MV-IDH5010-05

1Million Pixel Industrial Handheld Barcode Reader

The MV-IDH5010-05 wired industrial handheld code reader can efficiently read one-dimensional and two-dimensional codes in industrial scenes, and has excellent decoding capabilities for DPM. At the same time, it adopts a fully self-developed deep learning algorithm, which is robust. Provide red and white light sources in two colors, which can be selected according to different application scenarios.

CE   FC   RoHS

Main Features：

- Using self-developed high-performance barcode recognition algorithm, it can efficiently read one-dimensional and two-dimensional codes in industrial scenes
- The algorithm is robust and can effectively cope with the situation of dirty, defective, low-contrast barcodes, etc.
- Support continuous code reading and batch reading mode, greatly improving the reading efficiency of multi-code scenes
- Support TCP/IP, Serial, FTP, Profinet, Ethernet/IP, MELSEC, Fins and other transmission protocols
- Multi-light source lighting system, which can intelligently switch between red and white light sources
- IP67 Rated and up to 1.8 meters drop height protection which suitable for harsh industrial application environment

Ordering Part no：

Close Range, USB： MV-IDH5010-05-NR-U

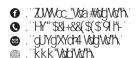Standard Range, USB： MV-IDH5010-05-SR-U

Close Range, GigE： MV-IDH5010-05-NR-L

Standard Range, GigE： MV-IDH5010-05-SR-L

Application industry:

PCB, New energy, 3C, Electronic semiconductor, Auto parts and other industries

CDG | Computer Peripheral and Supplies Ltd.

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Specification

Model	MV-IDH5010-05-NR	MV-IDH5010-05-SR
Specs	1Million Pixel Industrial Handheld Barcode Reader	
Performances		
Type of Codes	1D：Code 39, Code 93, Code 128, CodaBar, EAN8, EAN13, ITF25, ITF14, UPCA, UPCE and etc. 2D：QR, DataMatrix and etc.	
Min.barcode accuracy	3 mil	
Maximum 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*	Code39（3 mil）：35～70 mm Code128（5 mil）：25～80 mm Code128（10 mil）：15～120 mm DM（5 mil）：40～70 mm DM（10 mil）：15～90 mm QR（5 mil）：35～75 mm QR（10 mil）：15～100 mm	Code39（5 mil）：85～175 mm Code128（5 mil）：75～185 mm Code128（10 mil）：25～320 mm DM（10 mil）：70～215 mm QR（10 mil）：55～215 mm QR（20 mil）：25～380 mm
Field of View (Angle)	Horizontal 42°, vertical 28°	
Detection angle	Tilt angle ±60°, deflection angle ±60°, rotation angle 360°	
Sign contrast	15 %	
Communication Protocol	USB：SmartSDK，USB GigE：SmartSDK，TCP Client，Serial，FTP，HTTP，TCP Server， Profinet，MELSEC， Ethernet/IP，ModBus，UDP，Fins，SLMP	
Optics		
Focal Length	5 mm	
Focus Position	70 mm	120 mm
Ambient light	0 ～ 100000 lux	
Light source	1 white LED light, 2 red LED lights	
Sight	Cross laser aiming	
Electrical characteristics		
Interface	USB：USB3.0	

Structure	
Dimensions	169.4 mm × 73.8 mm × 104.6 mm
Weight	约 450 g
IP Protection Level	IP65
Temperature	Working temperature -20 ~ 50℃, Storage temperature -30 ~ 70℃
Humidity	20% ~ 95%RH non-condensing
Drop height	1.8 m
General Specification	
Software	IDMVS
Certification	CE、FCC

*Test conditions: Ambient temperature=25℃; Ambient illuminance=250 lux incandescent lamp; use the test sample code

Dimensions：

73.8

104.6

169.4

Unit:mm