

MicroHAWK V430-F

Autofocus Multicode Reader

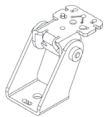
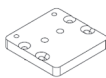
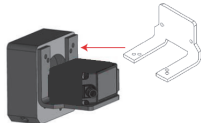
Autofocus to read codes at different distances.

- Simple configuration with WebLink.
- 5 megapixel sensor available.
- Autofocus available.
- Alternate LED configuration available.
- Smallest in class.
- IP65 / IP67.
- Ethernet TCP/IP, EtherNet/IP, and PROFINET.

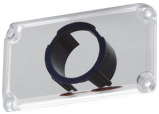
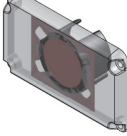
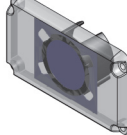


MicroHAWK V430-F

Mounting Options

Appearance	Type	Part Number
	L Bracket Adjustable Angle Mounting Kit	V430-AM0
	1/4-20 Camera Mounting Block Kit	V430-AM1
	4" (102 mm) Ram Mount Stand	V430-AM2
	APG Pan and Tilt Camera Mount	V430-AM3
	Nylon Screw and Washer Electrical Isolation Mounting Kit	V430-AM4
	MS-4 / MINI to V/F4XX-F Adapter Plate	V430-AM5
	Smart Ring Light to V/F4XX-F Mounting Bracket	V430-AM6
	QX / Vision HAWK to V/F4XX-F Adapter Plate	V430-AM7

Optics Options

Appearance	Type	Part Number
	Front Window Installation Kit	V430-AF10 *
	Diffuser Installation Kit	V430-AF11 *
	Polarizer Installation Kit	V430-AF12 *
	Right Angle Mirror Installation Kit	V430-AF3
	YAG Filter Installation Kit	V430-AF4
	ESD-Safe Window Installation Kit	V430-AF5
	Red Filter Installation Kit	V430-AF6
	Blue Filter Installation Kit	V430-AF7

* Note: V430-AF10, AF11, and AF12 are used for **MicroHAWK V/F4X0-FXXXXXXX-XXX** readers in this datasheet. The prior generation **MicroHAWK V430-FXXXXXXX** code reader uses part numbers V430-AF0, AF1, and AF2. Please select the correct accessory from the table based on your camera part number format.

Accessory	Prior V430-FXXXXXXX Code Reader	New V/F4X0-FXXXXXXX-XXX Code Reader and Smart Camera
Front Window Installation Kit	V430-AF0	V430-AF10
Diffuser Installation Kit	V430-AF1	V430-AF11
Polarizer Installation Kit	V430-AF2	V430-AF12

Additional Optics Options

Product	Appearance	Type	Part Number
V430-F Window Kits 		Front Window Installation Kit	V430-AF0R
		Diffuser Installation Kit	V430-AF1R
		Polarizer Installation Kit	V430-AF2R

Front Window Installation Kit
V430-AF0R

Diffuser Installation Kit
V430-AF1R

Polarizer Installation Kit
V430-AF2R

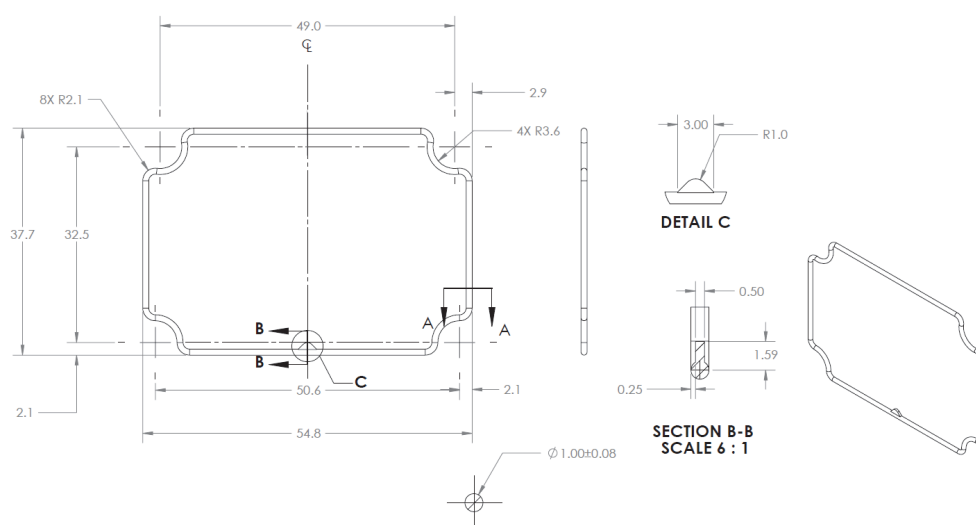
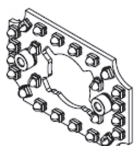


