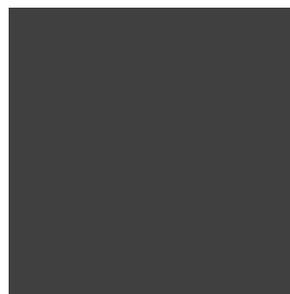


Small  
Powerful  
Agile  
Intuitive  
**Simply Incredible**



# MICRO HAWK

Barcode Readers



**MICROSCAN®**

**1982**  
Company Founded

Products Sold  
**1 Million**

**100+**  
Technology Patents

Worldwide Offices  
**22**

**300+**  
Partners Worldwide

## Microscan: Barcode Reading At Its Best

Microscan provides today's industrial professionals with the most user-friendly barcode reading platforms, thoughtfully engineered to meet tomorrow's challenges. Our barcode readers enable faster, more accessible, and broader data communication in a wide range of applications.

As the inventor of the first laser diode barcode scanner, our company was founded on technology innovation and continues to be a technology leader today. Microscan holds one of the world's most extensive patent portfolios for barcode reading technology, including laser scanning, imaging technologies, hardware, and software.

Microscan is in a continuous process of research and development to provide cutting-edge technology and complete solutions for auto ID barcode applications. Today, we provide fast, reliable reading solutions for all symbologies. Our products read any linear barcode or 2D symbol printed or marked by any means, with a versatility and ease-of-use unprecedented in the industry.

Microscan products are sold and supported through a global network of partners and systems integrators who specialize in automation solutions. The network includes more than 300 experienced automation integrators and value-added resellers in over 30 countries who provide highly-specialized local support.



# MicroHAWK: Simply Incredible

Mini is now micro. Ease of use is now intuitive. Performance is now available in any configuration. Barcode reading is now simply incredible. Meet MicroHAWK, the next generation of industrial barcode readers. Built on the highest-performance imaging engine in its class, MicroHAWK barcode readers offer an array of modular hardware options to take on any decoding task in three micro-form-factors. No software to install, no compatibility obstacles, no experience needed. Just plug in and open a browser.



- World's smallest industrial barcode readers
- Read any code on any surface
- User-friendly barcode reading platform
- Customizable hardware options

| Features                      | ID-20       | ID-30       | ID-40          |
|-------------------------------|-------------|-------------|----------------|
| 1D Omnidirectional Barcodes   | ●           | ●           | ●              |
| 1D/2D Barcodes                | ●           | ●           | ●              |
| Damaged Barcodes              | ●           | ●           | ●              |
| Direct Part Mark (DPM)        |             | ●           | ●              |
| Enclosure                     | <b>IP40</b> | <b>IP54</b> | <b>IP65/67</b> |
| Ethernet TCP/IP, EtherNet/IP™ |             |             | ●              |
| Ethernet over USB             | ●           | ●           |                |
| Serial (RS-232)               |             | ●           | ●              |
| USB 2.0 High Speed            | ●           | ●           |                |
| Outer Illumination            |             | ●           | ●              |
| Standard or High-Density      | ●           | ●           | ●              |
| Color Sensor                  | ●           | ●           | ●              |
| High-Speed                    |             | ●           | ●              |
| WebLink User Interface        | ●           | ●           | ●              |

## MicroHAWK Engine

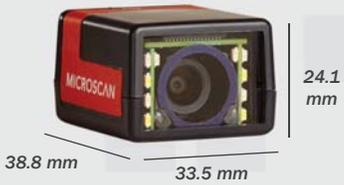


- Provides the full range of capabilities for all readers in the MicroHAWK family
- Smallest fully-integrated imaging engine available
- Lightweight, feature-rich, and ready for easy integration into a wide range of instruments and machines

## Microscan's WebLink User Interface



- Compatible with any USB or Ethernet MicroHAWK reader
- Set up, test, and control your reader from the browser of your choice
- World's first web-based barcode reader interface
- No software to download or install



## Incredibly Small

Designed specifically for integration into the tightest spaces, MicroHAWK barcode readers are the most compact, lightweight, and durable devices for tough industrial environments. The ID-40 is the world's smallest industrial IP65/67-rated barcode reader available. MicroHAWK readers include features such as integrated lighting and targeting LEDs, flexible cabling, omnidirectional reading, and variable read ranges from 50 to 300 mm (2 to 12 in.) to read codes in any orientation at close range.



