MICROHAWK[®] ID-20 / ID-30 / ID-40 / ID-45

CONFIGURATION GUIDE

Hardware Required

ltem	Description	Part Number
1	MicroHAWK ID-20, MicroHAWK ID-30, MicroHAWK ID-40, or MicroHAWK ID-45	7ABX-YZZZ-LPPP
2	Cable, USB A to Micro B, 6 ft., ID-20	61-9000034-01
3	Cable, USB A to Micro B, 3 ft., ID-20	61-9000045-01
4	Cable, DB15 to BUS Power USB Type A, ID-30	61-9000043-01
5	Kit, Cable, DB15 to Ext. Power/RS-232 with Power Supply, ID-30 - includes 97-9000006-01 and 61-9000037-01	98-9000048-01
6	Power Supply, 5V – for use with cables 61-9000037-01 and 61-9000038-01	97-9000006-01
7	Cable, DB15 to Ext. Power/RS-232, ID-30	61-9000037-01
8	Kit, Cable, DB15 to Ext. Power/USB with Power Supply, ID-30 - includes 97-9000006-01 and 61-9000038-01	98-9000049-01
9	Cable, DB15 to Ext. Power/USB, ID-30	61-9000038-01
10	Kit, Cable, DB15 to Ext. Power/USB, I/O with Power Supply, ID-30 - includes 97-000011-02 and 61-9000039-01	98-9000050-01
11	Power Supply, 100-240VAC, +5VDC, 2-Pin U.S./Euro Plug	97-000011-02
12	Cable, DB15 to Ext. Power/USB, I/O, ID-30	61-9000039-01
13	Power Supply, 100-240VAC, +24VDC, TRK 3-Pin, U.S./Euro Plug	97-000012-02
14	IB-131 Interface Box	99-000018-01
15	Converter, IC-332, 24V/5V, Opto I/O – for use with IB-131	FIS-0001-0035G
16	Cable, Communication, DB25 Plug to DB9 Socket, 6 ft.	61-3000026-03
17	Photo Sensor, Visible, NPN, Light On, 5VDC – for ID-30 only	99-000019-01
18	Cable, DB15 to USB/RS-232, Triggered, ID-30	61-9000102-01
19	Power Supply, 100-240VAC, +24VDC, M12 12-Pin Socket	97-000012-01
20	QX-1 Interface Device	98-000103-02
21	Cordset, Common, M12 12-Pin Socket (Screw-On) to M12 12-Pin Plug	61-000162-02
22	Cordset, Host, Ethernet, M12 8-Pin Plug (Screw-On) to RJ45, 1 m.	61-000160-03
23	Photo Sensor, M12 4-Pin Plug, NPN, Dark On or Light On (Selectable), 2 m.	99-9000016-01
24	Cable, M12 12-Pin Socket to 9-Pin Socket and M12 Plug	61-9000054-01
25	Cable, M12 12-Pin Socket to USB Keyboard Wedge and M12 Plug	61-9000088-01

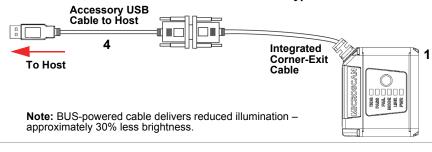
Configurations

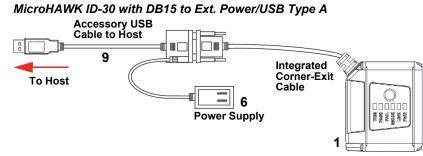
MicroHAWK ID-20 with Micro-USB Type B to USB Type A

USB Type A Plug



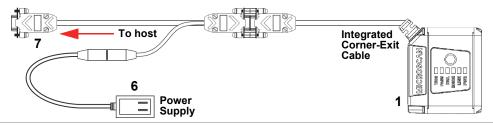
MicroHAWK ID-30 with DB15 to BUS Power USB Type A



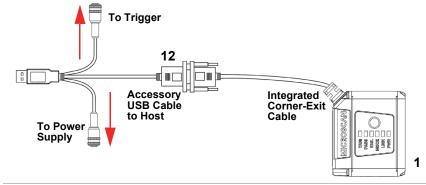


Configurations (continued)