Red Ring Light Installation Kit
V430-ALRR

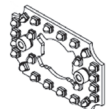
White Ring Light Installation Kit
V430-ALWR

Blue Ring Light Installation Kit
V430-ALBR

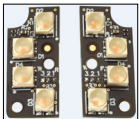
IR Ring Light Installation Kit
V430-ALIR



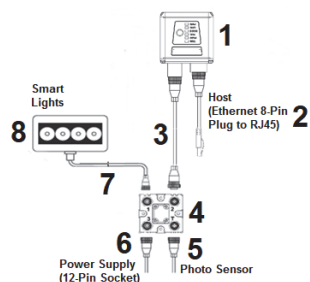
Lighting Options

Product	Appearance	Type	Part Number
V430-F Ring Light Kits 		Red Ring Light Installation Kit	V430-ALRR
		White Ring Light Installation Kit	V430-ALWR
		Blue Ring Light Installation Kit	V430-ALBR
		IR Ring Light Installation Kit	V430-ALIR

Additional Lighting Options

Appearance	Type	Part Number
	Red Light Installation Kit	V430-ALR
	White Light Installation Kit	V430-ALW
	Blue Light Installation Kit	V430-ALB
	IR Light Installation Kit	V430-ALI

Wiring Options



Drawing Reference	Appearance	Category	Length / Spec	Part Number
2		Ethernet Communication Cables – Straight Connectors M12 Plug on Camera to RJ45 Connector	1 Meter	V430-WE-1M
			3 Meters	V430-WE-3M
			5 Meters	V430-WE-5M
		Ethernet Communication Cables – Right Angle M12 Connectors* M12 Plug on Camera to RJ45 Connector	3 Meters – Right Angle Up*	V430-WELU-3M
			3 Meters – Right Angle Down*	V430-WELD-3M
		Camera to QX-1 Interconnect Cables M12 Socket to M12 Plug QX-1 is used as breakout module for common IO signals and power.	1 Meter	V430-WQ-1M
3		M12 Socket to M12 Plug, with Power Filter	300 mm	V430-WQF-1M
			3 Meters	V430-WQ-3M
		Camera to QX-1 Interconnect Cables M12 Socket to M12 Plug QX-1 is used as breakout module for common IO signals and power.	5 Meters	V430-WQ-5M
4		QX-1 Interconnect Module – Power, Trigger, Smart Light Control Breakout		98-000103-02
5		QX-1 Photo Sensor, M12 4-Pin Plug, NPN	2 Meters – Light ON/ Dark ON	99-9000016-01
		QX-1 Field-Wireable M12 4-Pin Plug for Any Trigger Source or Photo Sensor	Screw Terminals	98-9000239-01
6		Power Supply, 100-240VAC, +24VDC, M12 12-Pin Socket	1 Meter US/Euro Plug	97-000012-01
7		QX-1 M12 to Smart Light Power and Strobe Control Cables M12 Plug on QX-1 to 5 Pin Socket on light	3 Meters – Continuous Power	61-000204-01
			3 Meters – Strobe Control	61-000218-01
8		Omron Microscan Smart Light Series	Integrated Power and Strobe Control Module	See Omron Microscan Smart Light Offering - Ring, DOAL, Large Area Lighting