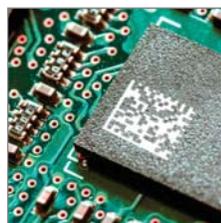
**ID-40**  
**SMALLEST**  
 Industrial IP65/67-Rated  
 Barcode Reader Ever

### MicroHAWK Readers Can Decode:

- Directly-printed barcodes on labels
- Directly-marked Data Matrix including dot peen, laser etch, and ink jet
- Low contrast, scratched, or poorly-printed barcodes
- Mix of 1D and 2D barcodes on a single part or package

## Incredibly Powerful

When the ability to read challenging barcodes and marks is critical to success, count on MicroHAWK. Damaged and incomplete symbols are processed by X-Mode algorithms to render damaged symbols readable despite unpredictable print issues, scratches, or obstructions. For reliable decoding at the speed you need, MicroHAWK readers come standard with speeds up to 10 frames per second (FPS). High-Speed options are also available with speeds up to 60 FPS.



# Incredibly Agile

MicroHAWK offers nearly endless configurations in three micro-form-factor barcode readers. Sensor, speed, lighting, and decoding power can be selected in any combination and packaged into the MicroHAWK reader of your choice with the ideal dimensions, connectivity, and industrial rating to meet your requirements. Tailor the performance of these readers to meet the exact requirements of your barcode reading application for optimal size, connectivity, and cost-efficiency. From omnidirectional decoding of 1D barcodes to tough, low-contrast 2D symbols, any MicroHAWK reader can be engineered with the exact features you need.



**SENSOR:**  
WVGA, SXGA  
or QSXGA



**DECODER:**  
Standard, Plus,  
or X-Mode



**SPEED:**  
Standard or  
High-Speed



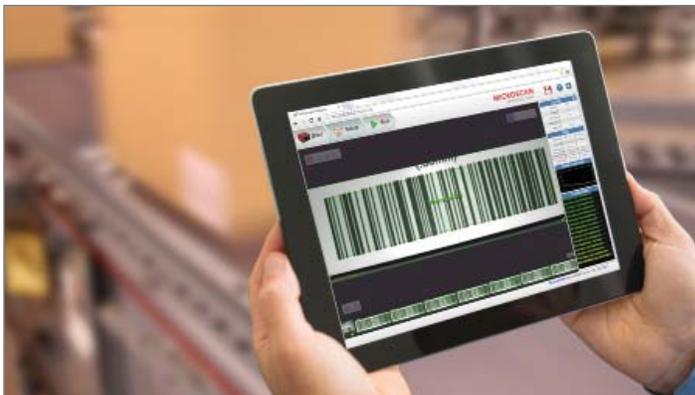
**LENS:**  
Standard or  
High-Density



**LIGHTING:**  
Inner/Outer;  
Red or White LEDs

# Incredibly Intuitive

Experience is optional. MicroHAWK barcode readers are the easiest industrial devices to set up and install. Begin reading right out of the box within seconds. Just connect power, open a web browser, and start decoding. Use a PC, laptop, tablet, or any device with a web browser to set up a reader and view decoded data and barcode images in real time using WebLink, Microscan's intuitive barcode reader interface. Make adjustments to reader settings without physical access to the reader itself. With the most intuitive controls of any barcode setup tool, WebLink finally brings the age of usability to industrial barcode reading.



# 1764

Possible hardware/software combinations to solve **ANY** barcode application

1



2



3





- Ultra-compact (19.5 mm x 28.7 mm x 33.9 mm)
- USB 2.0 High Speed, Ethernet over USB
- X-Mode 4.0 advanced decoding algorithms
- Integrated targeting and read/pass indicators
- Programmable red or white LED illumination
- WebLink browser-based setup interface

#### AVAILABLE DECODERS

- Standard: High-contrast 1D barcodes
- Plus: High-contrast 1D/2D barcodes
- X-Mode: All 1D/2D, including damaged or poorly-printed barcodes

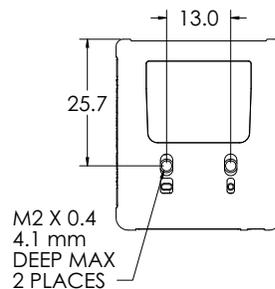
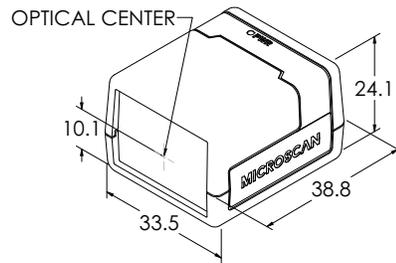
#### AVAILABLE ILLUMINATION

- Inner: 8 LEDs come standard; programmable red or white

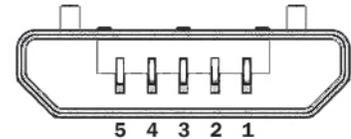
## ID-20 OEM Barcode Reader

The world's smallest full-featured and fully-integrated barcode imager, ID-20 offers OEMs and engineers a perfect set of value and performance options in a tiny, simple, and streamlined solution for embedded designs or WIP traceability.

