

MV-IDH2000

Wired Handheld Code Reader



Introduction

MV-IDH2000 wired handheld code reader decodes different types of 1D and 2D codes rapidly. With the built-in intelligent code reading algorithm, it can easily decode codes with spots, defects and low contrast ratio, and entry level DPM codes.

Key Feature

- Built-in code reading algorithm for decoding different types of 1D codes and 2D codes.
- Provides good robustness to read codes with spots, defects and low contrast ratio.
- Supports multiple output modes, such as USB-HID, USB-CDC, and RS-232.
- Easy to replace components.
- IP42 and drop height of 1.8 m.
- Supports displaying device status via buzzer and indicator.

Available Model

- 0.3 MP, standard distance:
MV-IDH2000/03SR/03WN/U
- 1.3 MP, standard distance, with large field of view:
MV-IDH2000/13SR/04WN/U
- 1.3 MP, standard distance:
MV-IDH2000/13SR/05WN/U
- 1.3 MP, near distance:
MV-IDH2000/13NR/05WN/U

Applicable Industry

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

Specification

Model	MV-IDH2000/03SR/03WN/U
Performance	
Symbologies	1D codes: Code 39, Code 93, Code 128, GS1-Code128, CodaBar, EAN 8, EAN 13, ISBN, ISSN, ITF 25, ITF 14, UPCA, UPCE
	2D codes: QR Code, Data Matrix, MicroQR, Aztec
	Stacked code: PDF417
Min. accuracy	4 mil
Sensor type	CMOS
Resolution	640 × 480
Depth of field*	EAN 13 (13 mil): 30 mm to 240 mm Code 39 (5 mil): 50 mm to 100 mm Code 128 (10 mil): 30 mm to 240 mm Data Matrix (10 mil): 40 mm to 130 mm QR Code (15 mil): 15 mm to 205 mm
Field of view	Horizontal 42°, vertical 32°
Detection angle	Tilt angle ± 60°, skew angle ± 60°, rotation angle 360°
Symbol contrast	20%
Communication protocol	SmartSDK, Serial, USB (HID/CDC)
Electrical feature	
Data interface	USB 2.0
Power supply	5 VDC
Current consumption	0.9 A (max.), 0.5 A (typical)
Mechanical	
Focal length	3.1 mm
Ambient illumination	0 lux to 100000 lux
Light source	White LED
Aiming system	Orange LED
Prompt	LED indicator, buzzer, vibrator
Dimension	66.5 mm × 94 mm × 169.5 mm (2.6" × 3.7" × 6.7")
Weight	Approx. 160 g (0.4 lb.)
Ingress protection	IP42
Temperature	Working temperature: -10 °C to 50 °C (14 °F to 122 °F) Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)
Humidity	5% 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.

Specification

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Performance		
Symbologies	1D codes: Code 39, Code 93, Code 128, GS1-Code128, CodaBar, EAN 8, EAN 13, ISBN, ISSN, ITF 25, ITF 14, UPCA, UPCE	
	2D codes: QR Code, Data Matrix, MicroQR, Aztec	
	Stacked code: PDF417	
Min. accuracy	1D codes: 3 mil 2D codes: 4 mil	1D codes: 3 mil 2D codes: 5 mil
Sensor type	CMOS	
Resolution	1280 × 1024	
Depth of field*	Code 128 (3 mil): 30 mm to 110 mm Code 128 (10 mil): 20 mm to 205 mm Data Matrix (5 mil): 40 mm to 85 mm QR Code (10 mil): 20 mm to 140 mm QR Code (20 mil): 20 mm to 200 mm	Code 128 (3 mil): 70 mm to 160 mm Code 128 (10 mil): 30 mm to 440 mm QR Code (10 mil): 45 mm to 235 mm QR Code (15 mil): 20 mm to 360 mm QR Code (20 mil): 20 mm to 460 mm
Field of view	Horizontal 39°, vertical 29°	
Detection angle	Tilt angle ± 65°, skew angle ± 65°, rotation angle 360°	
Symbol contrast	20%	
Communication protocol	SmartSDK, Serial, USB (HID/CDC)	
Electrical feature		
Data interface	USB 2.0	
Power supply	5 VDC	
Current consumption	0.9 A (max.), 0.5 A (typical)	
Mechanical		
Focal length	4.9 mm	
Ambient illumination	0 lux to 100000 lux	
Light source	White LED	
Aiming system	Cross laser aiming	
Prompt	LED indicator, buzzer, vibrator	
Dimension	66.5 mm × 94 mm × 169.5 mm (2.6" × 3.7" × 6.7")	
Weight	Approx. 160 g (0.4 lb.)	
Ingress protection	IP42	
Temperature	Working temperature: -10 °C to 50 °C (14 °F to 122 °F) Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)	
Humidity	5% RH to 95% RH (no condensation)	
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	2D codes: QR Code, Data Matrix, MicroQR, Aztec
	Stacked code: PDF417
Min. accuracy	1D codes: 4 mil 2D codes: 5 mil
Sensor type	CMOS
Resolution	1280 × 1024
Depth of field*	Code 39 (5 mil): 45 mm to 175 mm Code 128 (10 mil): 10 mm to 415 mm QR Code (10 mil): 35 mm to 220 mm QR Code (15 mil): 10 mm to 350 mm QR Code (20 mil): 10 mm to 415 mm
Field of view	Horizontal 47°, vertical 39°
Detection angle	Tilt angle ± 65°, skew angle ± 65°, rotation angle 360°
Symbol contrast	20%
Communication protocol	SmartSDK, Serial, USB (HID/CDC)
Electrical feature	
Data interface	USB 2.0
Power supply	5 VDC
Current consumption	0.9 A (max.), 0.5 A (typical)
Mechanical	
Focal length	3.9 mm
Ambient illumination	0 lux to 100000 lux
Light source	White LED
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Laser Information of IDH 2000 Series Product

Laser safety class	Laser 2
Wavelength	650 nm
Pulse width	8 ms
Maximum power	1 mW

Dimension

