

MV-ID3050PM

5 MP Industrial Code Reader



RoHS



Introduction

MV-ID3050PM industrial code reader can read different types of codes with reading speed up to 60 codes/sec. It adopts Hikrobot's deep learning algorithm to process images with good robustness, and can recognize various complex codes.

Key Feature

- Adopts built-in deep learning algorithm to read codes with good robustness.
- Adopts CMOS global shutter sensor to provide high quality images.
- Adopts multiple I/O interfaces for input and output signals.
- Adopts 14 LED lights to provide polarized and non-polarized modes.
- Adopts 2 LED aiming lights for easy installation and code aiming.
- Indicators on device display device status and code reading results.

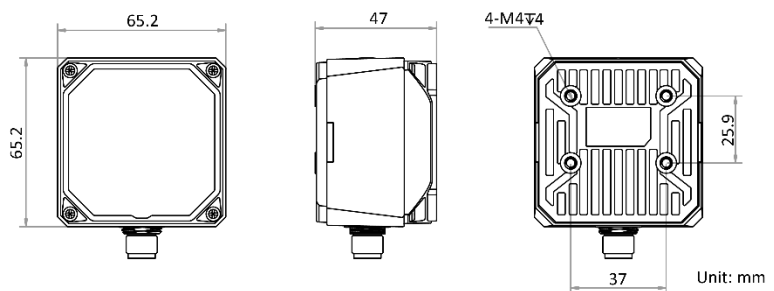
Applicable Industry

Consumer electronics, food and beverage, pharmaceutical, semiconductor, automobile, etc.

Available Model

- 8 mm focal length: MV-ID3050PM-08M-WBN
- 12 mm focal length: MV-ID3050PM-12M-WBN
- 16 mm focal length: MV-ID3050PM-16M-WBN
- 25 mm focal length: MV-ID3050PM-25M-WBN

Dimension



Model	MV-ID3050PM-08M-WBN	MV-ID3050PM-12M-WBN	MV-ID3050PM-16M-WBN	MV-ID3050PM-25M-WBN
Performance				
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, UPCA, UPCE, ITF 14, ITF 25, Matrix 25, MSI, China Post, Code 11, Industrial 2of5, Pharmacode			
	2D codes: QR Code, Data Matrix, MicroQR, AZTEC, HanXin			
	Stacked codes: PDF417			
Max. frame rate	50 fps			
Max. reading speed	60 codes/sec			
Sensor type	CMOS, global shutter			
Pixel size	3.4 μm × 3.4 μm			
Sensor size	2/3"			
Resolution	2432 × 2048			
Exposure time	60 μs to 1 sec			
Gain	0 dB to 18 dB			
Mono/color	Mono			
Communication protocol	SmartSDK, TCP Client, Serial, FTP, TCP Server, Profinet, MELSEC/SLMP, Ethernet/IP, ModBus, Fins, UDP			
Electrical feature				
Data interface	Fast Ethernet (100 Mbit/s)			
Digital I/O	17-pin M12 interface provides power supply and I/O, including non-isolated input (LineIn 0/1/2) × 3, non-isolated output (LineOut 3/4/5) × 3, RS-232 input × 1, and RS-232 output × 1.			
Power supply	24 VDC			
Power consumption	Avg.: 10.6 W @ 24 VDC (light source enabled) Max.: 45 W @ 24 VDC (light source enabled)			
Mechanical				
Focal length	8 mm	12 mm	16 mm	25 mm
Lens mount	M12-mount, mechanical focus supported			
Lens cap	Half polarization lens cap by default. Polarization lens cap and transparent lens cap are optional.			
Light source	Spotlight white light. Spotlight red/blue/IR/UV light is optional.			
Indicator	Power indicator (PWR), network indicator (LNK/ACT), status indicator (STS), result indicator (OK/NG)			
Dimension	65.2 mm × 65.2 mm × 47 mm (2.6" × 2.6" × 1.9")			
Weight	Approx. 280 g (0.6 lb.)			
Ingress protection	IP67 (under proper installation of waterproof lens cap)			
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% RH to 95% RH (no condensation)			
General				
Client software	IDMVS			
Certification	CE, RoHS, KC			

MV-ID3050PM (Unit: mm)						
Focal Length	Working Distance	Field of View		1D Min. Resolution*	2D Min. Resolution**	Diagram of Horizontal Field of View
		H	V			
8	25	25.8	21.8	0.011	0.032	
	100	103.4	87.0	0.043	0.128	
	200	206.7	174.1	0.085	0.255	
	300	310.1	261.1	0.128	0.383	
	400	413.4	348.2	0.170	0.510	
	500	516.8	435.2	0.213	0.638	
	600	620.2	522.2	0.255	0.765	
12	60	41.3	34.8	0.017	0.051	
	100	68.9	58.0	0.028	0.085	
	200	137.8	116.1	0.057	0.170	
	300	206.7	174.1	0.085	0.255	
	400	275.6	232.1	0.113	0.340	
	500	344.5	290.1	0.142	0.425	
	600	413.4	348.2	0.170	0.510	
16	80	41.3	34.8	0.017	0.051	
	100	51.7	43.5	0.021	0.064	
	200	103.4	87.0	0.043	0.128	
	300	155.0	130.6	0.064	0.191	
	400	206.7	174.1	0.085	0.255	
	500	258.4	217.6	0.106	0.319	
	600	310.1	261.1	0.128	0.383	
25	230	76.1	64.1	0.031	0.094	
	300	99.2	83.6	0.041	0.122	
	400	132.3	111.4	0.054	0.163	
	500	165.4	139.3	0.068	0.204	
	600	198.5	167.1	0.082	0.245	

1D Min. Resolution (mm)*: Field of view (long side) / resolution (long side) × 1)

2D Min. Resolution (mm)**: Field of view (long side) / resolution (long side) × 3)