ID-20, the only reader of its kind, offers a single-cable solution that uses USB for both communication (USB 2.0 High Speed and Ethernet over USB) and power to enable plug-and-play integration. Mini is now micro and incredibly easy to use.



#### PIN ASSIGNMENTS Micro-B USB Socket



| Pin | Function  |
|-----|-----------|
| 1   | Vbus (5V) |
| 2   | D-        |
| 3   | D+        |
| 4   | NC        |
| 5   | Ground    |

#### APPLICATION EXAMPLES

- Life sciences and clinical instrumentation
- Laboratory automation and dispensing
- Electronics assembly and test
- Kiosk and ticketing



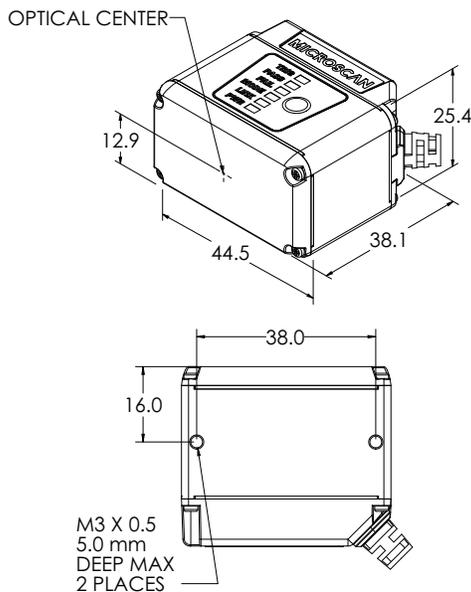
Note: Specifications are subject to change.

For complete technical information, please see the User Manual available at [www.microscan.com](http://www.microscan.com).

# ID-30 Miniature Barcode Reader

A micro-sized barcode imager with huge potential, the ID-30 furthers Microscan's 30+ year legacy of innovative, space-efficient, miniature design with a corner-exit cable and high-density 15-pin connector (offering serial, USB 2.0 High Speed, and Ethernet over USB capabilities).

Perfect for OEMs and machine builders, the ID-30 offers the perfect combination of size, performance, and flexible integration. The ID-30 outperforms any reader in its class and is the ideal solution for automation engineers looking for incredible performance in a micro-sized product.



## PIN ASSIGNMENTS High-Density 15-Pin Dsub Socket

| Pin | Function    |
|-----|-------------|
| 1   | +5VDC       |
| 2   | TX232       |
| 3   | RX232       |
| 4   | GND         |
| 5   | D+          |
| 6   | N/C         |
| 7   | Output 1+   |
| 8   | Default+    |
| 9   | Trigger+    |
| 10  | D-          |
| 11  | Output 3+   |
| 12  | New Master+ |
| 13  | Chassis     |
| 14  | Output 2+   |
| 15  | Vbus        |

Note: Accessory cable required between 15-pin socket and host USB port.

## APPLICATION EXAMPLES

- Clinical instruments:**
  - Embedded barcode reading
  - Sample tracking and vial reading
- Medical devices:**
  - Dot peen or laser marks on products
- Electronics:**
  - Laser markings on PCBs
  - Sub-assembly tracking
- Semiconductors:**
  - Laser marks on packages and components



- Ultra-compact (44.5 mm x 38.1 mm x 25.4 mm)
- Serial, USB 2.0 High Speed, Ethernet over USB
- X-Mode 4.0 advanced decoding algorithms
- Integrated targeting and read/pass indicators
- Programmable red or white LED illumination
- WebLink browser-based setup interface

## AVAILABLE DECODERS

- Standard: High-contrast 1D barcodes
- Plus: High-contrast 1D/2D barcodes
- X-Mode: All 1D/2D, including low-contrast, damaged, or poorly-printed barcodes; Direct Part Marks (DPM)

## AVAILABLE ILLUMINATION

- Inner: 8 LEDs come standard; programmable red or white
- Outer: 8 additional high-output LEDs are optional; available in red or white

Note: Specifications are subject to change.

