

MV-ID803M-03S

0.3 MP Industrial Code Reader



RoHS



Introduction

MV-ID803M-03S industrial code reader adopts code reading algorithm and has good decoding capability for codes with spots, defects and low contrast ratio, and clear DPM code. It can read different types of 1D codes and 2D codes in the scenario of light industry, enterprise, retail, etc., and output results rapidly.

Available Model

- Non-polarized device with USB interface
MV-ID803M-03S-WBN-SR-U
- Polarized device with USB interface
MV-ID803M-03S-WBP-SR-U
- Non-polarized device with serial port
MV-ID803M-03S-WBN-SR-R
- Polarized device with serial port
MV-ID803M-03S-WBP-SR-R

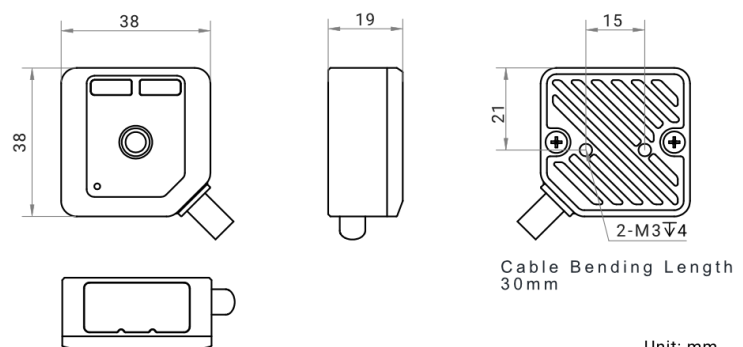
Applicable Industry

Intelligent manufacturing, retail, logistics, medical treatment, enterprise and public institutions, etc.

Key Features

- Compact design and small in size.
- Adopts code reading algorithm to read different types of 1D codes and 2D codes.
- Provides good robustness to read codes with spots, defects and low contrast ratio.
- Adopts orange circular aiming light to help aim codes.
- Adopts buzzer and status indicator for prompting the device's operation status.
- Supports multiple output modes of USB-HID, USB-CDC, RS-232, etc.

Dimension



Specification

Model	MV-ID803M-03S-WBN(P)-SR-U	MV-ID803M-03S-WBN(P)-SR-R
Performance		
Symbologies	1D codes: Code 39, Code 93, Code 128 (GS1-128 included), CodaBar, EAN 8, EAN 13, ITF 14, ITF 25, UPCA, and UPCE	
	2D codes: QR Code (GS1-QR included), Data Matrix (GS1-DM included), Micro QR Code, AZTEC, and Han Xin Code	
	Stacked codes: PDF 417	
Min. accuracy	1D codes: 6 mil	
	2D codes: 17 mil	
Max. frame rate	60 fps	
Max. reading speed	15 codes/sec	
Pixel size	3.7 μm × 3.7 μm	
Sensor size	1/6"	
Resolution	640 × 480	
Depth of field	EAN 13 (13 mil): 40 mm to 250 mm Code 39 (5 mil): 60 mm to 110 mm Code 128 (10 mil): 40 mm to 250 mm Data Matrix (10 mil): 50 mm to 140 mm QR Code (15 mil): 25 mil to 215 mm	
Exposure time	60 μs to 7000 μs	
Gain	1 dB to 15 dB	
Mono/color	Mono	
Communication protocol	SmartSDK, USB, Serial	
Electrical feature		
Data interface	USB2.0	RS-232
Digital I/O	Non-isolated input (LineIn 1) × 1, non-isolated output (LineOut 3) × 1, and configurable input/output (Line 2) × 1 Supports triggering via press top button	Non-isolated input (LineIn 1) × 1, non-isolated output (LineOut 3) × 1, configurable input/output (Line 2) × 1, and RS-232 × 1 Supports triggering via press top button
Power supply	5 VDC	12 VDC to 24 VDC
Max. power consumption	Approx. 2.5 W @ 5 VDC	Approx. 2.5 W @ 12 VDC
Mechanical		
Focal length	3.1 mm	
Lens mount	M10-mount	
Lens cap	Transparent lens cap and polarized lens cap are optional.	
Ambient illumination	0 lux to 100000 lux	

Specification

Light source	Warm white light source
Aiming system	Orange circular light
Status prompt	LED indicator, buzzer
Dimension	38 mm × 38 mm × 19 mm (1.5" × 1.5" × 0.7")
Weight	Approx. 40 g (0.1 lb.) (without cable)
Ingress protection	IP54
Temperature	Working temperature: -20 °C to 50 °C (-4 °F to 122 °F) Storage temperature: -40 °C to 70 °C (-40 °F to 158 °F)
Humidity	5% RH to 95% RH (no condensation)
General	
Client software	IDMVS
Certification	CE, RoHS, KC

Detection Range

Working Distance (mm)	Field of View		1D Min. Resolution (mm)*	2D Min. Resolution (mm)**
	H (mm)	V (mm)		
120	91.93	68.94	0.144	0.431
1D Min. Resolution (mm)*: Field of view (long side) / resolution (long side) × 1				
2D Min. Resolution (mm)**: Field of view (long side) / resolution (long side) × 3				

Note

The integrated cable of the device is a static cable by default that cannot be used in moving scene, such as drag chain. Therefore, it is recommended to fix the cable during installation.