SC3016C

1.6 MP 1/2.9" Vision Sensor







Introduction

With built-in positioning and measurement algorithms, ● SC3016C vision sensor can detect object's existence, position, ● dimension, color, 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, position, dimension, 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 Client, TCP Server, Profinet, Modbus, etc.

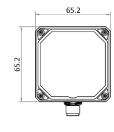
Available Model

- 6 mm focal length: SC3016C-06M-WBN
- 12.4 mm focal length: SC3016C-12M-WBN
- 14.8 mm focal length: SC3016C-15M-WBN

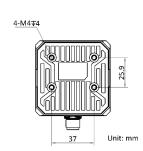
Applicable Industry

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

Dimension







Specification

Count: Pattern count, spot count, edge count Measurement: Brightness analysis, contrast measurement, greyscale size, diamet measurement, width measurement, line angle, line to line angle, point to line measurement color size Recognition: OCR, color contrast, barcode recognition Supports solution importing and exporting, up to 32 solutions and 40 modules can be stored. Communication protocol Serial Port, TCP Client, TCP Server, UDP Server, FTP, Profinet, Modbus, Ethernet/IP	Model	SC3016C-06M-WBN	SC3016C-12M-WBN	SC3016C-15M-WBN		
Count: Pattern count, spot count, edge count Measurement: Brightness analysis, contrast measurement, greyscale size, diamet measurement, width measurement, line angle, line to line angle, point to line measurement color size Recognition: OCR, color contrast, barcode recognition Solution capacity* Supports solution importing and exporting, up to 32 solutions and 40 modules can be stored. Communication protocol 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 50 fps Dynamic range 71.4 dB SSNR 41 dB Gain 0 dB to 15 dB Exposure time 16 μs to 1 sec Pixel format Mono/color Color Electrical features Data interface 17-pin M12 connector provides power, Ethernet, digital I/O, and serial port Ethernet Fast Ethernet Digital I/O Input signal × 2 (Line 0/1), output signal × 3 (Line 5/6/7), bi-directional I/O × 3 (Line 2/3/4), at external button input × 1. Output signal can be set as NPN or PNP Power supply Approx. 48 W@24 VDC Max. power consumption Mechanical Lens mount M12-mount, mechanical autofocus lens Goal length 6 mm (0.2") 12.4 mm (0.5") 14.8 mm (0.6") Lens cap Transparent lens cap. Polarization or infrared filter lens cap is optional. Light source White light by default. Red/blue/near-infrared is optional. Light source White light by default. Red/blue/near-infrared is optional. Indicator Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (NK/Nc plines) in proper installation of lens and wiring) Temperature Working temperature: 0 "C to S 0 "C (32 "F to 122 "F)	Tool					
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Humidity 20% to 95% RH, non-condensing	Humidity					
General	-		-			
Client software SCMVS	Client software	SCMVS				
Certification CE, FCC, KC		+				

^{*}Single solution supports up to 4 pattern count modules, or 4 existence modules, or 4 color size modules.

Detection Range

Lawa faral lawath	In atallation distance	Field of view	Cinala minal accourage
Lens focal length	Installation distance	Field of view	Single pixel accuracy
6 mm (0.2")	5 mm (0.2")	4.05 mm × 2.94 mm	0.003 mm
		(0.2" × 0.1")	
	2000 mm (78.7")	1619.20 mm × 1177.60 mm	1.150 mm
		(63.7" × 46.4")	
12.4 mm (0.5")	70 mm (2.8")	27.42 mm × 19.94 mm	0.019 mm
		(1.1" × 0.8")	
	2000 mm (78.7")	783.48 mm × 569.81 mm	0.556 mm
		(30.8" × 22.4")	
14.8 mm (0.6")	80 mm (3.1")	26.26 mm × 19.10 mm	0.019 mm
		(1.0" × 0.8")	
	2000 mm (78.7")	656.43 mm × 477.41 mm	0.466 mm
		(25.8" × 18.8")	

