MV-IDH7010B

1 MP Wireless Handheld Code Reader

CE   FC

Introduction

MV-IDH7010B series wireless handheld code reader adopts code reading algorithm to provide good decoding capability for DPM. It can read different types of 1D and 2D codes, and output codes rapidly. It adopts illumination system to provide direct lighting and diffused reflection lighting. With adaptive smart bases, the device can realize charging and data communication.

Key Feature

- Adopts code reading algorithm to provide good decoding capability.
- Provides good robustness to read codes with spots, defects and low contrast radio.
- Adopts Bluetooth 5.0 wireless technology to provide convenient and efficient operations.
- With smart bases, parameter configuration and device management via IDMVS client software are supported.
- Adopts 3150 mAh battery to provide long battery life.
- Adopts illumination system to provide direct lighting and diffused reflection lighting.
- Supports IP65 and drop height of 1.8 m.

Available Model

- MV-IDH7010B-07-NR-U
- MV-IDH7010B-07-NR-L
- MV-IDH7010B-07HHD-U
- MV-IDH7010B-07HHD-L
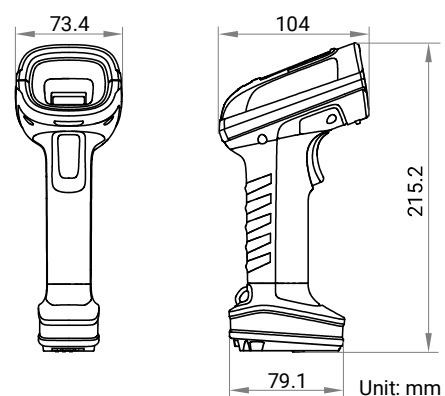- MV-IDH7010B-07ER-U

Applicable Industry

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

Accessories

- Smart base with network interface: MV-IBASE-01-01
- Smart base with USB interface: MV-IBASE-01-02

Dimension

73.4   104   215.2   79.1   Unit: mm

Specification

Model	MV-IDH7010B-07-NR-U	MV-IDH7010B-07-NR-L
Performance		
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, ITF 14, ITF 25, 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%	
Wireless communication		
Bluetooth	BT 5.0, 2.4 GHz to 2.4835 GHz, BLE	
Wireless range	100 m (open range)	
Electrical feature		
Battery	3150 mAh, lithium battery	
Charging time	Adapter charging: 4 h, USB charging: 8 h	
Number of scan	26000 times (full charging)	
Power supply	3.8 VDC (battery provides power)	
Max. power consumption	Standby mode: 1.1 W@3.8 VDC, working mode: 6.4 W@3.8 VDC, sleep mode: 0.8 W@3.8 VDC	
Mechanical		
Focal length	6.7 mm	
Lens mount	M5.8-mount	
Ambient illumination	0 lux to 100000 lux	
Light source	Direct: white LED; diffused reflection: red LED	
Aiming system	Cross laser aiming	
Prompt	LED indicator, buzzer, vibrator	
Dimension	73.4 mm × 104 mm × 215.2 mm (2.9" × 4.1" × 8.5")	
Weight	Approx. 410 g (0.9 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), charging temperature: 0 °C to 45 °C (32 °F to 113 °F)	
Humidity	20% to 95% RH, non-condensing	
Drop height	1.8 m (70.9")	
General		
Client software	IDMVS	
Certification	CE, FCC	

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

Specification

HIKROBOT

Model	MV-IDH7010B-07HHD-U	MV-IDH7010B-07HHD-L
Performance		
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, ITF 14, ITF 25, 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 (5 mil): 0 mm to 29 mm	
	Data Matrix (2 mil): 0 mm to 11 mm	
	Data Matrix (5 mil): 0 mm to 20 mm	
	QR Code (10 mil): 0 mm to 40 mm	
Field of view	Horizontal 31°, vertical 20°	
Detection angle	Tilt angle ± 60°, skew angle ± 60°, rotation angle 360°	
Symbol contrast	20%	
Wireless communication		
Bluetooth	BT 5.0, 2.4 GHz to 2.4835 GHz, BLE	
Wireless range	100 m (open range)	
Electrical feature		
Battery	3150 mAh, lithium battery	
Charging time	Adapter charging: 4 h, USB charging: 8 h	
Number of scan	26000 times (full charging)	
Power supply	3.8 VDC (battery provides power)	
Max. power consumption	Standby mode: 1.1 W@3.8 VDC, working mode: 6.4 W@3.8 VDC, sleep mode: 0.8 W@3.8 VDC	
Mechanical		
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Lens mount	M5.8-mount	
Ambient illumination	0 lux to 100000 lux	
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∗*(Test condition: Environment temperature=25 °C (77 °F), ambient illumination=250 lux filament lamp, Hikrobot's test symbologies are used.)*

HIKROBOT

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Performance	
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, ITF 14, ITF 25, UPCA, UPCE
	2D codes: QR Code, Data Matrix
Min. accuracy	1D codes: 5 mil, 2D codes: 10 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 (20 mil): 80 mm to 1000 mm
	Code 39 (100 mil): ** mm to 3000 mm
	Code 128 (5 mil): 180 mm to 270 mm
	Code 128 (15 mil): 100 mm to 800 mm
	Data Matrix (10 mil): 160 mm to 310 mm
	Data Matrix (160 mil): ** mm to 2700 mm
Field of view	Horizontal 31°, vertical 20°
Detection angle	Tilt angle ± 60°, skew angle ± 60°, rotation angle 360°
Symbol contrast	20%
Wireless communication	
Bluetooth	BT 5.0, 2.4 GHz to 2.4835 GHz, BLE
Wireless range	100 m (open range)
Electrical feature	
Battery	3150 mAh, lithium battery
Charging time	USB charging: 8 h
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Client software	IDMVS
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