

MICROSCAN

MicroHAWK Machine Vision Smart Cameras



MICRO HAWK



Features	MV-20	MV-30	MV-40
Barcode Reading (1D/2D)	●	●	●
Complete Machine Vision	●	●	●
Enclosure	IP40	IP54	IP65/67
PROFINET®			●
Ethernet TCP/IP, EtherNet/IP™			●
Ethernet over USB	●	●	
Serial RS-232		●	●
USB 2.0 High Speed / HID	●	●	
Power over Ethernet (PoE)			●
Outer Illumination		●	●
Liquid Lens Autofocus		●	●
Color Sensor	●	●	●
AutoVISION® Sensor Software	●	●	●
AutoVISION® Software	●	●	●
Visionscape® Software	●	●	●

To customize your MicroHAWK, please use the MicroHAWK Builder (automated version available on OMS).

3 Sensor Options

- WVGA 0.3MP
- SXGA 1.2MP
- QSXGA 5MP

2 Lens Options

- Standard Density
- High Density
- Ultra-High Density

2 Focus Options

- Fixed Focus
- Autofocus

3 Illumination Options

- Inner
- Outer Red
- Outer White
- Outer Blue
- Outer IR

5 License Levels

- AutoVISION Sensor
- AutoVISION
- AutoVISION + Verification
- AutoVISION + Visionscape
- AutoVISION + Verification + Visionscape

****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE code shown in the TYPE column below.

Product Type codes are defined as: P = PRODUCT Discount, A = ACCESSORY Discount.

A Product Type code modified with L signifies Legacy Status (refer to Legacy section of this catalog).

Refer to your Partner Agreement for the actual discount percentage by Product Type.

MV-20 Series Smart Cameras Standard Configurations



IP40 enclosure
Micro-USB connector (USB only)
5VDC
M2 mounting holes

MicroHAWK MV-20 Smart Cameras		List Price	Type
Part Number	Description		
7211-1102-0100	MICROHAWK, MV-20, WVGA, SD, 102MM, AV SENSOR	\$ 1,226	P
7211-1102-0101	MICROHAWK, MV-20, WVGA, SD, 102MM, AV	\$ 1,636	P
7211-1102-0102	MICROHAWK, MV-20, WVGA, SD, 102MM, AV+VS	\$ 2,046	P
7212-2102-0101	MICROHAWK, MV-20, SXGA, HD, 102MM, AV	\$ 1,944	P
7212-2102-0102	MICROHAWK, MV-20, SXGA, HD, 102MM, AV+VS	\$ 2,354	P
7212-2102-0103	MICROHAWK, MV-20, SXGA, HD, 102MM, AV+VERIF./OCV	\$ 2,354	P
7212-2102-0104	MICROHAWK, MV-20, SXGA, HD, 102MM, AV+VERIF./OCV+VS	\$ 2,660	P
7213-1102-0100	MICROHAWK, MV-20, QSXGA, SD, 102MM, AV SENSOR	\$ 1,328	P
7213-1102-0101	MICROHAWK, MV-20, QSXGA, SD, 102MM, AV	\$ 1,738	P
7213-1102-0102	MICROHAWK, MV-20, QSXGA, SD, 102MM, AV+VS	\$ 2,148	P
7212-3064-0102	MICROHAWK, MV-20, SXGA, UHD, 64MM, AV+VS	\$ 2,456	P
7212-3400-0102	MICROHAWK, MV-20, SXGA, UHD, 400MM, AV+VS	\$ 2,456	P

Standard configurations above. Customize MV-20 on the Partner Portal.

Note: Above MV-20 models include 6ft USB 2.0 power cable.

MV-30 Series Smart Cameras Standard Configurations



Compact size, corner cable design
 IP54 enclosure
 DB-15 connector (USB, Serial, I/O)
 5V DC
 Status Indicators
 Added Illumination Option
 M3 Mounting holes

