

MV-ID3030XM

3.1 MP Industrial Code Reader



C € RoHS

Introduction

With functions of image acquisition, code recognition and output, MV-ID3030XM industrial code reader can read different types of 1D codes and 2D codes with reading speed up to 90 codes/sec. It adopts Hikrobot's deep learning algorithm to process images with good robustness, and can recognize various complex codes.

Applicable Industry

Consumer electronics, lithium battery, tobacco, medicine, photovoltaics, automobile, PCB, etc.

Available Model

- 8 mm focal length: MV-ID3030XM-08M-RBN
- 12 mm focal length: MV-ID3030XM-12M-RBN
- 16 mm focal length: MV-ID3030XM-16M-RBN
- 25 mm focal length: MV-ID3030XM-25M-RBN

Key Feature

- Adopts built-in deep learning algorithm to read codes with good robustness.
- Adopts CMOS sensor to acquire highquality images.
- Supports one-key auto adjustment and easy to operate.
- Adopts multiple indicators displaying device status from different sides.
- Good environmental compatibility with Illuminating system.
- Adopts IO interfaces for input and output signals.
- Modularized light source design and easy to replace.

Note

- Do not directly touch cooling parts of the device to avoid scald.
- Looking directly at the device may cause harm to the eyes. Protective measures like wearing protective glasses should be taken in the process of installation, maintenance and debugging.



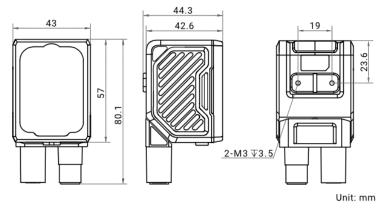
Specification

Model	MV-ID3030XM-08M-	MV-ID3030XM-12M-	MV-ID3030XM-16M-	MV-ID3030XM-25M-				
	RBN	RBN	RBN	RBN				
Performance								
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, ITF 14, ITF 25, MATRIX 25, UPCA,							
	UPCE, MSI, Code 11, Industrial 25, China Post, and Pharmacode							
	2D codes: QR Code, Data Matrix, and Micro QR							
	Stacked codes: PDF 417							
Max. frame rate	60 fps							
Max. reading	90 codes/sec							
speed	90 codes/ sec							
Sensor type	CMOS, global shutter							
Pixel size	3.45 μm × 3.45 μm							
Sensor size	1/1.8"							
Resolution	2048 × 1536							
Exposure time	6 μs to 30000 μs							
Gain	0 dB to 24 dB							
Mono/color	Mono							
Communication	SmartSDK TCD Client TC	CP Server, Serial, FTP, Profi	not MELSEC/SLMD Ethor	act/ID ModRus Fine LIDD				
protocol	Smartobit, For Chefft, To	or Server, Serial, 111, F1011	riet, MELSEG/SEMI, Ethen	iet/ ii , ivioabas, i iiis, obi				
Electrical feature								
Data interface	Fast Ethernet							
Digital I/O	12-pin M12 connector provides power and I/O, including opto-isolated input (LineIn 0/1/2) × 3, opto-							
	isolated output (LineOut 3/4/5) × 3, and RS-232 × 1.							
	Triggering the device is supported via pressing the top button.							
Power supply	24 VDC							
Max. power	6.2 W@24 VDC (self-light source enabled)							
consumption								
Mechanical	I		T	T				
Focal length	8 mm (0.3")	12 mm (0.5")	16 mm (0.6")	25 mm (1.0")				
Lens mount	M12-mount, mechanical							
Lens cap	Transparent + polarized -	<u>'</u>						
Light source	Red point light source + white diffused light source. White/blue/IR point light source is optional.							
Aiming system	Orange LED							
Indicator	Device body indicator, reading result indicator							
Dimension	Straight angle: 80.1 mm × 43 mm × 44.3 mm (3.2" × 1.7" × 1.7")							
	Right angle: 58.5 mm × 43 mm × 65.4 mm (2.3" × 1.7" × 2.6")							
Weight	Approx. 195 g (0.4 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	1							
Client software	IDMVS							
Certification	CE, RoHS, KC							

