HIKROBOT®

MVGL-ID3144

1.6 MP Smart Code Reader

Introduction

MVGL-ID3144 smart code reader adopts Hikrobot's deep learning algorithm and can recognize and read different types of barcodes. It has good robustness and its max. process frame rate reaches 20 fps.

Key Feature

- Adopts CMOS sensor to acquire image data and provide high-quality image.
- Adopts built-in deep learning algorithm to read barcodes.
- Adopts multiple IO interfaces for input and output signals.
- Adopts OK/NG, PWR, STS and LNK indicators for displaying different statuses.
- Supports multiple communication protocols, including TCP/IP, Serial, FTP, Profinet, etc.
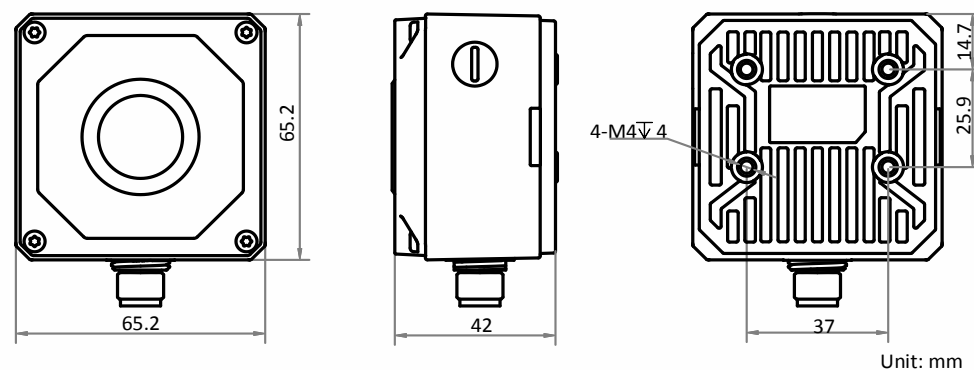
Available Model

- Smart code reader with 6 mm focal length: MVGL-ID3144-06SWN
- Smart code reader with 12.4 mm focal length: MVGL-ID3144-12SWN
- Smart code reader with 14.8 mm focal length: MVGL-ID3144-15SWN

Applicable Industry

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

Dimension

Unit: mm

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Specification

Model	MVGL-ID3144-06SWN	MVGL-ID3144-12SWN	MVGL-ID3144-15SWN
Performance			
Symbologies	1-dimensional code: Code 128, Code 39 2-dimensional code: QR, Data Matrix		
Max. frame rate	20 fps		
Max. reading speed	60 codes/sec		
Sensor type	CMOS, global shutter		
Pixel size	3.45 μm × 3.45 μm		
Sensor size	1/2.9"		
Resolution	1408 × 1024		
Exposure time	16 μs to 1 sec		
Gain	0 dB to 15 dB		
Mono/color	Mono		
Communication protocol	SmartSDK, TCP/IP, Serial, FTP, PROFINET		
Electrical features			
Interface	17-pin M12 interface provides power, Ethernet, digital IO, and serial port		
Ethernet	Fast Ethernet		
Digital IO	Non-isolated input × 3 (LineIn 0/1/2), non-isolated output × 3 (LineOut 0/1/2), RS-232 × 1. Device trigger via pressing button on top supported.		
Power supply	12 VDC to 24 VDC		
Power consumption	Approx. 19.8 W@24 VDC		
Mechanical			
Lens focal length	6 mm (0.2")	12.4 mm (0.5")	14.8 mm (0.6")
Lens mount	M12-mount, manual focus supported		
Lens cap	Transparent lens cap. Polarization lens cap supported		
Light source	Spotlight white light. Spotlight red or blue, wide-angle white or blue light supported		
Indicator	Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (OK/NG)		
Dimension	65.2 mm × 65.2 mm × 42 mm (2.6" x 2.6" x 1.7")		
Weight	Approx. 240 g (0.5 lb.)		
Ingress protection	IP67 (under proper installation of lens waterproof 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)		
Humidit	20% to 95% RH, non-condensing		
General			
Client software	IDMVS		