QX Hawk: 요약
- 복호화/최고: 최고 60
- 판독 범위: 1"(30mm) - 무한대
- 액체 렌즈 자동 초점 및 모듈식 확대/축소
- 통합된 이더넷 네트워킹
- 구성 옵션: 0.4MP CMOS 또는 1.3MP CCD

QX Hawk: 사용 범위
- 인쇄 회로 기판
- 전자제품 및 반도체 제조
- 자동차
- 우주항공
- 의료 기기

본 제품에 대한 상세 정보는 www.microscan.com을 방문하십시오.
**Specifications and Options**

**QX Hawk Flexible, Industrial Imager**

**MECHANICAL (INTEGRATED OPTICS)**
- Height: 1.59" (40.5 mm)
- Width: 2.27" (57.6 mm)
- Depth: 3.79" (96.3 mm)
- Weight: 10 oz. (280 g)

**MECHANICAL (C-MOUNT OPTICS)**
- Height: 4.03" (102.3 mm)
- Width: 2.27" (57.6 mm)
- Depth: 1.59" (40.5 mm)
- Weight: 11 oz. (320 g)

**ENVIRONMENTAL**
- Focus: Focal Range:
  - 1" (33 mm) to ∞ (liquid lens auto focus)
- Operating Temperature: -20º to 158º F
- Storage Temperature: -29º to 70º C
- Humidity: Up to 90% (non-condensing)

**COMMUNICATION INTERFACE**
- Interface: RS-232/422/485 or Ethernet

**ELECTRICAL**
- CMOS Decode Rate: 655 nm nominal
- Sensor: 1/3 inch
- Output Wavelength: 655 nm nominal
- Operating Life: 50,000 hours @ 25º C
- Safety Class: Visible laser: Class 1

**LIGHT SOURCE (INTEGRATED OPTICS)**
- Type: High output LEDs

**SYMBOLOGIES**
- 2D Symbologies: Data Matrix (ECC 0-200), QR Code, Micro QR Code, HyperMatrix
- 2D Symbologies: PDF417, Micro PDF417, GS1 Databar (Composite & Stacked)

**READ PARAMETERS**
- Pitch: ±3º
- Skew: ±3º
- Tilt: 360º
- CMOS Decode Rate: Up to 60 decodes per second
- CCD Decode Rate: Up to 20 decodes per second
- Focal Range: 1" (33 mm) to ∞ (liquid lens autofocus)

**APPLICATIONS**
- Network activity, I/O
- Beepers: Symbol locator, Read Performance, Power, Read Status, Match/mismatch, noread, serial command confirmation, on/off
- INTEGRATED OPTICS MODEL ONLY: Green Flash: Good read, Red X: Symbol locator

**COMMERCIAL INFORMATION**
- CE MARK
- General Immunity for Light Industry: EN 55022:98 ITE Disturbances
- Radiated and Conducted Emissions of ITE
- General Immunity for Light Industry: EN 55022:98 ITE Disturbances
- RoHS/WEEE COMPLIANT

**SAFETY CERTIFICATIONS**
- CDRH, FCC, UL/CUL, CE, CB, BSMI (compliant)

**ISO CERTIFICATION**
- Certified ISO 9001:2008 Quality Management System

**WARRANTY**
- One year limited warranty on parts and labor. Free extended 3 year warranty upon online product registration.

**PRODUCTS**
- CMOS Power Requirement: 5-28 VDC, 500 mA
- CCD Power Requirement: 5-28 VDC, 200 mA
- Discrete I/O
- Input 1/Trigger/New Master: Bi-directional, optoisolated, 4.5–28V, up to 105 mA at 24 VDC
- Outputs (1, 2, & 3): Bi-directional, optoisolated, 1–28V, up to 20 mA

**CONTACT INFORMATION**
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  - Fax: 425 226 8250
- Microscan Asia Pacific
  - Headquarters: 65 6846 1214 | Fax: 65 6846 4641
- Microscan Korea Office
  - Headquarters: 031 387 8023 | Fax: 031 387 8025

