MV-IDH3013

1.3 MP Wired Handheld Code Reader

Introduction

MV-IDH3013 wired handheld code reader adopts code reading algorithm and can read different types of 1D and 2D codes, and output results rapidly. It has good decoding capability for codes with spots, defects and low contrast radio, and entry level DPM code.

Key Feature

- Adopts code reading algorithm to read different types of 1D and 2D codes.
- Provides good robustness to read codes with spots, defects and low contrast radio.
- Supports continuous code reading, batch code reading for improving code reading efficiency.
- Supports multiple communication protocols, including TCP, Serial, FTP, UDP, USB HID, etc.
- Easy to replace components.

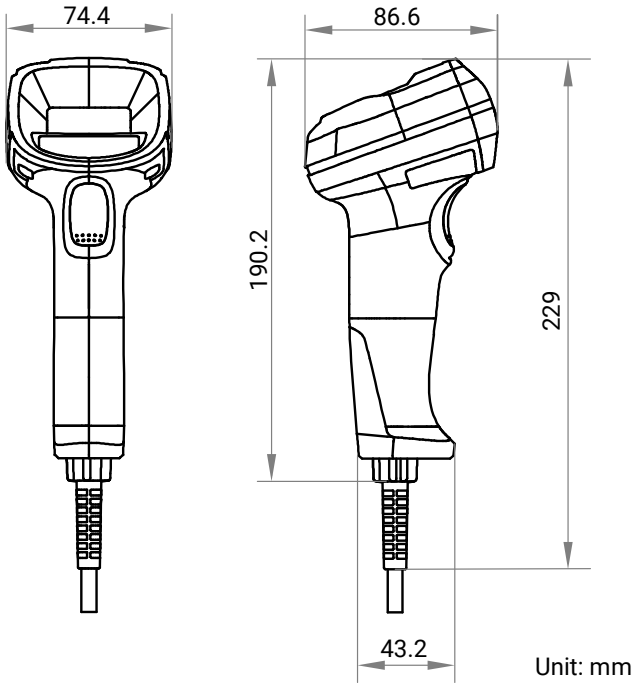
Applicable Industry

Consumer electronics, medical treatment, appliance manufacturing, etc.

Available Model

- MV-IDH3013-05N-R1L
- MV-IDH3013-05N-R1L-IP
- MV-IDH3013-05S-R1L
- MV-IDH3013-05S-R1L-IP
- MV-IDH3013-05S-W1L
- MV-IDH3013-05N-R1U
- MV-IDH3013-05S-R1U
- MV-IDH3013-05S-W1U
- MV-IDH3013-05S-W1L-P
- MV-IDH3013-05S-W1U-P

Dimension



Specification

Model	MV-IDH3013-05N-R1L(U)	MV-IDH3013-05S-R1L(U)	MV-IDH3013-SU-AGV	MV-IDH3013-05S-W1L(U)
Performance				
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, Matrix 2 of 5, ITF 14, UPCA, and UPCE			
	2D codes: QR Code, Data Matrix			
Min. accuracy	3 mil	4 mil		
Max. frame rate	50 fps			
Sensor type	CMOS, global shutter			
Pixel size	3 μm × 3 μm			
Sensor size	1/4"			
Resolution	1280 × 1024			
Depth of field*	Code 128 (3 mil): 25 mm to 70 mm Code 128 (10 mil): 10 mm to 170 mm Code 39 (5 mil): 15 mm to 100 mm Data Matrix (5 mil): 30 mm to 60 mm Data Matrix (10 mil): 5 mm to 115 mm	Code 39 (5 mil): 40 mm to 160 mm Code 128 (10 mil): 10 mm to 400 mm Data Matrix (10 mil): 30 mm to 200 mm QR Code (15 mil): 15 mm to 280 mm QR Code (20 mil): 20 mm to 370 mm		
Field of view	Horizontal 40°, vertical 34°			
Detection angle	Tilt angle ± 60°, skew angle ± 60°, rotation angle 360°			
Symbol contrast	20%			
Communication protocol	Fast Ethernet type device: SmartSDK, TCP Client, FTP, TCP Server, UDP, Serial USB type device: SmartSDK, USB (HID/CDC)			
Electrical feature				
Data interface	Fast Ethernet type device: Fast Ethernet, RS-232, DC terminal USB type device: USB2.0, DC terminal			
Power supply	Fast Ethernet type device: 12 VDC to 24 VDC USB type device: 5 VDC (USB), 12 VDC to 24 VDC (DC terminal)			
Max. power consumption	Fast Ethernet type device: 1.8 W@12 VDC USB type device: 1.5 W@5 VDC (USB), 1.8 W@12 VDC (DC terminal)			
Mechanical				
Focal length	4.7 mm			
Lens mount	M5.8-mount			
Ambient illumination	0 lux to 100000 lux			
Light source	Red LED			White LED
Aiming system	Cross laser aiming			
Prompt	LED indicator, buzzer, vibrator			
Dimension	74.4 mm × 86.6 mm × 190.2 mm (2.9" × 3.4" × 7.5")			
Weight	Approx. 160 g (0.4 lb.)			
Ingress protection	IP42			
Temperature	Working temperature: -20 °C to 50 °C (-4 °F to 122 °F) storage temperature: -40 °C to 70 °C (-40°F to 158 °F)			
Humidity	20% to 80% RH, non-condensing			
Drop height	1.5 m (59.1"), 50 times			
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

