (0.3")	80 mm (3.1")	47.62 mm × 34.64 mm (1.9" × 1.4")	0.034 mm
	2000 mm (78.7")	1190.59 mm×865.88 mm (46.9"×34.1")	0.846 mm
12.4 mm (0.5")	200 mm (7.9")	78.35 mm × 56.98 mm (3.1" × 2.2")	0.056 mm
	2000 mm (78.7")	783.48 mm × 569.81 mm (30.8" × 22.4")	0.556 mm
14.9 mm (0.0")	270 mm (10.6")	88.62 mm × 64.45 mm (3.5" × 2.5")	0.063 mm
14.8 mm (0.6")	2000 mm (78.7")	656.43 mm × 477.41 mm (25.8" × 18.8")	0.466 mm



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