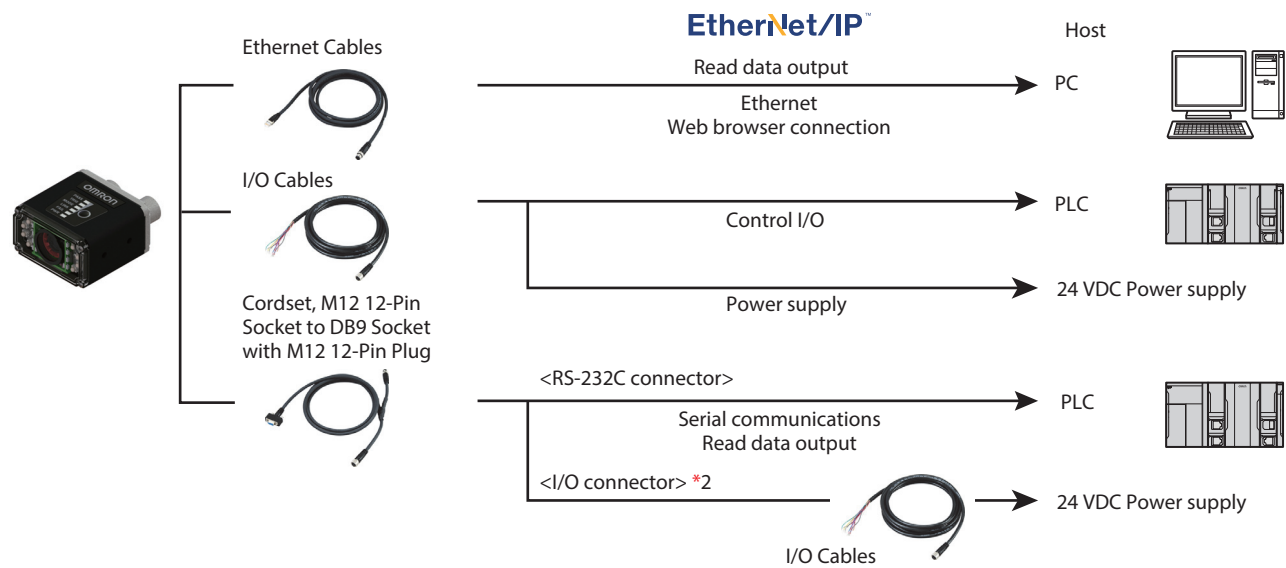
* Right angle cables.