MicroHAWK MV-30 Smart Cameras				
Part Number	Description	List Price		Type
7311-1102-1100	MICROHAWK, MV-30, WVGA, SD, 102MM, RED, AV SENSOR	\$ 1,534		P
7311-1102-1101	MICROHAWK, MV-30, WVGA, SD, 102MM, RED, AV	\$ 1,944		P
7311-1102-1102	MICROHAWK, MV-30, WVGA, SD, 102MM, RED, AV+VS	\$ 2,354		P
7311-2190-1101	MICROHAWK, MV-30, WVGA, HD, 190MM, RED, AV	\$ 1,944		P
7311-2190-1102	MICROHAWK, MV-30, WVGA, HD, 190MM, RED, AV+VS	\$ 2,354		P
7311-2190-1103	MICROHAWK, MV-30, WVGA, HD, 190MM, RED, AV+VERIF./OCV	\$ 2,354		P
7311-2190-1104	MICROHAWK, MV-30, WVGA, HD, 190MM, RED, AV+VERIF./OCV+VS	\$ 2,660		P
7311-1000-1100	MICROHAWK, MV-30, WVGA, SD, AUTOFOCUS, RED, AV SENSOR	\$ 1,840		P
7311-1000-1101	MICROHAWK, MV-30, WVGA, SD, AUTOFOCUS, RED, AV	\$ 2,250		P
7311-1000-1102	MICROHAWK, MV-30, WVGA, SD, AUTOFOCUS, RED, AV+VS	\$ 2,660		P
7312-1102-1100	MICROHAWK, MV-30, SXGA, SD, 102MM, RED, AV SENSOR	\$ 1,840		P
7312-1102-1101	MICROHAWK, MV-30, SXGA, SD, 102MM, RED, AV	\$ 2,250		P
7312-1102-1102	MICROHAWK, MV-30, SXGA, SD, 102MM, RED, AV+VS	\$ 2,660		P
7312-2190-1101	MICROHAWK, MV-30, SXGA, HD, 190MM, RED, AV	\$ 2,250		P
7312-2190-1102	MICROHAWK, MV-30, SXGA, HD, 190MM, RED, AV+VS	\$ 2,660		P
7312-2190-1103	MICROHAWK, MV-30, SXGA, HD, 190MM, RED, AV+VERIF./OCV	\$ 2,660		P
7312-2190-1104	MICROHAWK, MV-30, SXGA, HD, 190MM, RED, AV+VERIF./OCV+VS	\$ 2,968		P
7312-3064-1102	MICROHAWK, MV-30, SXGA, UHD, 64MM, RED, AV+VS	\$ 2,764		P
7312-3400-1102	MICROHAWK, MV-30, SXGA, UHD, 400MM, RED, AV+VS	\$ 2,764		P
7312-3064-2102	MICROHAWK, MV-30, SXGA, UHD, 64MM, WHT, AV+VS	\$ 2,764		P
7312-3400-2102	MICROHAWK, MV-30, SXGA, UHD, 400MM, WHT, AV+VS	\$ 2,764		P
7312-2000-1101	MICROHAWK, MV-30, SXGA, HD, AUTOFOCUS, RED, AV	\$ 2,558		P
7312-2000-1102	MICROHAWK, MV-30, SXGA, HD, AUTOFOCUS, RED, AV+VS	\$ 2,968		P
7312-2000-1103	MICROHAWK, MV-30, SXGA, HD, AUTOFOCUS, RED, AV+VERIF./OCV	\$ 2,968		P
7312-2000-1104	MICROHAWK, MV-30, SXGA, HD, AUTOFOCUS, RED, AV+VERIF./OCV + VS	\$ 3,276		P
7312-3000-1102	MICROHAWK, MV-30, SXGA, UHD, AUTOFOCUS, RED, AV+VS	\$ 3,070		P
7312-3000-2102	MICROHAWK, MV-30, SXGA, UHD, AUTOFOCUS, WHT, AV+VS	\$ 3,070		P
7313-1102-2100	MICROHAWK, MV-30, QSXGA, SD, 102MM, WHT, AV SENSOR	\$ 1,636		P
7313-1102-2101	MICROHAWK, MV-30, QSXGA, SD, 102MM, WHT, AV	\$ 2,046		P
7313-1102-2102	MICROHAWK, MV-30, QSXGA, SD, 102MM, WHT, AV+VS	\$ 2,456		P
7313-2190-2101	MICROHAWK, MV-30, QSXGA, HD, 190MM, WHT, AV	\$ 2,046		P
7313-2190-2102	MICROHAWK, MV-30, QSXGA, HD, 190MM, WHT, AV+VS	\$ 2,456		P
7313-1000-2100	MICROHAWK, MV-30, QSXGA, SD, AUTOFOCUS, WHT, AV SENSOR	\$ 1,944		P
7313-1000-2101	MICROHAWK, MV-30, QSXGA, SD, AUTOFOCUS, WHT, AV	\$ 2,354		P
7313-1000-2102	MICROHAWK, MV-30, QSXGA, SD, AUTOFOCUS, WHT, AV+VS	\$ 2,764		P
7313-2000-2101	MICROHAWK, MV-30, QSXGA, HD, AUTOFOCUS, WHT, AV	\$ 2,354		P
7313-2000-2102	MICROHAWK, MV-30, QSXGA, HD, AUTOFOCUS, WHT, AV+VS	\$ 2,764		P
7312-2000-2106	MICROHAWK, MV-30, SXGA, HD, AF, WHT, AV/VER/OCV/VS/HS/XM/DUAL BOOT	\$ 3,375		P

Standard configurations above. Customize MV-30 on the Partner Portal.

