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MV-ID3013PM

1.3 MP Smart Code Reader

Introduction

MV-ID3013PM smart code reader can read different types of codes with reading speed up to 84 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 IO interfaces for input and output signals.
- Adopts 14 LED lamps to provide light source.
- Supports polarized and non-polarized modes.
- Adopts 2 LED aiming lamps for easy installation and code aiming.
- Indicators on device display device status and code reading results.

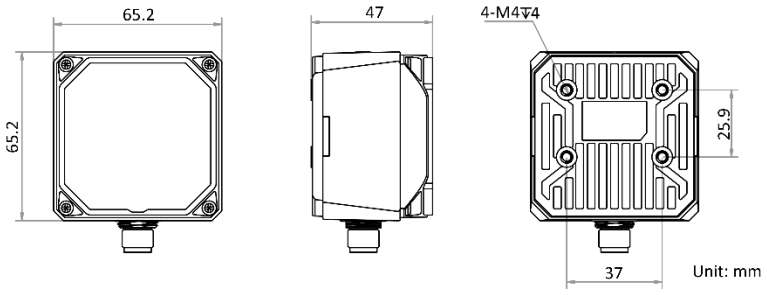
Applicable Industry

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

Available Model

6 mm focal length: MV-ID3013PM-06M-WBN
12 mm focal length: MV-ID3013PM-12M-WBN
14.8 mm focal length: MV-ID3013PM-15M-WBN

Dimension



Specification

Model	MV-ID3013PM-06M-WBN	MV-ID3013PM-12M-WBN	MV-ID3013PM-15M-WBN
Performance			
Symbologies	1-dimensional 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 and Industrial 25		
	2-dimensional codes: QR Code, Data Matrix		
	Stack codes: PDF 417		
Max. frame rate	60 fps		
Max. reading speed	84 codes/sec		
Sensor type	CMOS, global shutter		
Pixel size	4 μm × 4 μm		
Sensor size	1/2.7"		
Resolution	1280 × 1024		
Exposure time	35 μs to 1 sec		
Gain	0 dB to 15 dB		
Mono/color	Mono		
Communication protocol	SmartSDK, TCP Client, TCP Server, Serial, FTP, Profinet, Ethernet/IP, MELSEC, ModBus, Fins, SLMP		
Electrical feature			
Data interface	Fast Ethernet		
Digital I/O	17-pin M12 connector provides power and I/O, including non-isolated input (LineIn 0/1/2) × 3, non-isolated output (LineOut 0/1/2) × 3, RS-232 input × 1, RS-232 output × 1. Device trigger via pressing button on top supported.		
Power supply	24 VDC		
Max. power consumption	Approx. 20 W@24 VDC (light source enabled)		
Mechanical			
Focal length	6 mm (0.2")	12 mm (0.5")	14.8 mm (0.6")
Lens mount	M12-mount, mechanical autofocus supported.		
Lens cap	Half polarized front cover by default. Polarized and transparent ones are optional.		
Light source	White light by default. 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% to 95% RH, non-condensing		
General			
Client software	IDMVS		
Certification	CE, RoHS		

Detection Range

MV-ID3013PM (Unit: mm)						
Lens Focal Length	Working Distance	FoV		1D Single Pixel Accuracy	2D Single Pixel Accuracy	Horizontal FoV Diagram
		H	V			
6	20	17.1	13.7	0.013	0.04	
	100	85.3	68.3	0.067	0.2	
	200	170.7	136.5	0.133	0.4	
	300	256	204.8	0.2	0.6	
	400	341.3	273.1	0.267	0.8	
	500	426.7	341.3	0.333	1	
	600	512	409.6	0.4	1.2	
12	60	25.6	20.5	0.02	0.06	
	100	42.7	34.1	0.033	0.1	
	200	85.3	68.3	0.067	0.2	
	300	128	102.4	0.1	0.3	
	400	170.7	136.5	0.133	0.4	
	500	213.3	170.7	0.167	0.5	
	600	256	204.8	0.2	0.6	
14.8	88	30.4	24.4	0.024	0.071	
	100	34.6	27.7	0.027	0.081	
	200	69.2	55.4	0.054	0.162	
	300	103.8	83	0.081	0.243	
	400	138.4	110.7	0.108	0.324	
	500	173	138.4	0.135	0.405	
	600	207.6	166.1	0.162	0.486