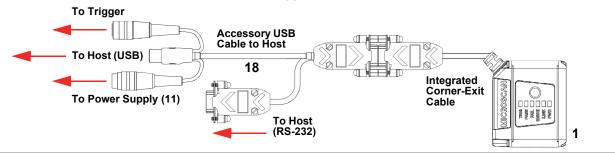
MicroHAWK ID-30 with DB15 to Ext. Power/RS-232



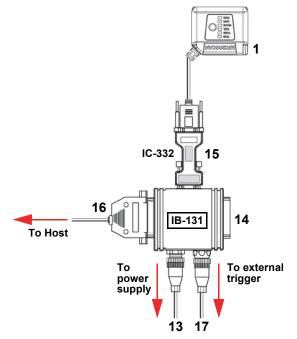
MicroHAWK ID-30 with DB15 to Ext. Power/USB, I/O



MicroHAWK ID-30 with DB15 to USB/RS-232, Triggered



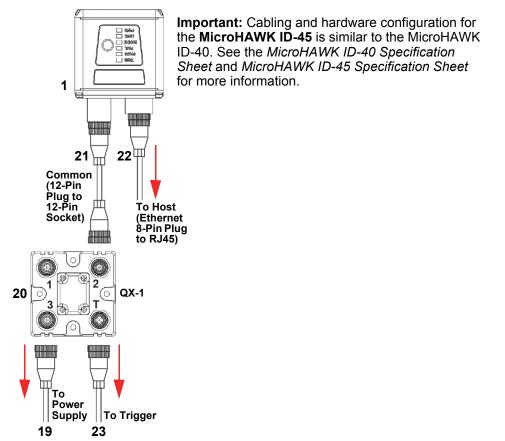
MicroHAWK ID-30 with IB-131 and IC-332



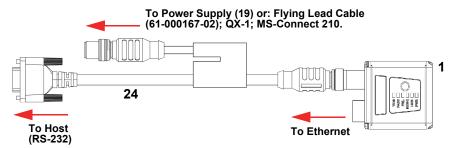
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Configurations (continued)

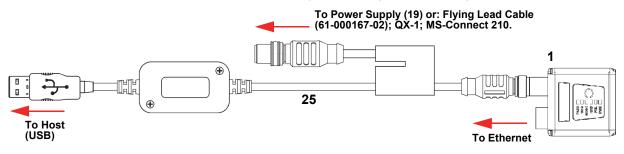
MicroHAWK ID-40 with QX-1 Interface Device



MicroHAWK ID-40 M12 12-Pin Socket to 9-Pin Socket and M12 Plug



MicroHAWK ID-40 with M12 12-Pin Socket to USB Keyboard Wedge and M12 Plug

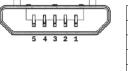


Power Requirements and Pin Assignments

MicroHAWK ID-20: 5 VDC ± 5%, 350 mA @ 5 VDC (typ.) MicroHAWK ID-30: 5 VDC ± 5%, 600 mA @ 5 VDC (typ.) MicroHAWK ID-40: 4.75-30 VDC, 200 mV p-p max ripple, 150 mA @ 24 VDC (typ.) MicroHAWK ID-45: 10-30 VDC, 200 mV p-p max ripple, 150 mA @ 24 VDC (typ.)

Important: See the MicroHAWK ID-20 / ID-30 / ID-40 / ID-45 User Manual for information about Omron Microscan's Isolation Mounting Kit (P/N 98-9000064-01) to eliminate ground loops or other external electrical noise through your MicroHAWK ID-30, ID-40, or ID-45 reader.

MicroHAWK ID-20 Micro-USB Type B Socket



Pin	Function
1	Vbus (5V)
2	D-
3	D+
4	N/C
5	Ground

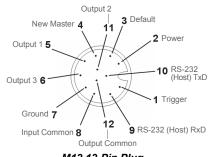
MicroHAWK ID-30 High-Density 15-Pin Dsub USB/Serial Socket



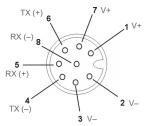
Note: An accessory cable is required between the ID-30's 15-pin corner-exit cable and the host's USB port.