For complete technical information, please see the User Manual available at [www.microscan.com](http://www.microscan.com).



- Ultra-compact (44.5 mm x 44.5 mm x 25.4 mm)
- High-speed Ethernet, serial (RS-232)
- X-Mode 4.0 advanced decoding algorithms
- Integrated targeting and read/pass indicators
- Programmable red or white LED illumination
- WebLink browser-based setup interface

#### AVAILABLE DECODERS

- Standard: High-contrast 1D barcodes
- Plus: High-contrast 1D/2D barcodes
- X-Mode: All 1D/2D, including low-contrast, damaged or poorly-printed barcodes; Direct Part Marks (DPM)

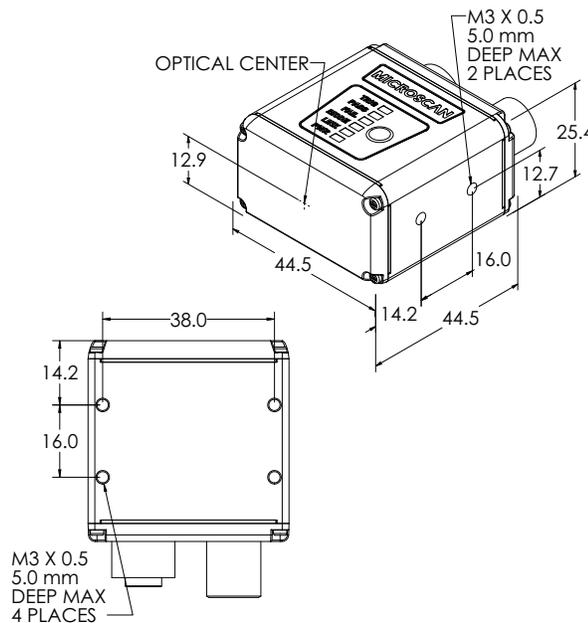
#### AVAILABLE ILLUMINATION

- Inner: 8 LEDs come standard; programmable red or white
- Outer: 8 additional high-output LEDs are optional; available in red or white

# ID-40 Industrial Ethernet Barcode Reader

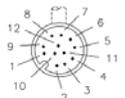
A revolutionary new product, the ID-40 redefines the imager market as the smallest IP65/67-rated, true-industrial Ethernet barcode reader. With best-in-class decoding technology for 1D/2D or DPM codes in a rugged, ultra-compact case, the ID-40 is the complete package for solving any barcode reading challenge under any conditions.

Combining unprecedented ease-of-use, exceptional decode performance, and ultra-small form factor, the ID-40 sets the benchmark as the ultimate compact imager in the industry.



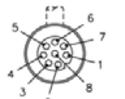
#### CONNECTOR A M12 12-pin plug:

| Pin | Function      |
|-----|---------------|
| 9   | Host RxD      |
| 10  | Host TxD      |
| 2   | Power         |
| 7   | Ground        |
| 1   | Trigger       |
| 8   | Input Common  |
| 3   | Default       |
| 4   | New Master    |
| 5   | Output 1      |
| 11  | Output 2      |
| 6   | Output 3      |
| 12  | Output Common |



#### ETHERNET CONNECTOR B M12 8-pin socket:

| Pin | Function   |
|-----|------------|
| 1   | Reserved   |
| 2   | Terminated |
| 3   | Reserved   |
| 4   | TX (-)     |
| 5   | RX (+)     |
| 6   | TX (-)     |
| 7   | Terminated |
| 8   | RX (-)     |



#### APPLICATION EXAMPLES

- Assembly line manufacturing
- Component tracking
- Automotive:
  - Dot peen on powertrain components
  - Laser marks on automotive electronics
- Medical devices:
  - Laser marks on components
- Electronics:
  - Laser markings on PCBs
- Semiconductors:
  - Laser marks on packages and components



Note: Specifications are subject to change.

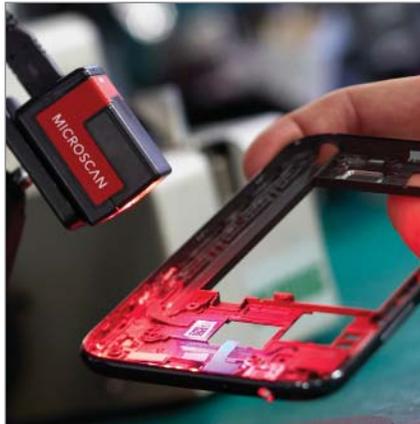
For complete technical information, please see the User Manual available at [www.microscan.com](http://www.microscan.com).



