

MV-IDH7000P

1 MP Handheld Code Reader



Introduction

IDH7000P series wired handheld code reader adopts code reading algorithm to provide good decoding capability for DPM. It can read different types of one-dimensional and two-dimensional codes, and output codes rapidly.

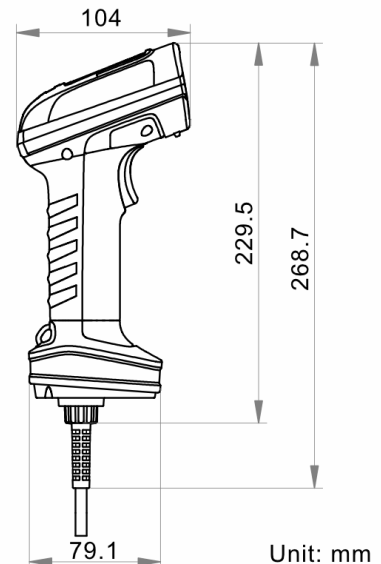
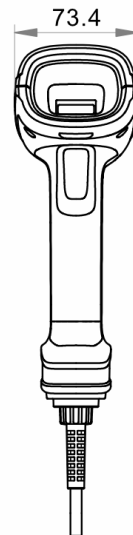
Key Feature

- Adopts code reading algorithm to provide good decoding capability.
- 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, Profinet, etc.
- Adopts illumination system to provide direct lighting and diffused reflection lighting.
- Supports IP65 and drop height of 1.8 m.

Available Model

- Fast Ethernet type: MV-IDH7010P-07-SR-L
- USB2.0 type: MV-IDH7010P-07-SR-U

Dimension



Applicable Industry

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

Specification

| Model | MV-IDH7010P-07-SR-L | MV-IDH7010P-07-SR-U |
|-------------------------------|--|--|
| Performance | | |
| Symbologies | 1-dimensional codes: Code 39, Code 93, Code 128, CodaBar, EAN 8, EAN 13, ITF 14, ITF 25, UPCA, UPCE | |
| | 2-dimensional codes: QR Code, Data Matrix | |
| Min. accuracy | 3 mil | |
| Max. frame rate | 50 fps | |
| Sensor type | CMOS, global shutter | |
| Pixel size | 3 μm \times 3 μm | |
| Sensor size | 1/4" | |
| Resolution | 1280 \times 800 | |
| Depth of field* | Code 39 (5 mil): 30 mm-200 mm, Code 128 (3 mil): 55 mm-110 mm, Code 128 (20 mil): 56 mm-660 mm, Data Matrix (10 mil): 20 mm-220 mm, QR Code (10 mil): 20 mm-220 mm, QR Code (20 mil): 10 mm-450 mm | |
| Field of view | Horizontal 31°, vertical 20° | |
| Detection angle | Tilt angle \pm 60°, skew angle \pm 60°, rotation angle 360° | |
| Symbol contrast | 20% | |
| Communication protocol | SmartSDK, TCP, FTP, HTTP, MELSEC/SLMP, Profinet, Ethernet/IP, ModBus, UDP, Fins, Serial | SmartSDK, USB-HID, USB-CDC |
| Electrical feature | | |
| Data interface | Fast Ethernet, RS-232, DC terminal | USB2.0, DC terminal |
| Power supply | 12 VDC to 24 VDC | USB2.0: 5 VDC DC terminal: 12 VDC to 24 VDC |
| Max. power consumption | 6 W@24 VDC | USB2.0: 4.6 W@5 VDC DC terminal: 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: white LED; diffused reflection: red LED | |
| Aiming system | Cross laser aiming | |
| Dimension | 73.4 mm \times 104 mm \times 229.5 mm (2.9" \times 4.1" \times 9.0") | |
| Weight | Approx. 460 g (1.0 lb.) | |
| Ingress protection | IP65 | |
| Temperature | Working temperature: -20 °C to 50 °C, storage temperature: -30 °C to 70 °C | |
| 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.