MV-40 Series Smart Cameras

Standard Configurations



MicroHAWK MV-40 Smart Cameras			
Part Number	Description	List Price	Type
7411-1102-1100	MICROHAWK, MV-40, WVGA, SD, 102MM, RED, AV SENSOR	\$ 1,840	P
7411-1102-1101	MICROHAWK, MV-40, WVGA, SD, 102MM, RED, AV	\$ 2,250	P
7411-1102-1102	MICROHAWK, MV-40, WVGA, SD, 102MM, RED, AV+VS	\$ 2,660	P
7411-2190-1101	MICROHAWK, MV-40, WVGA, HD, 190MM, RED, AV	\$ 2,250	P
7411-2190-1102	MICROHAWK, MV-40, WVGA, HD, 190MM, RED, AV+VS	\$ 2,660	P
7411-2190-1103	MICROHAWK, MV-40, WVGA, HD, 190MM, RED, AV+VERIF./OCV	\$ 2,660	P
7411-2190-1104	MICROHAWK, MV-40, WVGA, HD, 190MM, RED, AV+VERIF./OCV+VS	\$ 2,968	P
7411-1000-1100	MICROHAWK, MV-40, WVGA, SD, AUTOFOCUS, RED, AV SENSOR	\$ 2,148	P
7411-1000-1101	MICROHAWK, MV-40, WVGA, SD, AUTOFOCUS, RED, AV	\$ 2,558	P
7411-1000-1102	MICROHAWK, MV-40, WVGA, SD, AUTOFOCUS, RED, AV+VS	\$ 2,968	P
7412-1102-1100	MICROHAWK, MV-40, SXGA, SD, 102MM, RED, AV SENSOR	\$ 2,148	P
7412-1102-1101	MICROHAWK, MV-40, SXGA, SD, 102MM, RED, AV	\$ 2,558	P
7412-1102-1102	MICROHAWK, MV-40, SXGA, SD, 102MM, RED, AV+VS	\$ 2,968	P
7412-2190-1101	MICROHAWK, MV-40, SXGA, HD, 190MM, RED, AV	\$ 2,558	P
7412-2190-1102	MICROHAWK, MV-40, SXGA, HD, 190MM, RED, AV+VS	\$ 2,968	P
7412-2190-1103	MICROHAWK, MV-40, SXGA, HD, 190MM, RED, AV+VERIF./OCV	\$ 2,968	P
7412-2190-1104	MICROHAWK, MV-40, SXGA, HD, 190MM, RED, AV+VERIF./OCV+VS	\$ 3,276	P
7412-3064-1102	MICROHAWK, MV-40, SXGA, UHD, 64MM,RED, AV+VS	\$ 3,070	P
7412-3400-1102	MICROHAWK, MV-40, SXGA, UHD, 400MM,RED, AV+VS	\$ 3,070	P
7412-3064-2102	MICROHAWK, MV-40, SXGA, UHD, 64MM,WHT, AV+VS	\$ 3,070	P
7412-3400-2102	MICROHAWK, MV-40, SXGA, UHD, 400MM,WHT, AV+VS	\$ 3,070	P
7412-2000-1101	MICROHAWK, MV-40, SXGA, HD, AUTOFOCUS, RED, AV	\$ 2,866	P
7412-2000-1102	MICROHAWK, MV-40, SXGA, HD, AUTOFOCUS, RED, AV+VS	\$ 3,276	P
7412-2000-1103	MICROHAWK, MV-40, SXGA, HD, AUTOFOCUS, RED, AV+VERIF./OCV	\$ 3,276	P
7412-2000-1104	MICROHAWK, MV-40, SXGA, HD, AUTOFOCUS, RED, AV+VERIF./OCV + VS	\$ 3,584	P
7412-3000-1102	MICROHAWK, MV-40, SXGA, UHD, AUTOFOCUS, RED, AV+VS	\$ 3,378	P
7412-3000-2102	MICROHAWK, MV-40, SXGA, UHD, AUTOFOCUS,WHT, AV+VS	\$ 3,378	P
7413-1102-2100	MICROHAWK, MV-40, QSXGA, SD, 102MM,WHT, AV SENSOR	\$ 1,944	P
7413-1102-2101	MICROHAWK, MV-40, QSXGA, SD, 102MM,WHT, AV	\$ 2,354	P
7413-1102-2102	MICROHAWK, MV-40, QSXGA, SD, 102MM,WHT, AV+VS	\$ 2,764	P
7413-2190-2101	MICROHAWK, MV-40, QSXGA, HD, 190MM,WHT, AV	\$ 2,354	P
7413-2190-2102	MICROHAWK, MV-40, QSXGA, HD, 190MM,WHT, AV+VS	\$ 2,764	P
7413-1000-2100	MICROHAWK, MV-40, QSXGA, SD, AUTOFOCUS,WHT, AV SENSOR	\$ 2,250	P
7413-1000-2101	MICROHAWK, MV-40, QSXGA, SD, AUTOFOCUS,WHT, AV	\$ 2,660	P
7413-1000-2102	MICROHAWK, MV-40, QSXGA, SD, AUTOFOCUS,WHT, AV+VS	\$ 3,070	P
7413-2000-2101	MICROHAWK, MV-40, QSXGA, HD, AUTOFOCUS,WHT, AV	\$ 2,660	P
7413-2000-2102	MICROHAWK, MV-40, QSXGA, HD, AUTOFOCUS,WHT, AV+VS	\$ 3,070	P
7412-2000-2106	MICROHAWK,MV-40,SXGA,HD,AF,WHT,AV/VER/OCV/VS/HS/XM/DUAL BOOT	\$ 3,680	P

Standard configurations above. Customize MV-40 on the Partner Portal.

