

MicroHAWK Barcode Reader

Product Guide



Overview

Omron MicroHAWK barcode reader family sets the benchmark in auto ID technology, bringing the age of usability and simple, open connectivity to industrial barcode reading. Built on the smallest, highest-performing imaging engine of its class, plus two new micro-form-factor barcode reader models that can be configured with the exact features needed to meet performance requirements and price point.

Regardless of control hardware or connectivity, MicroHAWK devices come together on an intuitive platform that features the web-browser-based barcode setup and control interface: WebLink.

Applications

- Automotive powertrain assembly and test
- Clinical or laboratory instrumentation
- Food, beverage and consumer goods packaging and logistics
- Printed circuits assembly and test
- General manufacturing

Primary Benefits

- OEE measurement and process optimization
- Regulatory compliance via barcoding on labels and direct part marked products
- Automation and accuracy assurance of laboratory samples
- Raw material inventory optimization
- Anti-counterfeiting via serialization

Key features

- Extremely compact design
- IP67 protection category
- Auto-focus lens, with up to 5MP resolution
- Ethernet connectivity, PoE, and daisy chain of multiple readers
- WebLink browser based configuration and monitoring
- Integrated LED lighting with high intensity ring light option
- Advanced X-Mode decoding algorithms
- Ability to use as both a barcode reader and vision inspection system

MicroHAWK Product Selection



Model	ID-20, MV-20	V320, F320	V330, F330	V420, F420	V430, F430
Barcode Symbol Types	1D, 2D, Direct Part Marks	1D, 2D, Direct Part Marks	1D, 2D, Direct Part Marks	1D, 2D, Direct Part Marks	1D, 2D, Direct Part Marks
Sensors	0.3MP, 1.2MP, 5MP	0.3MP, 1.2MP, 5MP	0.3MP, 1.2MP, 5MP	0.3MP, 1.2MP, 5MP	0.3MP, 1.2MP, 5MP
Illumination Standard	8 LED White/Red	8 LED White/Red	8 LED White/Red	8 LED White/Red	8 LED White/Red
Illumination Optional	N/A	N/A	N/A	8 LED, White, Red, Blue, IR	8 LED, White, Red, Blue, IR, Ring Light
Lens	Fixed focus	Fixed focus	Fixed focus	Fixed focus, Autofocus	Fixed focus, Autofocus
I/O		N/A	N/A	3 inputs/3 outputs	3 inputs/3 outputs
Communication	USB 2.0 High Speed Ethernet over USB/HID	RS-232 USB 2.0 Full-Speed (Ethernet over USB and HID)	Ethernet TCP/IP EtherNet/IP PROFINET	RS-232C USB 2.0 High Speed Ethernet over USB/HID	RS-232C Ethernet TCP/IP EtherNet/IP PROFINET
Environmental Protection	IP40	IP40	IP40	IP54	IP65/67
Optional Vision Software	AutoVision, Visionscape	AutoVision, Visionscape	AutoVision, Visionscape	AutoVision, Visionscape	AutoVision, Visionscape

Optics and Lighting Accessories

Type	Description	Kit Part Number
ID/MV-20 Window Kits	Kit, Diffuser, MicroHAWK ID/MV-20	98-9000077-01
	Kit, Polarizer, MicroHAWK ID/MV-20	98-9000062-01
V/F330-F and V/F320-F Window Kits	Kit, Diffuser, MicroHAWK V/F330	V330-AF1
	Kit, Polarizer, MicroHAWK V/F330	V330-AF2
V/F430-F and V/F420 Window Kits	Kit, Window, V/F4XX	V430-AF10
	Kit, Diffuser, V/F4XX	V430-AF11
	Kit, Polarizer, V/F4XX	V430-AF12
	Kit, YAG Filter, V/F4XX	V430-AF4
	Kit, ESD Window, V/F4XX	V430-AF5
	Kit, Red Filter, V/F4XX	V430-AF6
	Kit, Blue Filter, V/F4XX	V430-AF7
V/F430-F and V/F420-F LED Kits	Kit, Red LED, V/F4XX	V430-ALR
	Kit, White LED, V/F4XX	V430-ALW
	Kit, Blue LED, V/F4XX	V430-ALB
	Kit, IR LED, V/F4XX	V430-ALI
V/F430-F with Ring Light Window Kits	Kit, Window, RING LT, F/V430	V430-AF0R
	Kit, Diffuser, RING LT, F/V430	V430-AF1R
	Kit Polarizer, RING LT, F/V430	V430-AF2R
V/F430-F with Ring Light LED Kits	Kit, Red LED, RING LT, F/V430	V430-ALRR
	Kit, White LED, RING LT, F/V430	V430-ALWR
	Kit, Blue LED, RING LT, F/V430	V430-ALBR
	Kit, IR LED, Ring LT, F/V430	V430-ALIR