**WEB SITE**
- www.microscan.com
- info@microscan.com
- helpdesk@microscan.com

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### INTEGRATED OPTICS MODEL: CMOS MODULAR ZOOM OPTICS

#### Inches (mm)

<table>
<thead>
<tr>
<th>Narrow-bar-width</th>
<th>Read Range (using autofocus)</th>
<th>Field of View</th>
<th>Depth of Field</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1D</td>
<td>At Inside Edge</td>
<td>At Outside Edge</td>
</tr>
<tr>
<td></td>
<td>2D</td>
<td>Inside Edge</td>
<td>Outside Edge</td>
</tr>
<tr>
<td>0.0033 (0.08)</td>
<td>1 to 6 (25 to 152)</td>
<td>0.53 (13)</td>
<td>1.8 (46)</td>
</tr>
<tr>
<td>0.0075 (0.19)</td>
<td>1 to 14 (25 to 356)</td>
<td>0.53 (13)</td>
<td>3.5 (89)</td>
</tr>
<tr>
<td>0.0150 (0.38)</td>
<td>2 to 29 (51 to 737)</td>
<td>0.53 (13)</td>
<td>7.5 (191)</td>
</tr>
<tr>
<td>0.0300 (0.76)</td>
<td>3 to 60 (76 to 1524)</td>
<td>1.03 (26)</td>
<td>19.5 (394)</td>
</tr>
<tr>
<td>0.0600 (1.52)</td>
<td>6 to 96 (152 to 2438)</td>
<td>1.08 (27)</td>
<td>25 (635)</td>
</tr>
</tbody>
</table>

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<td>Outside Edge</td>
</tr>
<tr>
<td>0.0075 (0.19)</td>
<td>1 to 5 (25 to 127)</td>
<td>1.3 (33)</td>
<td>4.1 (104)</td>
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<tr>
<td>0.0150 (0.38)</td>
<td>1 to 16 (25 to 406)</td>
<td>1.3 (33)</td>
<td>7.5 (191)</td>
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<tr>
<td>0.0300 (0.76)</td>
<td>1 to 23.5 (25 to 597)</td>
<td>1.3 (33)</td>
<td>18.3 (465)</td>
</tr>
</tbody>
</table>

**NOTE:** Read ranges are for specific element sizes as listed in the tables. Read ranges can extend to an infinite distance beyond the tables by increasing element sizes.

### INTEGRATED OPTICS MODEL: CCD MODULAR ZOOM OPTICS

#### Inches (mm)

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</tr>
<tr>
<td></td>
<td>2D</td>
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<td>Outside Edge</td>
</tr>
<tr>
<td>0.002 (0.05)</td>
<td>1 to 6 (25 to 152)</td>
<td>0.53 (13)</td>
<td>1.8 (46)</td>
</tr>
<tr>
<td>0.005 (0.13)</td>
<td>1 to 14 (25 to 356)</td>
<td>0.53 (13)</td>
<td>3.5 (89)</td>
</tr>
<tr>
<td>0.010 (0.25)</td>
<td>2 to 29 (51 to 737)</td>
<td>0.53 (13)</td>
<td>7.5 (191)</td>
</tr>
<tr>
<td>0.020 (0.51)</td>
<td>3 to 60 (76 to 1524)</td>
<td>1.03 (26)</td>
<td>19.5 (394)</td>
</tr>
<tr>
<td>0.040 (1.02)</td>
<td>6 to 96 (152 to 2438)</td>
<td>1.08 (27)</td>
<td>25 (635)</td>
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</tbody>
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</tr>
<tr>
<td></td>
<td>2D</td>
<td>Inside Edge</td>
<td>Outside Edge</td>
</tr>
<tr>
<td>0.002 (0.05)</td>
<td>1 to 3 (25 to 76)</td>
<td>0.83 (21)</td>
<td>1.8 (46)</td>
</tr>
<tr>
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<td>0.83 (21)</td>
<td>3.5 (89)</td>
</tr>
<tr>
<td>0.010 (0.25)</td>
<td>2 to 29 (51 to 737)</td>
<td>0.83 (21)</td>
<td>7.5 (191)</td>
</tr>
<tr>
<td>0.020 (0.51)</td>
<td>3 to 60 (76 to 1524)</td>
<td>1.03 (26)</td>
<td>16.4 (417)</td>
</tr>
</tbody>
</table>

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