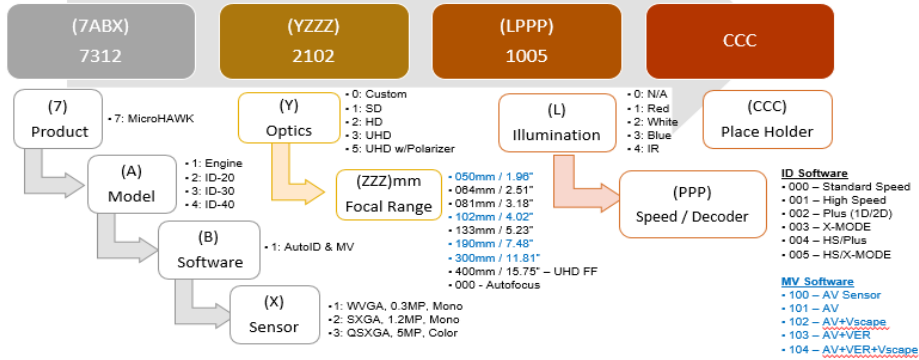
MicroHAWK Smart Part Numbering

To customize your MicroHAWK, please use the Smart Part Numbering table (automated version available on OMS).

18 Standard Configurations; over 932 possible options.

MicroHAWK Smart Part Numbering

Part Number Format: 7ABX-YZZZ-LPPP-CCC
7 = MicroHAWK



Example Part Number: 7312-2102-1005
 Description: ID-30, SXGA, HD, 4" Fixed Focus, Red LEDs, HS, X-Mode

Notes:

- LED (L): Additional Outer LEDs provide extra illumination. Base level illumination is always included with each model
- MV License Bundle (PPP): MV Licenses are field upgradable
- Focus Distance (ZZZ): Focus distance is factory settable. 50 mm, 102 mm, 190 mmm and 300 mm are standard for MV.

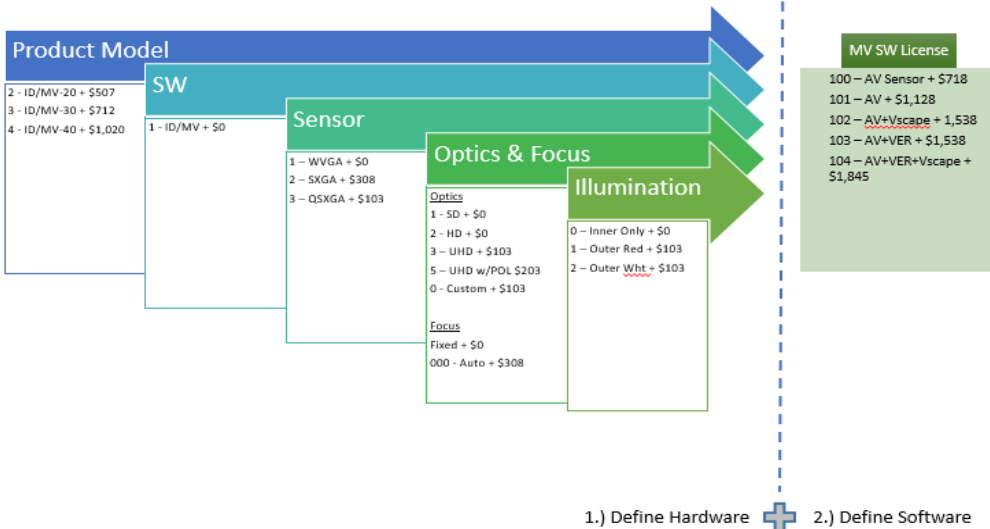
Part Description Legend

- SD= STANDARD DENSITY LENS
- HD= HIGH DENSITY LENS
- RED= RED ILLUM
- WHT= WHITE ILLUM
- AV = AutoVISION
- VER = Verification

Sensor Table

	Pixels (HxV), MP	Shutter	Frame Rate (Standard/High)
WVGA	752x480, 0.3MP, Monochrome	Global	10 fps / 60 fps
SXGA	1280x960, 1.2MP, Monochrome	Global	10 fps / 42 fps
QSXGA	2592x1944, 5MP, Color	Rolling	5 fps

MicroHAWK-MV US Pricing



MicroHAWK Accessories

MicroHAWK MV License Upgrades			
Part Number	Description	List Price	Type
LIC-0700-003*	LICENSE,MACHINE VISION,AUTOVISION	\$ 410	A
LIC-0700-006*	LICENSE,MACHINE VISION,VISIONSCAPE	\$ 410	A
LIC-0700-009*	LICENSE,MACHINE VISION,VERIFICATION/OCV	\$ 410	A
LIC-0700-011*	LICENSE,MACHINE VISION,AUTOVISION SENSOR	\$ -	A
LIC-0700-325*	LICENSE,MACHINE VISION,MACHINE VISION UNLOCK	\$ 718	A
* All MicroHAWK ID units converting to Machine Vision must purchase the MACHINE VISION UNLOCK license, LIC-0700-325 in addition to the software licenses required			

