

# MV-ID3013PM

## 1.3 MP Smart Code Reader



CE

RoHS

### 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.

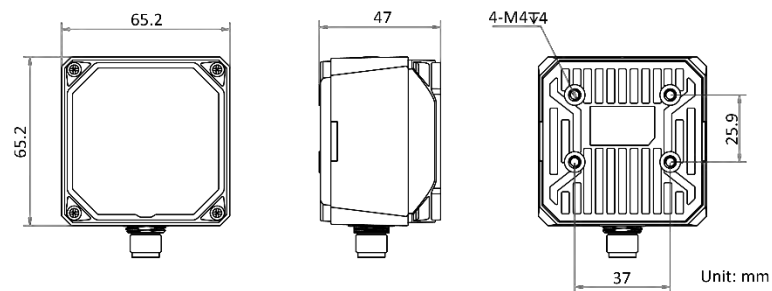
### Available Model

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
<b>Performance</b>			
<b>Symbologies</b>	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		
<b>Max. frame rate</b>	60 fps		
<b>Max. reading speed</b>	84 codes/sec		
<b>Sensor type</b>	CMOS, global shutter		
<b>Pixel size</b>	4 $\mu\text{m}$ $\times$ 4 $\mu\text{m}$		
<b>Sensor size</b>	1/2.7"		
<b>Resolution</b>	1280 $\times$ 1024		
<b>Exposure time</b>	35 $\mu\text{s}$ to 1 sec		
<b>Gain</b>	0 dB to 15 dB		
<b>Mono/color</b>	Mono		
<b>Communication protocol</b>	SmartSDK, TCP Client, TCP Server, Serial, FTP, Profinet, Ethernet/IP, MELSEC, ModBus, Fins, SLMP		
<b>Electrical feature</b>			
<b>Data interface</b>	Fast Ethernet		
<b>Digital I/O</b>	17-pin M12 connector provides power and I/O, including non-isolated input (LineIn 0/1/2) $\times$ 3, non-isolated output (LineOut 0/1/2) $\times$ 3, RS-232 input $\times$ 1, RS-232 output $\times$ 1. Device trigger via pressing button on top supported.		
<b>Power supply</b>	24 VDC		
<b>Max. power consumption</b>	Approx. 20 W@24 VDC (light source enabled)		
<b>Mechanical</b>			
<b>Focal length</b>	6 mm (0.2")	12 mm (0.5")	14.8 mm (0.6")
<b>Lens mount</b>	M12-mount, mechanical autofocus supported.		
<b>Lens cap</b>	Half polarized front cover by default. Polarized and transparent ones are optional.		
<b>Light source</b>	White light by default. Red/blue/IR light is optional.		
<b>Indicator</b>	Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (OK/NG)		
<b>Dimension</b>	65.2 mm $\times$ 65.2 mm $\times$ 47 mm (2.6" $\times$ 2.6" $\times$ 1.9")		
<b>Weight</b>	Approx. 280 g (0.6 lb.)		
<b>Ingress protection</b>	IP67 (under proper installation of waterproof lens cap)		
<b>Temperature</b>	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$ ) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$ )		
<b>Humidity</b>	20% to 95% RH, non-condensing		
<b>General</b>			
<b>Client software</b>	IDMVS		
<b>Certification</b>	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	
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	
14.8	600	256	204.8	0.2	0.6	
	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	

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