Pin	Function
1	+5VDC
2	TX232
3	RX232
4	GND
5	D+
6	N/C
7	Output 1+
8	Default+
9	Trigger+
10	D-
11	Output 3+
12	New Master+
13	N/C
14	Output 2+
15	Vbus

MicroHAWK ID-40 and ID-45 Connectors

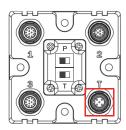






M12 8-Pin Socket (Ethernet)

QX-1 Interface Device – for use with the MicroHAWK ID-40 (Top View)



Connector T on the QX-1 Interface Device is the trigger connector. **Connectors 1**, **2**, and **3** can be used to bus power and data as required by the application.



QX-1 Trigger Connector (T) 4-pin Socket

MicroHAWK ID Accessories

	30 Connectivity Kits						
98-9000048-01	Kit, Cable, DB15 to Ext. Power/RS-232 with Power Supply, ID-30 – includes 97-9000006-01 and 61-9000037-01						
98-9000049-01	Kit, Cable, DB15 to Ext. Power/USB with Power Supply, ID-30 – includes 97-9000006-01 and 61-9000038-01						
98-9000050-01	 Kit, Cable, DB15 to Ext. Fower/USB, I/O with Power Supply, ID-30 – includes 97-5000000-01 and 01-50000039-01 Kit, Cable, DB15 to Ext. Power/USB, I/O with Power Supply, ID-30 – includes 97-000011-02 and 61-9000039-01 Recommended items (not included with kit): 99-000019-01, Visible, NPN, Light On, 5VDC 61-000151-01, Flying Lead Cable 						
MicroHAWK Po							
97-9000006-01	Power Supply, 5V – for use with cables 61-9000037-01 and 61-9000038-01						
97-000011-02	Power Supply, 100-240VAC, +5VDC, 2-Pin U.S. / Euro Plug						
97-000012-01	Power Supply, 100-240VAC, +24VDC, TRK 3-Pin, U.S. / Euro Plug						
MicroHAWK Cables							
61-9000034-01	Cable, USB A to Micro B, 6 ft., ID-20						
61-9000045-01	Cable, USB A to Micro B, 3 ft., ID-20						
61-9000037-01	Cable, DB15 to Ext. Power / RS-232, ID-30						
61-9000038-01	Cable, DB15 to Ext. Power / USB, ID-30						
61-9000039-01	Cable, DB15 to Ext. Power / USB, I/O, ID-30						
61-9000043-01	Cable, DB15 to BUS Power USB, ID-30						
61-9000102-01	Cable, DB15 to USB / RS-232 Triggered, ID-30						
61-9000054-01	Cable, M12 12-Pin Socket to 9-Pin Socket and M12 Plug						
61-9000088-01	Cable, M12 12-Pin Socket to USB Keyboard Wedge and M12 Plug						
MicroHAWK Mo	ounting Accessories						
98-000054-01	Kit, Mounting Stand, Base Plate, 6" x 6"						
98-9000034-01	Kit, Adapter, MicroHAWK ID-20						
98-9000041-01	Kit, L-Bracket, MicroHAWK						
98-9000047-01	Kit, 1/4-20 Camera Mount, MicroHAWK						
98-9000052-01	Kit, Mounting Stand, MicroHAWK, 4". Base plate not included. Order 98-000054-01 separately.						
98-9000053-01	Kit, Mounting Stand, MicroHAWK, 3"						
98-9000054-01	Kit, Mounting, APG, MicroHAWK						
98-9000059-01	Kit, Adapter Plate, MicroHAWK						
98-9000064-01	Kit, Isolation Mounting, M3, MicroHAWK ID-30 / ID-40						
98-9000222-01	Kit, Mounting, QX Hawk to MicroHAWK ID-45 Adapter / Isolation Kit						
Illumination and	d Optical Components						
98-9000043-01	Kit, Diffuser, MicroHAWK ID-30 / ID-40						
98-9000129-01	Kit, Polarizer, MicroHAWK ID-30 / ID-40						
98-9000045-01	Kit, Red LED, MicroHAWK ID-30 / ID-40						
98-9000046-01	Kit, White LED, MicroHAWK ID-30 / ID-40						
98-9000051-01	Kit, Window, MicroHAWK ID-30 / ID-40						
98-9000057-01	Kit, Right-Angle Mirror, MicroHAWK ID-20						
98-9000058-01	Kit, Right-Angle Mirror, MicroHAWK ID-30 / ID-40						
98-9000217-01	Kit, IR LED, MicroHAWK ID-45						
98-9000218-01	Kit, Blue LED, MicroHAWK ID-45						
98-9000219-01	Kit, White LED, MicroHAWK ID-45						
98-9000221-01	Kit, Diffuser, MicroHAWK ID-45						