MicroHAWK-20/30 Connectivity Cables			
Part Number	Description	List Price	Type
61-9000034-01	CABLE, USB A MALE TO MICRO USB B MALE, 6FT	\$ 22	A
61-9000045-01	CABLE, USB A MALE TO MICRO USB B MALE, 3 FT	\$ 22	A
61-9000037-01	CABLE, DB15 to EXT PWR/RS232, MICROHAWK-30 (Cable only)	\$ 84	A
61-9000038-01	CABLE, DB15 to EXT PWR/USB, MICROHAWK-30 (Cable only)	\$ 84	A
61-9000039-01	CABLE, DB15 to EXT PWR/USB, I/O, MICROHAWK-30 (Cable only)	\$ 106	A
61-9000043-01	CABLE, DB15 to BUS PWR USB, MICROHAWK-30	\$ 72	A
61-9000102-01	CABLE, DB15 TO USB/RS232, TRIGGERED, MICROHAWK-30 (CABLE ONLY)	\$ 424	A
61-9000131-01	CABLE, USB/RS232/PWR, MICROHAWK-30, 1M (Cable Only) REQ PWR SUPPLY (97-000011-02)	\$ 83	A

MicroHAWK-30 Connectivity Cable Kits			
Part Number	Description	List Price	Type
98-9000048-01	KIT,CABLE,DB15 to EXT PWR/RS232,W/PWR SUPPLY,MICROHAWK-30 ** INCLUDES PN:61-9000037-01 and PN:97-9000006-01	\$ 116	A
98-9000049-01	KIT,CABLE,DB15 to EXT PWR/USB,W/PWR SUPPLY,MICROHAWK-30 ** INCLUDES PN:61-9000038-01 and PN:97-9000006-01	\$ 116	A
98-9000050-01	KIT,CABLE,DB15 to EXT PWR/USB,I/O,W/PWR SUPPLY,MICROHAWK-30 ** INCLUDES PN:61-9000039-01 and PN:97-000011-02 ***RECOMMENDED TO PURCHASE SEPARATELY: (Select one of below, not included with Kit) - PN:99-000019-01,PHOTO SENSOR,VIS,NPN,5VDC,LIGHT ON - PN:61-000151-01,FLYING LEAD CABLE	\$ 204	A

MicroHAWK-40 Connectivity Cables

Part Number	Description	List Price	Type
61-000148-02	QX Cordset,Common,M12 12-Pin Socket(Screw-On)-to-M12 12-Pin Plug(Screw-On),3m.	\$ 106	A
61-000162-02	QX Cordset,Common,M12 12-Pin Socket(Screw-On)-to-M12 12-Pin Plug(Screw-On),1m.	\$ 100	A
61-000153-02	QX Cordset, Host, Serial, M12 12-Pin Socket (Screw-On)-to-DB-9 Socket, 1 m.	\$ 100	A
61-000164-02	QX Cordset, Host, Serial, M12 12-Pin Socket (Screw-On)-to-DB-9 Socket, 3 m.	\$ 106	A
61-000163-03	QX Cordset, Host, Ethernet, M12 8-Pin Plug (Screw-On)-to-RJ45, 3 m.	\$ 106	A
61-000160-03	QX Cordset, Host, Ethernet, M8 8-Pin Plug (Screw-On)-to-RJ45, 1 m.	\$ 100	A
61-000167-02	QX Cordset, M12 12-Pin Socket (Screw-On)-to-Flying Leads, 3 m.	\$ 106	A
61-000226-01	CORDSET M12 12-PIN SOCKET (SCREW-ON)-TO-MS-CONNECT 210 2M	\$ 166	A
61-9000054-01	ASSY, CABLE, M12 12-PIN SOCKET TO 9PIN SOCKET AND M12 PLUG	\$ 248	A
61-9000088-01	ASSY,CABLE,,M12 12-PIN SOCKET TO USB KYBRD AND M12 PLUG	\$ 424	A

Note: ID-40 compatible with QX series Screw-On cables and accessories (with exception to Ultra Lock, quick disconnect cables).

COMMON CORDSETS (5M) MICROHAWK-40

Part Number	Description	List Price	Type
61-9000133-01	CORDSET, M12 12 PIN SOCKET TO FLYING LEADS, HIGH FLEX, 5M	\$ 132	A
61-9000118-01	CORDSET, ETHERNET, M12 8 PIN PLUG TO RJ45, HIGH FLEX, 5M	\$ 132	A
61-9000117-01	CORDSET, M12 12 PIN PLUG TO M12 12 PIN SOCKET, HIGH FLEX, 5M	\$ 132	A