Right angle up

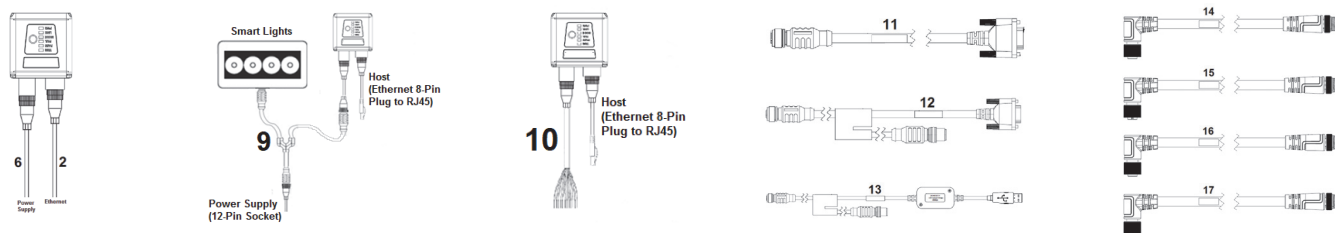
Right angle down



Wiring Examples



Alternate Wiring Options



Drawing Reference	Appearance	Category	Length / Spec	Part Number
9		Y Cable, Camera/Power and Smart Light Power (Continuous On)	1 Meter	61-9000135-01
		Y Cable, Camera/Power and Smart Light Strobe Control	1 Meter	61-9000137-01
10		M12 to Flying Leads Cable, Straight Power, IO, RS-232, USB	3 Meters	V430-W8-3M
		M12 to Flying Leads Cable, with Power Filter		V430-W8F-3M
		M12 to Flying Leads Cable, Straight Power, IO, RS-232, USB	5 Meters	V430-W8-5M
		M12 to Flying Leads Cable, with Power Filter		V430-W8F-5M
		M12 to Flying Leads Cable Right Angle Power, IO, RS232, USB	3 Meters – Right Angle Up	V430-W8LU-3M
		M12 to Flying Leads Cable Right Angle, with Power Filter		V430-W8LUF-3M
		M12 to Flying Leads Cable Right Angle Power, IO, RS232, USB	3 Meters – Right Angle Down	V430-W8LD-3M
		M12 to Flying Leads Cable Right Angle, with Power Filter		V430-W8LDF-3M
11		M12 to RS-232 Breakout	1 Meter	V430-WR-1M
			3 Meters	V430-WR-3M
12		Camera to QX-1 Interconnect Cables with RS-232 Breakout	2.7 Meters	V430-WQR-3M
13		Camera to QX-1 Interconnect Cables with USB Keyboard Wedge Breakout	2.7 Meters	V430-WQK-3M
14		M12 12-Pin Plug to M12 12-Pin Socket, Right Angle	3 Meters	61-000148-03
15		M12 12-Pin Plug to M12 12-Pin Socket, Right Angle, Alternate Key	3 Meters	61-000148-04
16		M12 12-Pin Plug to M12 12-Pin Socket, Right Angle	1 Meter	61-000162-03
17		M12 12-Pin Plug to M12 12-Pin Socket, Right Angle, Alternate Key	1 Meter	61-000162-04

V430-F Part Number Structure

Use this legend when defining product part numbers. Please note that not all combinations of parameters are valid. For instance, color cameras are only available with white lighting, and 400 mm fixed focus is only available with UHD lenses. When ordering, use valid part numbers from the tables in the Ordering Information section only.

V430-F[XXX][Y][ZZZ]-[L][C][P]

Key	Classification	Code	Meaning
XXX	Focus Distance (mm)	000	Autofocus – Variable Distance
		050	Fixed Focus at 50 mm
		064	Fixed Focus at 64 mm
		081	Fixed Focus at 81 mm
		102	Fixed Focus at 102 mm
		133	Fixed Focus at 133 mm
		190	Fixed Focus at 190 mm
		300	Fixed Focus at 300 mm
		400	Fixed Focus at 400 mm
Y	Lens	W	Wide Field of View – 5.2 mm Focal Length Lens
		M	Medium Field of View – 7.7 mm Focal Length Lens
		N	Narrow Field of View – 16 mm Focal Length Lens
		L	Narrow 16 mm Lens – Autofocus to 1160 mm
ZZZ	Sensor	03M	752 x 480 (0.3 MP) Pixel, Mono Sensor, Global Shutter
		12M	1280 x 960 (1.2 MP) Pixel, Mono Sensor, Global Shutter
		50C	2592 x 1944 (5 MP) Pixel, Color Sensor, Rolling Shutter
L	Light Type	N	No Outer Light
		S	Standard Outer Light
		R	Ring Light
C	Light Color	N	No Outer Light
		R	Red
		W	White
P	Software License	P	High Speed, Plus Mode
		X	High Speed, X-Mode

Example Part Numbers:

- V430-F081W03M-NNP: Fixed Focus at 81 mm, Wide Lens, 0.3 MP Monochrome Sensor, No Outer Light, High Speed, Plus Mode
- V430-F000N12M-RRX: Autofocus, Narrow Lens, 1.2 MP Mono, Ring Light, Red, High Speed, X-Mode
- V430-F000W50C-SWP: Autofocus, Wide Lens, 5 MP Color, Standard Light, White, High Speed, Plus Mode

V430-F Valid Product Matrix

Model	Category	Focus Type	Sensor	Lens	Focus Distance (mm)	Light	License
V430-F	Monochrome	Fixed Focus	03M, 12M	W, M	50, 64, 81, 102, 133, 190, 300	None, Red, White	P, X
			12M	N	64, 400	None, Red, White	P, X
		Autofocus	03M	W, M	50 <-> 300 Autofocus	None, Red, White	P, X
			12M	W, M, N	50 <-> 300 (W, M) 40 <-> 150 (N) Autofocus	None, Red, White	P, X
	Color	Fixed Focus	50C	W, M	50, 64, 81, 102, 133, 190, 300	None, White	P, X
		Autofocus	50C	W, M	50 <-> 300 Autofocus	None, White	P, X
	Specialty	Ring Light Autofocus	12M	M, N	50 <-> 300 (M) 40 <-> 150 (N) Autofocus	Red, White (Ring)	X
		Long Range Autofocus	12M	L	75 <-> 1160 Autofocus	None, Red, White	P, X