

MICROHAWK® ID-45

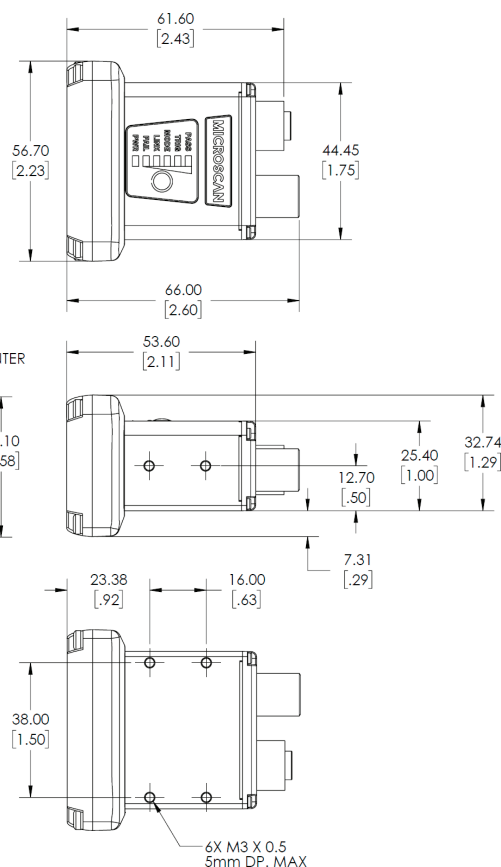
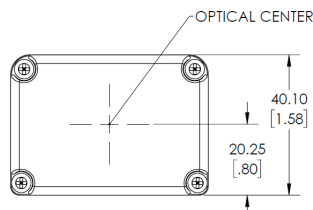
SPECIFICATIONS AND OPTIONS

**Ultra-Compact**

Height: 40.10 mm (1.58")

Width: 56.70 mm (2.23")

Length: 53.60 mm (2.11")

Integrated LEDsWebLink
Interface
Onboard

Note: Nominal dimensions shown. Typical tolerances apply.

DIMENSIONS

Height: 40.10 mm (1.58")

Width: 56.70 mm (2.23")

Length: 53.60 mm (2.11")

Weight: 98.47 g (3.47 oz.)

ENCLOSURE

IP-65/67, Aluminum

ENVIRONMENTALOperating Temperature: 0° to 45° C
(32° to 113° F)Storage Temperature: -50° to 75° C
(-58° to 167° F)

Humidity: 5% to 95% (non-condensing)

EMISSIONS

EN 55022:2010 Class A Limits

ELECTRICAL10-30 VDC, 200 mV p-p max ripple,
150 mA at 24 VDC (typ.)**CONNECTOR**

M12 12-Pin Power/IO, M12 8-Pin Ethernet

COMMUNICATIONRS-232, Ethernet TCP/IP, PROFINET,
EtherNet/IP™, Passive Power over Ethernet
(PoE), 24V**DISCRETE I/O**3 in/3 out, Optoisolated Trigger Input; New
Master: Bi-directional, Optoisolated, 4.5-
28 V rated (10 mA @ 28 VDC); Outputs
(1, 2, 3): Bi-directional, Optoisolated, 1-28
V rated ($I_{CE} < 100$ mA at 24 VDC, current
limited by user)**ILLUMINATION**High-Output LEDs: Inner: 4 Red, 4 White;
Outer: 24 Red (624 nm)**INDICATORS**TRIG, PASS, FAIL, MODE, LINK, PWR LEDs;
2 Target Pattern LEDs; 2 Good Read Green
Flash LEDs**SPEED**

High-Speed (Maximum Sensor FPS)

MEMORY

2 GB Non-Volatile Flash, 256 MB RAM

DECODER

X-Mode (Poor or Damaged 1D/2D + DPM)

OPTICS

High-Density, UHD

SENSOR

WVGA (Mono): CMOS 0.34 MP (752 x 480)

SXGA (Mono): CMOS 1.2 MP (1280 x 960)

SHUTTER

Global (WVGA, SXGA)

EXPOSURE50 - 100,000, Default: 2,500 μ s**FOCUS**

HD: Liquid Lens Autofocus (42 - 300 mm)

UHD: Liquid Lens Autofocus (32 - 150 mm)

ACQUISITION SPEED

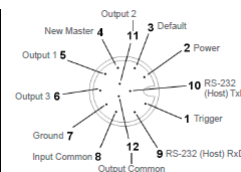
Up to 42 FPS (SXGA)

SYMBOLOGIES2D: Data Matrix (ECC 0-200), QR Code,
Micro QR Code, Aztec CodeStacked: PDF417, MicroPDF417,
GS1 Databar (Composite and Stacked)Linear: Code 39, Code 128, BC412,
Interleaved 2 of 5, UPC/EAN, Codabar,
Code 93, Pharmacode, PLANET, POSTNET,
Japanese Postal, Australia Post, Royal Mail,
Intelligent Mail, KIX**SAFETY AND QUALITY**