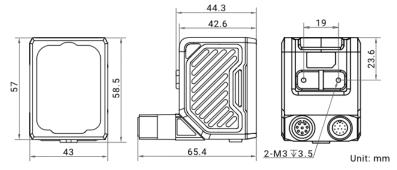
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Dimension

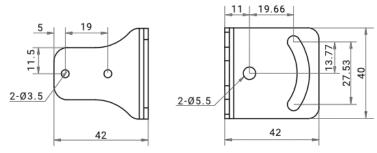
Device (Straight Angle):



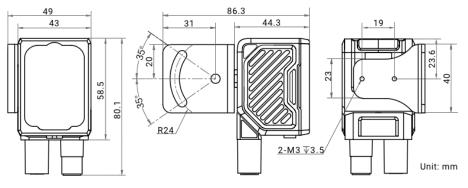
Device (Right Angle):

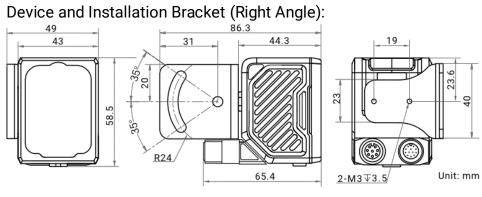


Installation Bracket:



Device and Installation Bracket (Straight Angle):

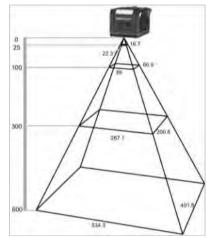




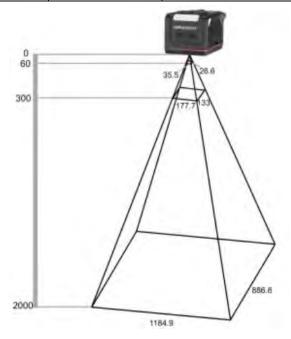


Detection Range

MV-ID3030XM (Unit: mm)					
Lens Focal	Working	FoV		1D Single Pixel Accuracy	2D Single Pixel Accuracy
Length	Distance	Н	V	1D Sillyle Pixel Accuracy	2D Single Fixel Accuracy
8	25	22.3	16.7	0.011	0.033
	100	89.0	66.9	0.043	0.131
	300	267.1	200.8	0.130	0.392
	600	534.3	401.5	0.261	0.784
	1000	883.2	662.4	0.400	1.300
	2000	1766.4	1324.8	0.900	2.600



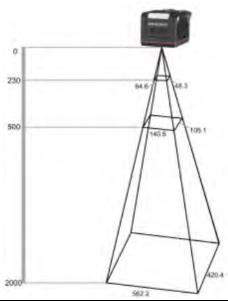
MV-ID3030XM (Unit: mm)					
Lens Focal	Working	FoV		1D Cingle Divel Acquirecy	2D Single Pixel Accuracy
Length	Distance	Н	V	1D Single Pixel Accuracy	2D Siligle Fixel Acculacy
12	60	35.5	26.6	0.017	0.052
	100	59.2	44.3	0.029	0.087
	300	177.7	133.0	0.087	0.260
	600	355.5	266.0	0.174	0.520
	1000	592.4	443.4	0.300	0.900
	2000	1184.9	886.8	0.600	1.700



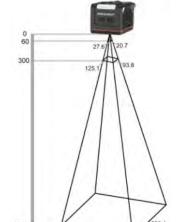
Detection Range



MV-ID3030XM (Unit: mm)					
Lens	Lens	FoV			
Focal	Working Distance	Н	V	1D Single Pixel Accuracy	2D Single Pixel Accuracy
25	230	64.6	48.3	0.032	0.094
	300	84.3	63.1	0.041	0.123
	500	140.5	105.1	0.069	0.205
	1000	281.1	210.2	0.100	0.400
	2000	562.2	420.4	0.300	0.800



MV-ID3016XM (Unit: mm)					
Lens Focal Length Working Distance	Working	FoV			
	Distance	н	v	1D Single Pixel Accuracy	2D Single Pixel Accuracy
16	60	27.6	20.7	0.013	0.040
	150	64.7	48.5	0.032	0.095
	300	125.1	93.8	0.061	0.183
	600	247.3	185.5	0.121	0.362
	1000	407.3	296.2	0.199	0.579
	2000	814.5	592.4	0.398	1.157



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