

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.

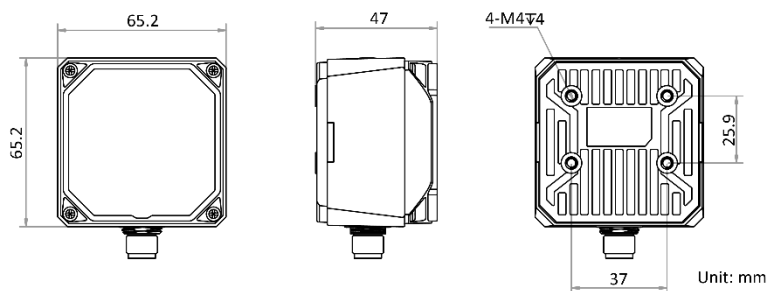
Applicable Industry

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

Available Model

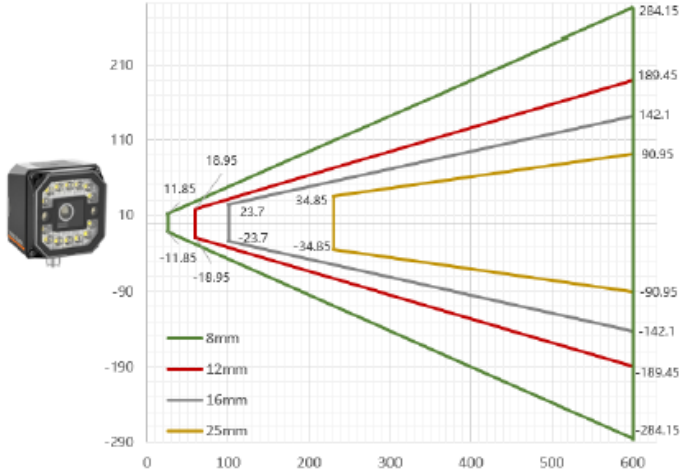
- 8 mm focal length: MV-ID3050PM-08M-WBN
- 12 mm focal length: MV-ID3050PM-12M-WBN
- 16 mm focal length: MV-ID3050PM-16M-WBN
- 25 mm focal length: MV-ID3050PM-25M-WBN

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, Industrial25			
	2D codes: QR Code, Data Matrix			
	Stacked codes: PDF417			
Max. frame rate	30 fps			
Max. reading speed	60 codes/sec			
Sensor type	CMOS, global shutter			
Pixel size	3.2 μm × 3.2 μm			
Sensor size	1/1.7"			
Resolution	2560 × 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			
Max. power consumption	10.6 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 light is optional.			
Indicator	Power indicator (PWR), network indicator (LNK), 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. ResolutionΔ	Diagram of Horizontal Field of View
		H	V			
8	25	23.7	17.6	0.01	0.03	
	100	94.7	70.4	0.04	0.12	
	200	189.4	140.8	0.08	0.24	
	300	284.2	211.2	0.12	0.36	
	400	378.9	281.6	0.16	0.48	
	500	473.6	352	0.2	0.6	
	600	568.3	422.4	0.24	0.72	
12	60	37.9	28.2	0.016	0.048	
	100	63.1	46.9	0.027	0.08	
	200	126.3	93.9	0.053	0.16	
	300	189.4	140.8	0.08	0.24	
	400	252.6	187.7	0.107	0.32	
	500	315.7	234.7	0.133	0.4	
	600	378.9	281.6	0.16	0.48	
16	100	47.4	35.2	0.02	0.06	
	200	94.7	70.4	0.04	0.12	
	300	142.1	105.6	0.06	0.18	
	400	189.4	140.8	0.08	0.24	
	500	236.8	176	0.1	0.3	
	600	284.2	211.2	0.12	0.36	
25	230	69.7	51.8	0.029	0.088	
	300	90.9	67.6	0.038	0.115	
	400	121.2	90.1	0.051	0.154	
	500	151.6	112.6	0.064	0.192	
	600	181.9	135.2	0.077	0.23	

1D Min. Resolution (mm)*: Field of view (long side) / resolution (long side) × number of pixels in the minimum bar width (number of pixels in the minimum bar width = 1)

2D Min. Resolution (mm)Δ: Field of view (long side) / resolution (long side) × number of pixels in the side length of minimum module unit (number of pixels in the side length of minimum module unit = 3)