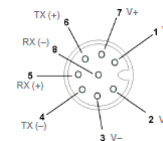
FCC, CE, RoHS-Compliant

QMS CERTIFICATIONwww.microscan.com/quality**CONNECTOR A: M12 12-Pin Plug**

Pin	Function
1	Trigger
2	Power
3	Default
4	New Master
5	Output 1
6	Output 3
7	Ground
8	Input Common
9	Host Rx/D
10	Host Tx/D
11	Output 2
12	Output Common

**CONNECTOR B: M12 8-Pin Socket**

Pin	Function
1*	V+
2*	V-
3*	V-
4	TX (-)
5	RX (+)
6	TX (+)
7*	V+
8	RX (-)

*24V Passive PoE Only,
MODE B Only©2018 Omron Microscan Systems, Inc. SP102A-EN-0518
Specifications are subject to change. For complete technical information,
please see the user manual. For current warranty information about this
product, please visit www.microscan.com/warranty.
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MICROHAWK® ID-45 FIELD OF VIEW AND READ RANGE CHARTS

WVGA and SXGA Autofocus, HD

Object Distance Std Models		WVGA HIGH-DENSITY AUTOFOCUS			
		Horizontal Field of View		Vertical Field of View	
in.	mm	in.	mm	in.	mm
2.0	50	1.3	33.5	0.8	21.5
2.5	64	1.7	42.0	1.0	26.5
3.2	81	2.1	52.5	1.3	33.0
4.0	102	2.6	65.0	1.6	41.0
5.2	133	3.3	84.5	2.1	53.5
7.5	190	4.7	119.5	3.0	75.0
11.8	300	7.4	187.0	4.6	117.0

Object Distance Std Models		SXGA HIGH-DENSITY AUTOFOCUS			
		Horizontal Field of View		Vertical Field of View	
in.	mm	in.	mm	in.	mm
2.0	50	1.4	36.5	1.1	27.4
2.5	64	1.8	46.0	1.4	34.5
3.2	81	2.3	57.2	1.7	42.9
4.0	102	2.8	71.4	2.1	53.6
5.2	133	3.6	90.5	2.7	67.9
7.5	190	5.0	127.0	3.8	95.3
11.8	300	7.8	198.4	5.9	148.8

Symbol Size		WVGA High-Density Read Range Testings			
(mils)		IE (mm)	PPE	OE (mm)	PPE
3.3		50	1.9	53	1.8
5		50	2.8	57	2.5
7.5		50	4.2	61	3.6
10		50	5.6	64	4.6
15		50	8.5	71	6.3

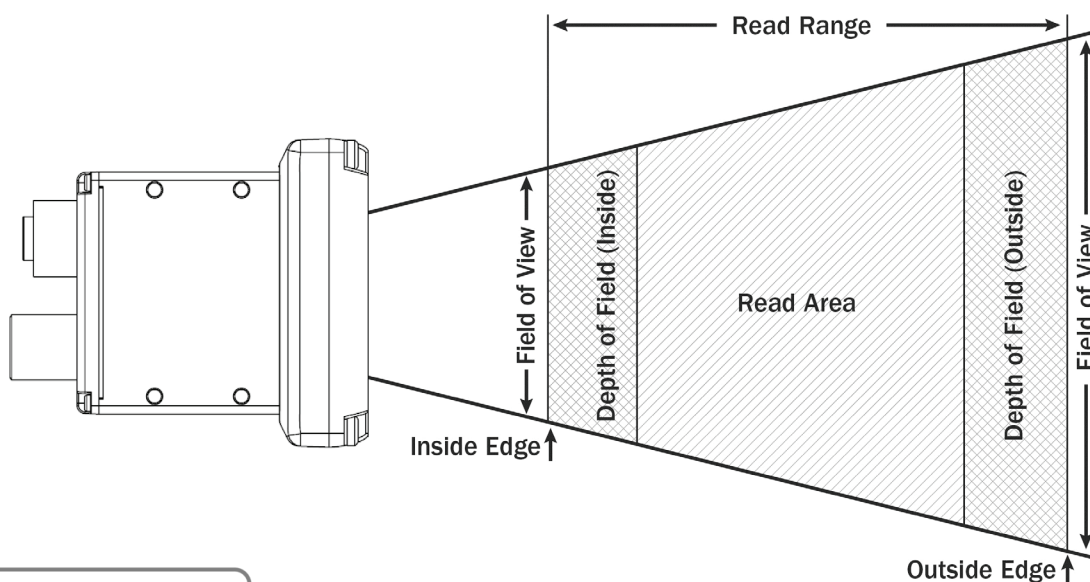
Symbol Size		SXGA High-Density Read Range Testings			
(mils)		IE (mm)	PPE	OE (mm)	PPE
3.3		50	3.0	NA	NA
5		50	4.6	144	1.7
7.5		50	6.8	208	1.8
10		50	9.2	291	1.7
15		50	13.9	374	2

Note: Minimum 1D element is typically 1/2 the size of minimum 2D element. Example: 10 mil 2D = 5 mil 1D.

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SXGA Autofocus, UHD

SXGA UHD AUTOFOCUS			
Min. 2D Element	Horizontal Field of View (mm)		Read Range (mm)
mil size	Inside	Outside	Autofocus
2	10	24	40 - 104
3.3	10	36	40 - 146
5	10	39	40 - 150



Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl