

MV-IDH7000

Wired Handheld Code Reader



Introduction

MV-IDH7000 wired handheld code reader decodes different types of 1D and 2D codes rapidly. With the built-in intelligent code reading algorithm, it can easily decoding codes with spots, defects and low contrast ratio, and entry level DPM codes. It adopts illumination system to provide direct lighting and diffused reflection lighting.

Available Model

- 1 MP, near distance, red light, with network interface:
MV-IDH7000/10NR/RN/L
- 1 MP, near distance, red light, with USB interface:
MV-IDH7000/10NR/RN/U

Applicable Industry

PCB, new energy, consumer electronics, semiconductor, automobile parts, etc.

Key Feature

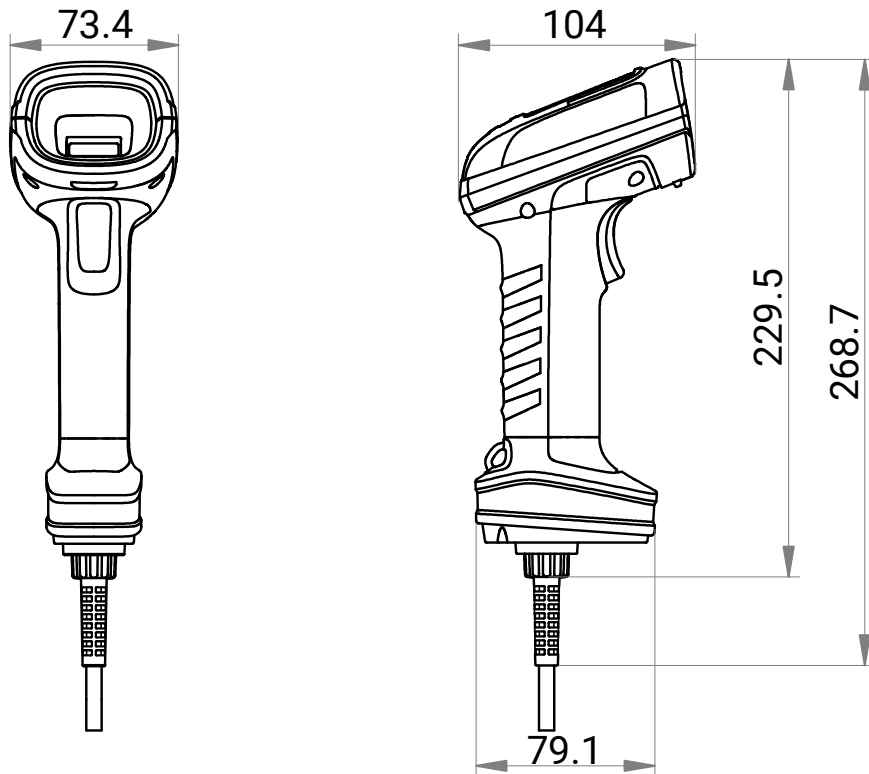
- Built-in code reading algorithm for decoding different types of 1D and 2D codes.
- Provides good robustness to read codes with spots, defects and low contrast ratio.
- Supports continuous code reading, batch code reading for improving code reading efficiency.
- Supports communication protocols, including TCP Client, Serial, FTP, Profinet, Ethernet/IP, MELSEC/SLMP, Fins, USB HID, and USB CDC.
- Adopts illumination system to provide direct lighting and diffused reflection lighting.
- Easy to replace components.
- IP65 and drop height of 1.8 m.

Model	MV-IDH7000/10NR/RN/L	MV-IDH7000/10NR/RN/U
Performance		
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN8, EAN13, Matrix 2 of 5, ITF14, UPCA, UPCE 2D codes: QR Code, Data Matrix	
Min. accuracy	3 mil	
Max. frame rate	50 fps	
Sensor type	CMOS, global shutter	
Pixel size	3 μm × 3 μm	
Sensor size	1/4"	
Resolution	1280 × 800	
Depth of field*	Code 39 (3 mil): 15 mm to 60 mm Code 39 (5 mil): 5 mm to 80 mm Data Matrix (5 mil): 10 mm to 70 mm Data Matrix (10 mil): 0 mm to 110 mm QR Code (5 mil): 10 mm to 70 mm	
Field of view	Horizontal 31°, vertical 20°	
Detection angle	Tilt angle ± 60°, skew angle ± 60°, rotation angle 360°	
Symbol contrast	20%	
Communication protocol	SmartSDK, TCP Client, FTP, HTTP, TCP Server, Profinet, MELSEC/SLMP, Ethernet/IP, Modbus, UDP, Fins, Serial	SmartSDK, USB (HID/CDC)
Electrical feature		
Data interface	Fast Ethernet (100 Mbit/s), RS-232	USB 2.0
Power supply	12 VDC to 24 VDC	
Max. power consumption	6 W @ 24 VDC	
Mechanical		
Focal length	6.7 mm	
Lens mount	M5.8-mount	
Ambient illumination	0 lux to 100000 lux	
Light source	Direct lighting: white LED Diffused reflection lighting: red LED	
Aiming system	Cross laser aiming	
Dimension	73.4 mm × 104 mm × 229.5 mm (2.9" × 4.1" × 9.0")	
Weight	Approx. 460 g (1.0 lb.)	
Ingress protection	IP65	
Temperature	Working temperature: -20 °C to 50 °C (-4 °F to 122 °F) Storage temperature: -30 °C to 60 °C (-22 °F to 140 °F)	
Humidity	20% RH to 95% RH (no condensation)	
Drop height	1.8 m	
General		
Client software	IDMVS	
Certification	CE, KC	

*Test condition: Environment temperature=25 °C (77 °F), ambient illumination=250 lux filament lamp, Hikrobot's test symbologies are used.

Laser Information of IDH 7000 Series Product	
Laser safety class	Laser 2
Wavelength	650 nm
Beam divergence angle	14.5°
Pulse width	8 ms
Repetitive frequency	50 Hz
Maximum power	5 mW

Dimension



Unit: mm