Ultra-Compact
Height: 25 mm (0.98”)
Width: 45 mm (1.77”)
Length: 45 mm (1.77”)

Integrated LEDs

MicroHAWK ID-40
Specifications and Options

DIMENSIONS
Height: 25 mm (0.98”)
Width: 45 mm (1.77”)
Length: 45 mm (1.77”)
Weight: 68 g (2.40 oz.)

ENCLOSURE
IP-65/67, Aluminum

ENVIRONMENTAL
Operating Temperature: 0° to 40° C
(32° to 104° F)
Storage Temp.: -50° to 75° C
(-58° to 167° F)
Humidity: 5% to 95% (non-condensing)
Operating Life: 50,000 hours @ 25° C

EMISSIONS
EN 55022:2010 Class A Limits

ELECTRICAL
4.75-30 VDC, 200 mV p-p max ripple,
150 mA at 24 VDC (typ.)

CONNECTOR
M12 12-Pin Power, M12 8-Pin Ethernet

COMMUNICATION
RS-232, Ethernet TCP/IP, EtherNet/IP,
Power over Ethernet (PoE)

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_{OL} < 100 mA at 24 VDC, current limited
by user)

ILLUMINATION
High-Output LEDs: Inner: 4 Red (625 nm),
4 White; Outer: 8 Red or 8 White (optional)

INDICATORS
TRIG, PASS, FAIL, MODE, LINK, PWR LEDs;
2 Target Pattern LEDs; 2 Good Read Green
Flash LEDs

SPEED
Standard (up to 10 FPS) or High-Speed
(Max. Sensor FPS)

MEMORY
2 GB Non-Volatile Flash, 256 MB RAM

DECODER
Standard (High-Contrast 1D);
Plus (High-Contrast 1D/2D);
X-Mode (Poor or Damaged 1D/2D + DPM)

DETECTION
Standard or High-Density

SENSOR OPTIONS
WVGA (Mono): CMOS 0.34 MP (752 x 480)
SXGA (Mono): CMOS 1.2 MP (1280 x 960)
QXSXGA (Color): CMOS 5 MP (2592 x 1944)

SHUTTER
Global (WVGA, SXGA), Rolling (QXSXGA)

EXPOSURE
50 - 100,000; Default: 2,500 μs

FOCUS
Fixed (50-300 mm) or Liquid Lens Autofocus

FRAMES PER SECOND
WVGA: Up to 60; SXGA: Up to 42;
QXSXGA: Up to 5

SYMBOLOGIES
2D: Data Matrix (ECC 0-200),
QR Code, Micro QR Code, Aztec Code
Stacked: 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 CERTIFICATION
www.microscan.com/quality

www.microscan.com
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Specifications are subject to change.
For complete technical information, please see the

Warranty – For current warranty information about this product,
please visit www.microscan.com/warranty.

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### MicroHAWK ID-40 Read Ranges

#### WVGA Sensor Read Ranges

<table>
<thead>
<tr>
<th>Focal Distance</th>
<th>Field of View</th>
<th>Typical 2D Mil Size</th>
<th>Depth of Field (mm)</th>
<th>Min. 2D Mil Size</th>
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#### SXGA Sensor Read Ranges

<table>
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#### QSXGA Sensor Read Ranges

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</tbody>
</table>

### Example Read Range:

- **WVGA Sensor Read Range:**
  - WVGA Standard Density: 102 mm / 4 in. Focal Distance
  - Example Read Range: 10 mil 1D | 20 mil 2D

- **SXGA Sensor Read Range:**
  - SXGA Standard Density: 102 mm / 4 in. Focal Distance
  - Example Read Range: 5 mil 1D | 10 mil 2D

- **QSXGA Sensor Read Range:**
  - QSXGA Standard Density: 102 mm / 4 in. Focal Distance
  - Example Read Range: 3.3 mil 1D | 7.5 mil 2D

**Note:** Minimum 1D element is typically 1/2 the size of minimum 2D element. Example: 10 mil 2D = 5 mil 1D. Specifications are subject to change. For complete technical information, please see the MicroHAWK ID-20/ID-30/ID-40 User Manual, available at [www.microscan.com](http://www.microscan.com).