**MicroHAWK ID-30**

**Specifications and Options**

- **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)

- **DENSITY**
  - Standard or High-Density

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

- **SHUTTER**
  - Global (WVGA, SXGA), Rolling (QSXGA)

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

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

- **SYMBOLOGIES**
  - 2D: Data Matrix (ECC 0-200), QR Code, Micro QR Code, Aztec Code
  - Stacked: PDF417, MicroPDF417, GS1 Databar (Composite and Stacked)

- **SPEED and QUALITY**
  - FCC, CE, RoHS-Compliant

- **WebLink Interface Onboard**

- **DIMENSIONS**
  - Height: 25 mm (0.98")
  - Width: 45 mm (1.77")
  - Length: 38 mm (1.50")
  - Weight without Cable: 46 g (1.62 oz.)

- **ENCLOSURE**
  - IP54, 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**
  - 5 VDC ± 5%; 600 mA at 5 VDC (typ.)

- **CONNECTOR**
  - High-Density 15-Pin D-Sub

- **CABLE**
  - 0.91 m

- **COMMUNICATION**
  - RS-232, USB 2.0 High Speed, Ethernet over USB/HID

- **DISCRETE I/O**
  - 3 in/3 out; Trigger Input: 5-28 V rated (0.16 mA @ 5 VDC); New Master: 5 to 28 V rated (0.16 mA @ 5 VDC); Default: 3.3 V rated (0 mA @ 3.3 V); Outputs: 1, 2, 3; 5 V TTL-compatible, can sink 10 mA and source 10 mA

- **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

- **FUSE**
  - 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)

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

- **SYMBOLOGIES**
  - 2D: Data Matrix (ECC 0-200), QR Code, Micro QR Code, Aztec Code
  - Stacked: PDF417, MicroPDF417, GS1 Databar (Composite and Stacked)

- **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 MicroHAWK ID-30 User Manual, available at www.microscan.com.

Warranty – For current warranty information about this product, please visit www.microscan.com/warranty.
### MicroHAWK ID-30 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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<th>Typical 2D Mil Size</th>
<th>Depth of Field (mm)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>in. mm</td>
<td>in. mm</td>
<td>mil size</td>
<td>Inside Outside</td>
<td>mil size</td>
<td>in. mm</td>
<td>mil size</td>
<td>Inside Outside</td>
<td>mil size</td>
</tr>
<tr>
<td>2.0 50</td>
<td>1.4 35</td>
<td>7.5 43 58</td>
<td>5</td>
<td>2.0 50 10</td>
<td>38 65 7.5</td>
<td>2.2 55 10</td>
<td>49 78 7.5</td>
<td>5</td>
</tr>
<tr>
<td>2.5 64</td>
<td>1.5 38</td>
<td>7.5 55 73</td>
<td>5</td>
<td>2.8 70 15</td>
<td>56 106 10</td>
<td>4.5 115 20</td>
<td>78 187 15</td>
<td>5</td>
</tr>
<tr>
<td>3.2 81</td>
<td>1.9 49</td>
<td>10 65 97 7.5</td>
<td>5</td>
<td>3.7 94 20</td>
<td>52 152 15</td>
<td>6.5 165 30</td>
<td>128 252 20</td>
<td>5</td>
</tr>
<tr>
<td>4.0 102</td>
<td>2.6 65</td>
<td>10 83 121 10</td>
<td>5</td>
<td>10.2 260 40</td>
<td>219 381 30</td>
<td>5</td>
<td>10</td>
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</tr>
<tr>
<td>5.2 133</td>
<td>3.1 80</td>
<td>15 90 176 10</td>
<td>5</td>
<td>10.2 260 40</td>
<td>219 381 30</td>
<td>5</td>
<td>10</td>
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</tr>
<tr>
<td>7.5 190</td>
<td>4.5 114</td>
<td>20 133 246 15</td>
<td>5</td>
<td>10.2 260 40</td>
<td>219 381 30</td>
<td>5</td>
<td>10</td>
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</tr>
<tr>
<td>11.8 300</td>
<td>7.1 180</td>
<td>30 179 422 30</td>
<td>5</td>
<td>10.2 260 40</td>
<td>219 381 30</td>
<td>5</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Example Read Range:**

**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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