

# MV-ID2004M

## 0.4 MP Smart Code Reader



### Introduction

ID2004M smart code reader can read different types of 1-dimensional and 2-dimensional codes, and its max. reading speed reaches 41 codes/sec (network device) and 38 codes/sec (USB device) respectively. It adopts deep learning algorithm to process images with good robustness, and can recognize various codes.

### Key Feature

- Built-in deep learning algorithm to read codes with good robustness.
- Compact design and small in size.
- Adopts aviation connector for single cable wiring.
- Adopts LED aiming light to help aim codes.
- Adopts focus knob for adjusting focusing manually.
- Adopts multiple IO interfaces and plug-in power interface.
- Supports multiple communication protocols, including TCP, Serial, FTP, Profinet, etc.

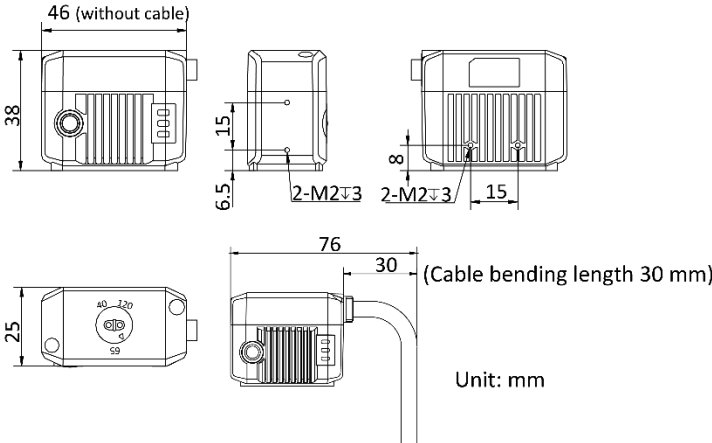
### Applicable Industry

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

### Available Model

- Red light source with network interface: ID2004M-06S-RBN
- Blue light source with network interface: ID2004M-06S-BBN
- White light source with network interface: ID2004M-06S-WBN
- Red light source with USB interface: ID2004M-06S-RBN-U
- Blue light source with USB interface: ID2004M-06S-BBN-U
- White light source with USB interface: ID2004M-06S-WBN-U

### Dimension



# Specification

Model	ID2004M-06S-*BN	ID2004M-06S-*BN-U
<b>Performance</b>		
<b>Symbologies</b>	1-dimensional codes: Code 39, Code 93, Code 128, ITF 14, ITF 25, CodaBar, EAN, UPCA, UPCE	
	2-dimensional codes: QR Code, Data Matrix	
<b>Max. frame rate</b>	60 fps	
<b>Max. reading speed</b>	41 codes/sec	38 codes/sec
<b>Sensor type</b>	CMOS, global shutter	
<b>Pixel size</b>	6.9 μm × 6.9 μm	
<b>Sensor size</b>	1/2.9"	
<b>Resolution</b>	704 × 540	
<b>Exposure time</b>	16 μs to 1 sec	
<b>Gain</b>	0 dB to 15 dB	
<b>Mono/color</b>	Mono	
<b>Communication protocol</b>	SmartSDK, TCP Client, Serial, FTP, HTTP, TCP Server, Profinet, MELSEC, Ethernet/IP, ModBus, UDP, Fins, SLMP	SmartSDK, USB
<b>Optics</b>		
<b>Focal length</b>	6 mm (0.2")	
<b>Working distance</b>	40 mm to 120 mm (1.6" to 4.7"), adjusting focus manually supported	
<b>Ambient illumination</b>	0 lux to 50000 lux	
<b>Light source</b>	Red LED, blue LED, white LED	
<b>Aiming system</b>	Green LED	
<b>Electrical feature</b>		
<b>Data interface</b>	Fast Ethernet	USB3.0
<b>Digital I/O</b>	17-pin M12 connector provides power and I/O, including configurable bi-directional none-isolated I/O × 4: input (Line 0/1) and output (Line 2/3) by default, RS-232 × 1. Device trigger via pressing button on side supported.	17-pin M12 connector provides data transmission. Device trigger via pressing button on side supported.
<b>Power supply</b>	12 VDC to 24 VDC	5 VDC (USB3.0 provides power supply)
<b>Max. power consumption</b>	Approx. 10.6 W@24 VDC	Approx. 4.6 W@5 VDC (USB3.0 provides power supply)
<b>Mechanical</b>		
<b>Indicator</b>	Power indicator (PWR), network indicator (LNK), and status indicator (STS).	
<b>Dimension</b>	46 mm × 38 mm × 25 mm (1.8" × 1.5" × 1.0")	
<b>Weight</b>	Approx. 160 g (0.35 lb.)	
<b>Ingress protection</b>	IP65	
<b>Temperature</b>	Working temperature: 0 °C to 50 °C (32 °F to 122 °F), storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)	
<b>Humidity</b>	20% to 95% RH, non-condensing	
<b>General</b>		
<b>Client software</b>	IDMVS	
<b>Certification</b>	CE, FCC, RoHS	