# Superior Barcode Reading for Any Industry

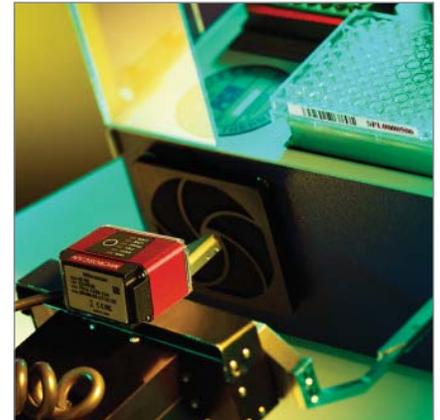
Data accuracy and reliability are critical for modern manufacturers. MicroHAWK barcode readers offer the widest range of hardware options available to meet any industrial need, all within a miniature form factor that has virtually unlimited integration potential.

With no software to install, and no compatibility obstacles, MicroHAWK solves the toughest barcoding challenges for manufacturers in a diverse range of applications and industries around the world.



## ELECTRONICS

- Component and PCB traceability
- Sub-assembly tracking
- Automated line changeover
- Quality assurance
- WIP tracking



## LIFE SCIENCES

- Sample tracking
- Medical device tracking
- Test level traceability
- Vial reading and verification



## PACKAGING:

- Match inserts to packaging
- Item traceability
- Quality assurance
- Anti-counterfeiting measures
- Package sortation
- Carton coding
- Print and apply



## OTHER INDUSTRIES:

- Automotive
- Aerospace
- DoD and IUID
- Contract manufacturing
- Document handling
- Kiosks and self-service terminals