MicroHAWK ID Part Number Structure

MicroHAWK ID part numbers follow the format 7ABX-YZZZ-LPPP.

7 = MicroHAWK

Example Part Number: 7432-2000-1005

Description: MicroHAWK ID-45, IP65/67 Case, 24V, Ethernet, SXGA 1.2 Megapixel, Mono, High-Density, Autofocus, Red Outer LEDs, High-Speed, X-Mode Decoder.

(A) Model

1: Engine, No Case, USB 2: ID-20, IP40 Case, USB 3: ID-30, IP54 Case, 5V, USB 4: ID-40, IP65/67 Case, 24V, Ethernet

(B) Software

- 1: Auto ID
- 2: (Reserved)
- 3: ID-45; same IP rating, power, and comm. as ID-40

(X) Sensor

1: WVGA, 0.3 Megapixel, Mono	WVGA	752 x 480, 0.3 MP, Mono	Global Shutter	Standard: 10 FPS / High: 60 FPS
2: SXGA, 1.2 Megapixel, Mono	SXGA	1280 x 960, 1.2 MP, Mono	Global Shutter	Standard: 10 FPS / High: 42 FPS
3: QSXGA, 5 Megapixel, Color	QSXGA	2592 x 1944, 5 MP, Color	Rolling Shutter	5 FPS

(Y) Optics

- 0: Custom
- 1: Standard-Density
- High-Density
- 3: Ultra-High-Density
- 4: Long-Range (Autofocus Long Range available for SXGA sensor only.)
- 5: Ultra-High-Density with Polarizer

(ZZZ) Focus Distance

000: Autofocus 050: 50 mm = 1.96 in. 064: 64 mm = 2.51 in. – UHD FF 081: 81 mm = 3.18 in. 102: 102 mm = 4.02 in. 133: 133 mm = 5.23 in. 190: 190 mm = 7.48 in. 300: 300 mm = 11.81 in. 400: 400 mm = 15.75 in. – UHD FF

(L) Outer LED Color

- 0: N/A (Engine and ID-20)
- 1: Red (Not available with QSXGA sensor.)
- 2: White
- 3: Blue 4: IR

(PPP) Speed and Decoder

- 000: Standard-Speed, 1D Decoder
- 001: High-Speed, 1D Decoder
- 002: Standard-Speed, 1D/2D Decoder
- 003: Standard-Speed, X-Mode Decoder
- 004: High-Speed, 1D/2D Decoder
- 005: High-Speed, X-Mode Decoder

Notes:

- (A) Model: The MicroHAWK Engine is available for OEM-certified partners only.
- (L) Outer LED Color: Outer LEDs provide extra illumination. Base level illumination included with all readers.
- (PPP) Speed and Decoder: 1D omnidirectional decoding functionality is included with all readers. The 1D/2D Decoder option is useful for printed labels. X-Mode is the full decoder package for 1D, 2D, DPM, and damaged symbols.
- Field Upgrades: Not available for optics or illumination due to factory settings for optical alignment, LED balancing, and sealing for IP enclosure rating. However, the reader's speed and decoder version are field-upgradeable via licenses.



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