Model	MV-IDH3013-05N-R1L-IP	MV-IDH3013-05S-R1L-IP
Performance		
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, Matrix 2 of 5, ITF 14, UPCA, and UPCE	
	2D codes: QR Code, Data Matrix	
Min. accuracy	3 mil	4 mil
Max. frame rate	50 fps	
Sensor type	CMOS, global shutter	
Pixel size	3 μm × 3 μm	
Sensor size	1/4"	
Resolution	1280 × 1024	
Depth of field*	Code 128 (3 mil): 25 mm to 70 mm Code 128 (10 mil): 10 mm to 170 mm Code 39 (5 mil): 15 mm to 100 mm Data Matrix (5 mil): 30 mm to 60 mm Data Matrix (10 mil): 5 mm to 115 mm	Code 39 (5 mil): 40 mm to 160 mm Code 128 (10 mil): 10 mm to 400 mm Data Matrix (10 mil): 30 mm to 200 mm QR Code (15 mil): 15 mm to 280 mm QR Code (20 mil): 20 mm to 370 mm
Field of view	Horizontal 40°, vertical 34°	
Detection angle	Tilt angle ± 60°, skew angle ± 60°, rotation angle 360°	
Symbol contrast	20%	
Communication protocol	Fast Ethernet type device: SmartSDK, TCP Client, FTP, TCP Server, UDP, Serial, Ethernet/IP, Profinet, Modbus USB type device: SmartSDK, USB (HID/CDC)	
Electrical feature		
Data interface	Fast Ethernet type device: Fast Ethernet, RS-232, DC terminal USB type device: USB2.0, DC terminal	
Power supply	Fast Ethernet type device: 12 VDC to 24 VDC USB type device: 5 VDC (USB), 12 VDC to 24 VDC (DC terminal)	
Max. power consumption	Fast Ethernet type device: 1.8 W@12 VDC USB type device: 1.5 W@5 VDC (USB), 1.8 W@12 VDC (DC terminal)	
Mechanical		
Focal length	4.7 mm	
Lens mount	M5.8-mount	
Ambient illumination	0 lux to 100000 lux	
Light source	Red LED	
Aiming system	Cross laser aiming	
Prompt	LED indicator, buzzer, vibrator	
Dimension	74.4 mm × 86.6 mm × 190.2 mm (2.9" × 3.4" × 7.5")	
Weight	Approx. 160 g (0.4 lb.)	
Ingress protection	IP42	
Temperature	Working temperature: -20 °C to 50 °C (-4 °F to 122 °F) storage temperature: -40 °C to 70 °C (-40°F to 158 °F)	
Humidity	20% to 80% RH, non-condensing	
Drop height	1.5 m (59.1"), 50 times	
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

Model	MV-IDH3013-05S-W1L-P	MV-IDH3013-05S-W1U-P
Performance		
Symbologies	1D codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, Matrix 2 of 5, ITF 14, UPCA, and UPCE	
	2D codes: QR Code, Data Matrix	
Min. accuracy	4 mil	
Max. frame rate	50 fps	
Sensor type	CMOS, global shutter	
Pixel size	2.7 μm × 2.7 μm	
Sensor size	1/4"	
Resolution	1280 × 1024	
Depth of field*	Code 39 (5 mil): 40 mm to 160 mm Code 128 (10 mil): 10 mm to 400 mm Data Matrix (10 mil): 30 mm to 200 mm QR Code (15 mil): 15 mm to 280 mm QR Code (20 mil): 20 mm to 370 mm	
Field of view	Horizontal 40°, vertical 34°	
Detection angle	Tilt angle ± 60°, skew angle ± 60°, rotation angle 360°	
Symbol contrast	20%	
Communication protocol	Fast Ethernet type device: SmartSDK, TCP Client, FTP, TCP Server, UDP, Serial, Ethernet/IP, Profinet, Modbus USB type device: SmartSDK, USB (HID/CDC)	
Electrical feature		
Data interface	Fast Ethernet type device: Fast Ethernet, RS-232, DC terminal USB type device: USB2.0, DC terminal	
Power supply	Fast Ethernet type device: 12 VDC to 24 VDC USB type device: 5 VDC (USB), 12 VDC to 24 VDC (DC terminal)	
Max. power consumption	Fast Ethernet type device: 1.8 W@12 VDC USB type device: 1.5 W@5 VDC (USB), 1.8 W@12 VDC (DC terminal)	
Mechanical		
Focal length	4.7 mm	
Lens mount	M5.8-mount	
Ambient illumination	0 lux to 100000 lux	
Light source	White LED	
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Temperature	Working temperature: -20 °C to 50 °C (-4 °F to 122 °F) storage temperature: -40 °C to 70 °C (-40°F to 158 °F)	
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Drop height	1.5 m (59.1"), 50 times	

Specification

General	
Client software	IDMVS
Certification	CE, KC

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