

MV-ID5250PM-00C-NNN

25 MP Smart Code Reader



RoHS



Introduction

MV-ID5250PM-00C-NNN smart code reader can read different types of codes with reading speed up to 45 codes/sec. It adopts Hikrobot's deep learning algorithm to process image with good robustness, and can recognize various complex codes.

Available Model

MV-ID5250PM-00C-NNN

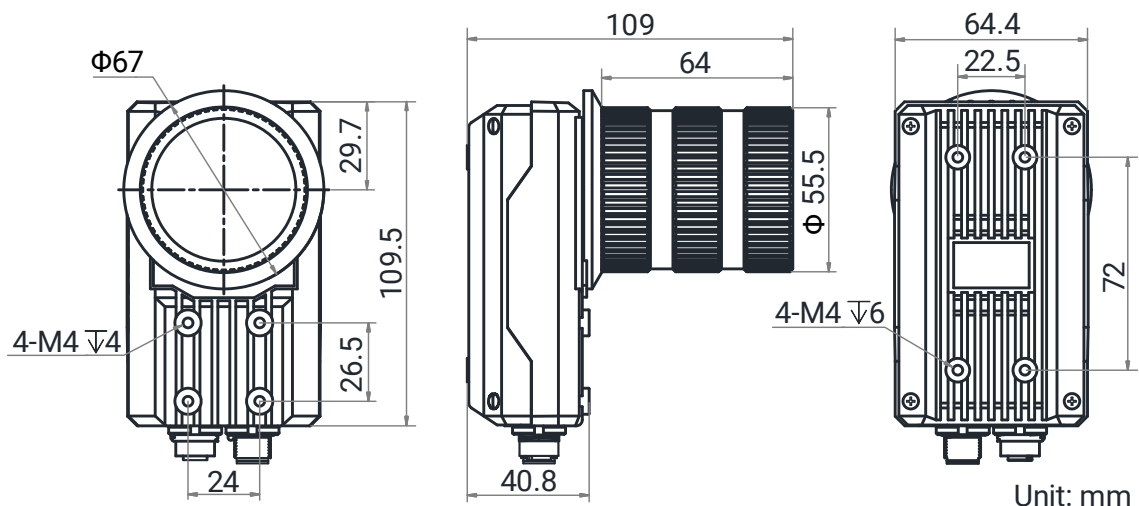
Applicable Industry

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

Key Feature

- Adopts CMOS global shutter sensor to provide high quality images.
- Adopts built-in deep learning algorithm to read codes with good robustness.
- Supports multiple communication protocols, including TCP Client, Serial, FTP, TCP Server, Profinet, Ethernet/IP, MELSEC, and Fins.
- Supports chessboard ROI and reading 200 two-dimensional codes at the same time.
- Supports ingress protection IP67.

Dimension



Specification

Model	MV-ID5250PM-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, Industrial25, PharmaCode
	2-dimensional codes: QR Code, Data Matrix, MicroQR, AZTEC, HANXIN
	Stack codes: PDF 417
Max. frame rate	15 fps
Max. reading speed	45 codes/sec
Sensor type	CMOS, global shutter
Pixel size	2.5 μm \times 2.5 μm
Sensor size	1.1"
Resolution	5120 \times 5120
Exposure time	16 μs to 0.5 sec
Gain	1 dB to 2.5 dB
Mono/color	Mono
Communication protocol	SmartSDK, TCP Client, Serial, FTP, TCP Server, Profinet, Ethernet/IP, MELSEC, Fins, ModBus, SLMP, UDP
Electrical feature	
Data interface	Gigabit Ethernet (1000 Mbit/s)
Digital I/O	12-pin M12 connector provides power and I/O, including opto-isolated input (LineIn 0/1/2) \times 3, opto-isolated output (LineOut 3/4/5) \times 3, RS-232 input \times 1, and RS-232 output \times 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 \times 64.4 mm \times 109 mm (4.3" \times 2.5" \times 4.3")
Weight	Approx. 470 g (1.0 lb.)
Ingress protection	IP67 (under proper installation of waterproof lens cap)
Temperature	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 $^{\circ}\text{F}$)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	IDMVS
Certification	CE, RoHS, KC

Detection Range

MV-ID5250PM-00C-NNN with MVL-KF12(16/25/35)28M-12MP Lens (Unit: mm)

Lens Focal Length	Working Distance	FoV		1D Min. Resolution	2D Min. Resolution	Horizontal FoV Diagram
		H	V			
12	60	64	64	0.013	0.038	
	100	106.67	106.67	0.021	0.063	
	200	213.33	213.33	0.042	0.125	
	300	320	320	0.063	0.188	
	400	426.67	426.67	0.083	0.250	
	500	533.33	533.33	0.104	0.313	
16	600	640	640	0.125	0.375	
	80	64	64	0.013	0.038	
	100	80	80	0.016	0.047	
	200	160	160	0.031	0.094	
	300	240	240	0.047	0.141	
	400	320	320	0.063	0.188	
25	500	400	400	0.078	0.234	
	600	480	480	0.094	0.281	
	125	64	64	0.013	0.038	
	200	102.4	102.4	0.020	0.060	
	300	153.6	153.6	0.030	0.090	
	400	204.8	204.8	0.040	0.120	
35	500	256	256	0.050	0.150	
	600	307.2	307.2	0.060	0.180	
	175	64	64	0.013	0.038	
	200	73.14	73.14	0.014	0.043	
	300	109.71	109.71	0.021	0.064	
	400	146.29	146.29	0.029	0.086	
35	500	182.86	182.86	0.036	0.107	
	600	219.43	219.43	0.043	0.129	