COMMON CORDSETS (90DEG) MICROHAWK-40

Part Number	Description	List Price	Type
61-000148-03	CORDSET, M12 12 PIN PLUG TO M12 12 PIN SOCKET, RIGHT ANGLE UP, 3M	\$ 106	A
61-000148-04	CORDSET, M12 12 PIN PLUG TO M12 12 PIN SOCKET, RIGHT ANGLE UP, 3M	\$ 106	A
61-000162-03	CORDSET, M12 12 PIN PLUG TO M12 12 PIN SOCKET, RIGHT ANGLE DOWN, 1M	\$ 100	A
61-000162-04	CORDSET, M12 12 PIN PLUG TO M12 12 PIN SOCKET, RIGHT ANGLE UP, 1M	\$ 100	A
61-000167-03	CORDSET, M12 12 PIN SOCKET TO FLYING LEADS, RIGHT ANGLE DOWN, 3M	\$ 106	A
61-000167-04	CORDSET, M12 12 PIN SOCKET, FLYING LEADS, RIGHT ANGLE UP, 3M	\$ 106	A
61-000160-04	CORDSET, M12 8 PIN PLUG TO RJ45 ETHERNET, RIGHT ANGLE DOWN, 1M	\$ 100	A
61-000160-05	CORDSET, M12 8 PIN PLUG TO RJ45 ETHERNET, RIGHT ANGLE UP, 1M	\$ 100	A
61-000163-04	CORDSET, M12 8 PIN PLUG TO RJ45 ETHERNET, RIGHT ANGLE DOWN, 3M	\$ 106	A
61-000163-05	CORDSET, M12 8 PIN PLUG TO RJ45 ETHERNET, RIGHT ANGLE UP, 3M	\$ 106	A

MicroHAWK Power Supplies

Part Number	Description	List Price	Type
97-9000006-01	Power Supply, 5V for use with 61-9000037-01 & 61-9000038-01 cables	\$ 40	A
97-000011-02	Power Supply,100-240VAC,+5VDC, 2PN PLG, USA/EUR Plug	\$ 102	A
97-000012-01	Power Supply, 100-240VAC, +24VDC, M12 12-pin Socket	\$ 154	A

Note: 97-000011-02 is for ID-30 with cable 61-9000039-01 & kit 98-9000050-01

MicroHAWK Mounting

Part Number	Description	List Price	Type
98-9000034-01	KIT, ADAPTER, MS-4 to MICROHAWK-20	\$ 50	A
98-9000041-01	KIT, L BRACKET, MICROHAWK	\$ 50	A
98-9000047-01	KIT, 1/4-20 CAMERA MOUNT,MICROHAWK	\$ 28	A
98-9000052-01	KIT, MOUNTING STAND,MS-3,MS-4,MINI,MICROHAWK,4"	\$ 94	A
98-9000053-01	KIT, MOUNTING STAND,MS-3,MS-4,MINI,MICROHAWK,3"	\$ 94	A
98-9000054-01	KIT, MOUNTING, APG, MS-4, MINI, MICROHAWK	\$ 115	A
98-9000059-01	KIT, ADAPTER PLATE, MICROHAWK 20/30/40 TO MINI	\$ 106	A
98-9000064-01	KIT, ISOLATION MOUNTING,M3,MICROHAWK ID-30/40	\$ 18	A

MicroHAWK Accessories

Part Number	Description	List Price	Type
98-9000051-01	KIT, WINDOW, MICROHAWK-30/40	\$ 40	A
98-9000043-01	KIT, DIFFUSER, MICROHAWK-30/40	\$ 84	A
98-9000129-01	KIT, POLARIZER, MICROHAWK 30/40, EXTERNAL	\$ 133	A
98-9000132-01	KIT, ESD-SAFE WINDOW, MICROHAWK	\$ 133	A
98-9000131-01	KIT, YAG FILTER, MICROHAWK	\$ 133	A
98-9000083-01	KIT, RED FILTER, MICROHAWK, 30 & 40	\$ 84	A
98-9000084-01	KIT, BLUE FILTER, MICROHAWK, 30 & 40	\$ 84	A
98-9000045-02	KIT, RED LED, MICROHAWK 30/40	\$ 138	A
98-9000046-01	KIT, WHITE LED, MICROHAWK-30/40	\$ 138	A
98-9000160-01	KIT, BLUE LED, MICROHAWK 30 & 40	\$ 138	A
98-9000159-01	KIT, IR LED, MICROHAWK 30 & 40	\$ 138	A
98-9000057-01	KIT, RA MIRROR, MICROHAWK 20	\$ 132	A
98-9000058-01	KIT, RA MIRROR, MICROHAWK, 30 & 40	\$ 132	A
98-9000064-01	KIT, ISOLATION MOUNTING,M3,MICROHAWK ID-30/40	\$ 18	A

Demo Kits - MicroHAWK

Part Number	Description	List Price	Type
98-9000039-03	DEMO KIT, MICROHAWK (NO UNITS)	\$ 695	A
SLN-0000036	MicroHAWK ID/MV 30, SXGA, HD, White LED, Dual Boot Camera with Accessories	\$ 3,168	P
SLN-0000037	MicroHAWK ID/MV 40, SXGA, HD, White LED, Dual Boot Camera with Accessories	\$ 3,374	P

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Stand Alone Configurations

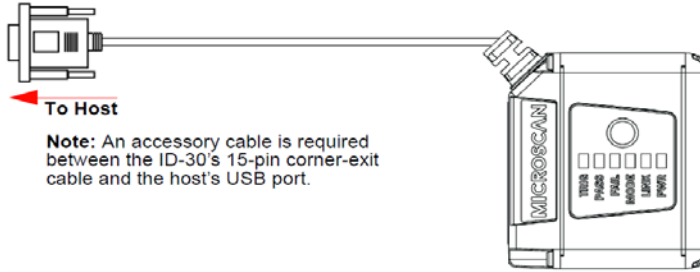
Note: Daisy-Chain Configurations are currently not available.

