MV-ID5120M-00C-NNN

12 MP Smart Code Reader

Introduction

MV-ID5120M-00C-NNN 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 image 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.
- Supports code score and quality evaluation for code printing quality.
- Adopts controllable light source design providing diversified light.
- Supports multiple communication protocols, including TCP, Serial, FTP, Profinet, etc.

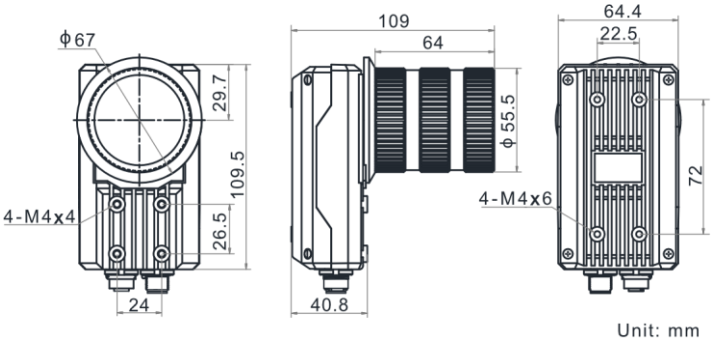
Available Model

MV-ID5120M-00C-NNN

Applicable Industry

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

Dimension

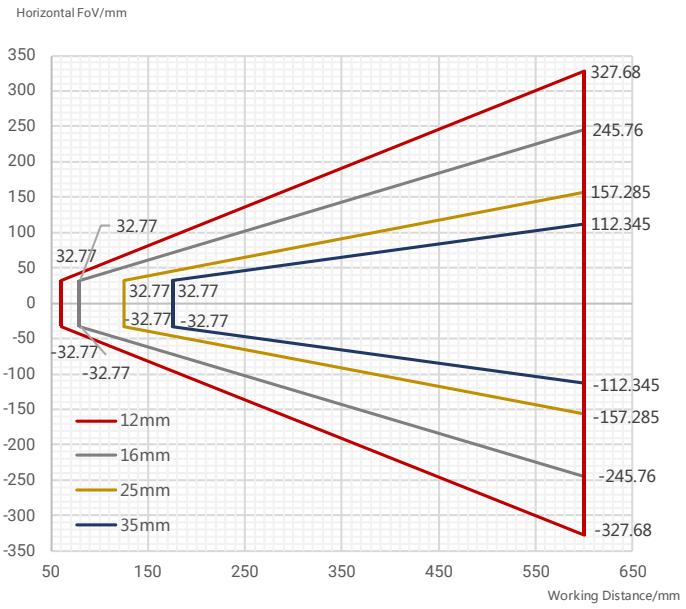


Specification

Model	MV-ID5120M-00C-NNN
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
	2-dimensional codes: QR Code, Data Matrix
	Stack codes: PDF 417
Max. frame rate	28 fps
Max. reading speed	84 codes/sec
Sensor type	CMOS, global shutter
Pixel size	3.2 μm × 3.2 μm
Sensor size	1"
Resolution	4096 × 3072
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, Ethernet/IP, MELSEC, Fins, ModBus, SLMP
Electrical feature	
Data interface	Gigabit 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, RS-232 input × 1, and RS-232 output × 1.
Power supply	12 VDC to 24 VDC
Max. power consumption	12 W@24 VDC
Mechanical	
Lens mount	C-mount
Light source	Not included
Lens cap	Transparent lens cap
Indicator	Power indicator (PWR), network indicator (LNK/ACT), and user-defined indicator (U1/U2).
Dimension	109.5 mm × 64.4 mm × 109 mm (4.3" × 2.5" × 4.3")
Weight	Approx. 470 g (1.0 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, FCC, RoHS, KC

Detection Range

MV-ID5120M-00C-NNN with MVL-KF12(/16/25/35)28M-12MP Lens (Unit: mm)						
Lens Focal Length	Working Distance	FoV		1D Single Pixel Accuracy	2D Single Pixel Accuracy	Horizontal FoV Diagram
		H	V			
12	60	65.54	49.15	0.016	0.048	
	100	109.23	81.92	0.027	0.080	
	200	218.45	163.84	0.053	0.160	
	300	327.68	245.76	0.080	0.240	
	400	436.91	327.68	0.107	0.320	
	500	546.13	409.6	0.133	0.400	
	600	655.36	491.52	0.160	0.480	
16	80	65.54	49.15	0.016	0.048	
	100	81.92	61.44	0.020	0.060	
	200	163.84	122.88	0.040	0.120	
	300	245.76	184.32	0.060	0.180	
	400	327.68	245.76	0.080	0.240	
	500	409.6	307.2	0.100	0.300	
	600	491.52	368.64	0.120	0.360	
25	125	65.54	49.15	0.016	0.048	
	200	104.86	78.64	0.026	0.077	
	300	157.29	117.96	0.038	0.115	
	400	209.72	157.29	0.051	0.154	
	500	262.14	196.61	0.064	0.192	
	600	314.57	235.93	0.077	0.230	
35	175	65.54	49.15	0.016	0.048	
	200	74.9	56.17	0.018	0.055	
	300	112.35	84.26	0.027	0.082	
	400	149.8	112.35	0.037	0.110	
	500	187.25	140.43	0.046	0.137	
	600	224.69	168.52	0.055	0.165	



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