MV-20 Series Imagers

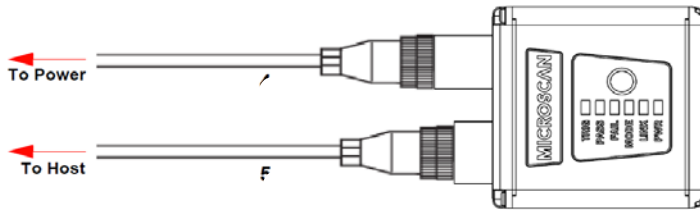
USB Type A Plug



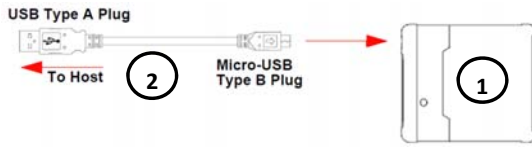
MV-30 Series Imagers



MV-40 Series Imagers



Tech Reference MicroHAWK MV-20

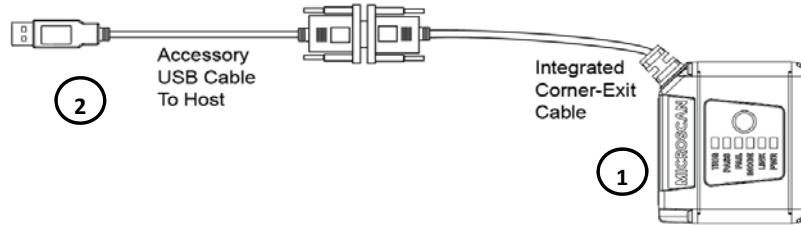


System Matrix

Product	Reference No. & Description	List Price
1	MicroHAWK ID-20	Varies
2	61-9000034-01, CABLE,USB A to MicroB,6FT,MICROHAWK-20	\$ 22
2	61-9000045-01, CABLE,USB A to MicroB,3FT,MICROHAWK-20	\$ 22

Tech Reference MicroHAWK MV-30

Stand Alone with DB-15 to BUS PWR USB Type A

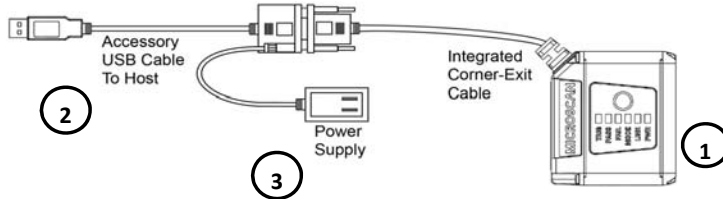


System Matrix

Product	Reference No. & Description	List Price
1	MicroHAWK ID-30	Varies
2	61-9000043-01, CABLE,DB15 to BUS PWR USB,MICROHAWK-30	\$ 72

Note: Bus powered cable delivers reduced illumination..."approximately 30% less brightness"
 Note: Does not include I/O interface option: trigger cable with photo-sensor, or flying lead cable

Stand Alone with DB15 to EXT PWR/USB Type A

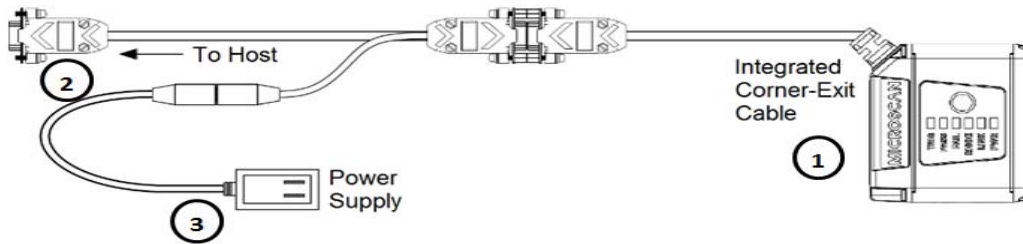


System Matrix

Product	Reference No. & Description	List Price
1	MicroHAWK ID-30	Varies
2	61-9000038-01, CABLE,DB15 to EXT PWR/USB,MICROHAWK-30	\$ 84
3	97-9000006-01, POWER SUPPLY,5V,for PN:61-9000037-01 &	\$ 40
	98-9000049-01, KIT,CABLE,DB15 to EXT PWR/USB,W/PWR SUPPLY,MICROHAWK-30	\$ 116

Note: Does not include I/O interface option: trigger cable with photo-sensor, or flying lead cable

Stand Alone with DB15 to EXT PWR/RS232

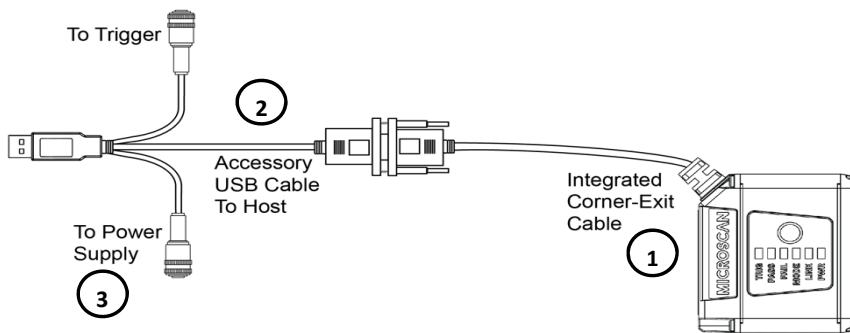


System Matrix

Product	Reference No. & Description	List Price
1	MicroHAWK ID-30	Varies
2	61-9000037-01, CABLE, DB15 to EXT PWR/RS232, MICROHAWK-30 (Cable only)	\$ 84
3	97-9000006-01, POWER SUPPLY, 5V, for PN:61-9000037-01 & PN:61-9000038-01	\$ 40
	98-9000048-01, KIT, CABLE, DB15 to EXT PWR/RS232, W/PWR SUPPLY, MICROHAWK-30	\$ 116

Note: Does not include I/O interface option: trigger cable with photo-sensor, or flying lead cable
 Note: RS232 Connector to host is a standard DB-9

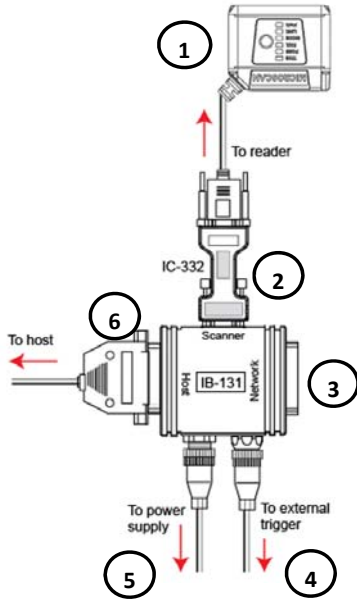
Stand Alone with DB15 to EXT PWR/USB, I/O



System Matrix

Product	Reference No. & Description	List Price
1	MicroHAWK ID-30	Varies
2	61-9000039-01, CABLE, DB15 to EXT PWR/USB, I/O.	\$ 106
3	97-000011-02, Power Supply, 100-240VAC, +5VDC, 2-Pin Plug, U.S./Euro Plug	\$ 102
	98-9000050-01, KIT, CABLE, DB15 to EXT PWR/USB, I/O, W/PWR SUPPLY, MICROHAWK-30	\$ 204

Stand Alone with IB-131 and IC-332

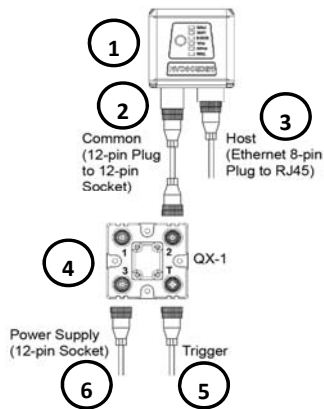


System Matrix

Product	Reference No. & Description	List Price
1	MicroHAWK ID-30	Varies
2	FIS-0001-0035G, Converter, IC-332, 24V/5V, Opto I/O, for Use with IB-131	\$ 202
3	99-000018-01, IB-131 Interface Box	\$ 202
4	99-000019-01, Photo Sensor, Visible, NPN, Light On, 5VDC	\$ 214
5	97-000012-02, Power Supply, 100-240VAC, +24VDC, TRK 3-Pin, U.S./Euro Plug)	\$ 168
6	61-300026-03, Cable, Communication, DB-25 Plug-to-DB-9 Socket, 6 ft.	\$ 38

Tech Reference MicroHAWK MV-40

Stand Alone with QX-1 Interface



System Matrix

Product	Reference No. & Description	List Price
1	MicroHAWK ID-40	Varies
2	61-000162-02, QX Cordset, Common, M12 12-Pin Socket(Screw-On)-to-M12 12-Pin Plug(Screw-On), 1m.	\$ 100
3	61-000160-03, QX Cordset, Host, Ethernet, M12 8-Pin Plug (Screw-On)-to-RJ45, 1 m.	\$ 100
4	98-000103-02, QX-1 Interface Device	\$ 216
5	97-000012-01, Power Supply, 100-240VAC, +24VDC, M12 12-Pin Socket	\$ 154
6	99-000020-01, QX Photo Sensor, M12 4-Pin Plug, NPN, Dark Off, 2 m.	\$ 214
6	99-000020-02, QX Photo Sensor, M12 4-Pin Plug, NPN, Dark, On, 2 m.	\$ 214