# MicroHAWK Product Specifications

|                      | ID-20   |                             |                             | ID-30  |                             |                             | ID-40  |                             |                             |
|----------------------|---|-----------------------------|-----------------------------|--|-----------------------------|-----------------------------|--|-----------------------------|-----------------------------|
| <b>DECODER</b>       | Standard (High-Contrast 1D)                   |                             |                             | Standard (High-Contrast 1D)  |                             |                             | Standard (High-Contrast 1D)  |                             |                             |
|                      | Plus (High-Contrast 1D/2D)                    |                             |                             | Plus (High-Contrast 1D/2D)   |                             |                             | Plus (High-Contrast 1D/2D)   |                             |                             |
| <b>SPEED</b>         | X-Mode<br>(Poor or Damaged 1D/2D)             |                             |                             | X-Mode<br>(Poor or Damaged 1D/2D + DPM)  |                             |                             | X-Mode<br>(Poor or Damaged 1D/2D + DPM)  |                             |                             |
|                      | Standard (up to 10 FPS)                       |                             |                             | Standard (up to 10 FPS)<br>or High-Speed (max. sensor FPS)   |                             |                             | Standard (up to 10 FPS)<br>or High-Speed (max. sensor FPS)   |                             |                             |
| <b>DENSITY</b>       | Standard or High-Density                      |                             |                             | Standard or High-Density   |                             |                             | Standard or High-Density   |                             |                             |
| <b>SENSOR (CMOS)</b> | WVGA<br>0.34MP<br>(752x480)                   | SXGA<br>1.2MP<br>(1280x960) | QSXGA<br>5MP<br>(2592x1944) | WVGA<br>0.34MP<br>(752x480)  | SXGA<br>1.2MP<br>(1280x960) | QSXGA<br>5MP<br>(2592x1944) | WVGA<br>0.34MP<br>(752x480)  | SXGA<br>1.2MP<br>(1280x960) | QSXGA<br>5MP<br>(2592x1944) |
| <b>SHUTTER</b>       | Global  |                             | Rolling                     | Global   |                             | Rolling                     | Global   |                             | Rolling                     |
| <b>FPS</b>           | 60  | 42                          | 5                           | 60   | 42                          | 5                           | 60   | 42                          | 5                           |
| <b>EXPOSURE</b>      | 50 - 100,000<br>Default: 2,500 $\mu$ s        |                             |                             | 50 - 100,000<br>Default: 2,500 $\mu$ s   |                             |                             | 50 - 100,000<br>Default: 2,500 $\mu$ s   |                             |                             |
| <b>COLOR</b>         | QSXGA only                                    |                             |                             | QSXGA only   |                             |                             | QSXGA only   |                             |                             |
| <b>FOCUS</b>         | Fixed Focus<br>(Factory Adjustable 50-300 mm) |                             |                             | Fixed Focus<br>(Factory Adjustable 50-300 mm)  |                             |                             | Fixed Focus<br>(Factory Adjustable 50-300 mm)  |                             |                             |
| <b>CONNECTIVITY</b>  | USB 2.0 High Speed,<br>Ethernet over USB      |                             |                             | RS-232, USB 2.0 High Speed, Ether-<br>net over USB   |                             |                             | RS-232, Ethernet TCP/IP,<br>EtherNet/IP  |                             |                             |
| <b>CONNECTOR</b>     | Micro-B USB                                   |                             |                             | High-Density 15-Pin D-Sub  |                             |                             | M12 12-Pin Power,<br>M12 8-Pin Ethernet  |                             |                             |
| <b>CABLE</b>         | N/A   |                             |                             | 0.91 m   |                             |                             | N/A  |                             |                             |
| <b>ILLUMINATION</b>  | Inner LEDs: 4 White and 4 Red                 |                             |                             | Inner LEDs: 4 White and 4 Red  |                             |                             | Inner LEDs: 4 White and 4 Red  |                             |                             |
|                      | Outer LEDs: N/A                               |                             |                             | Outer LEDs: 8 High-Output<br>White or Red (Optional)   |                             |                             | Outer LEDs: 8 High-Output<br>White or Red (Optional)   |                             |                             |
| <b>DISCRETE I/O</b>  | N/A   |                             |                             | 3 in/3 out<br>Trigger Input: 5-28V rated (0.16mA @<br>5VDC); New Master: 5 to 28V rated<br>(0.16mA @ 5VDC); Default: 3.3V rated<br>(0mA @ 3.3V)<br>Outputs (1, 2, 3): 5V TTL-compa tible,<br>can sink 10mA and source 10mA |                             |                             | 3 in/3 out, Optoisolated<br>Trigger Input: New Master:<br>Bi-directional, opto-isolated, 4.5-28V<br>rated (10mA @ 28VDC)<br>Outputs (1, 2, 3): Bi-directional, opto-<br>isolated, 1-28V rated (ICE < 100mA at<br>24VDC, current limited by user) |                             |                             |
| <b>ELECTRICAL</b>    | 5 VDC $\pm$ 5 %,<br>350 mA at 5 VDC (typ.)    |                             |                             | 5 VDC $\pm$ 5 %,<br>600 mA at 5 VDC (typ.)   |                             |                             | 4.75-30 VDC, 200 mV p-p max<br>ripple, 150 mA at 24 VDC (typ.)   |                             |                             |
| <b>DIMENSIONS</b>    | 24 mm x 34 mm x 39 mm                         |                             |                             | 25 mm x 45 mm x 38 mm  |                             |                             | 25 mm x 45 mm x 45 mm  |                             |                             |
| <b>WEIGHT</b>        | 26 g  |                             |                             | 46 g (Excluding Cable)   |                             |                             | 68 g   |                             |                             |
| <b>ENCLOSURE</b>     | IP40, Plastic                                 |                             |                             | IP54, Aluminum   |                             |                             | IP65/67, Aluminum  |                             |                             |
| <b>INDICATORS</b>    | Target Pattern,<br>Good Read Green Flash      |                             |                             | Target Pattern,<br>Good Read Green Flash,<br>Performance LEDs  |                             |                             | Target Pattern,<br>Good Read Green Flash,<br>Performance LEDs  |                             |                             |

## SYMBOLOGIES

**2D Symbologies:** Data Matrix (ECC 0-200), QR Code, Micro QR Code, Aztec Code **Stacked Symbologies:** PDF417, Micro PDF417, GS1 Databar (Composite & Stacked) **Linear Barcodes:** Code 39, Code 128, BC 412, I2 of 5, UPC/EAN, Codabar, Code 93, Pharmacode, PLANET, PostNet, Japanese Post, Australian Post, Royal Mail, Intelligent Mail, KIX

**LIGHT SOURCE Type:** High-output LEDs **Output Wavelength:** Inner Red: 625 nm nominal; Outer Red: 617 nm nominal **Operating Life:** 50,000 hours @ 25° C

**ENVIRONMENTAL Operating Temp.:** 0° to 40° C (32° to 104° F) **Storage Temp.:** -50° to 75° C (-58° to 167° F) **Humidity:** 5% to 95% (non-condensing)

**EMISSIONS:** EN 55022:2010 Class A Limits **SAFETY & QUALITY:** FCC, CE, RoHS Compliant **QMS Certification:** [www.microscan.com/quality](http://www.microscan.com/quality)

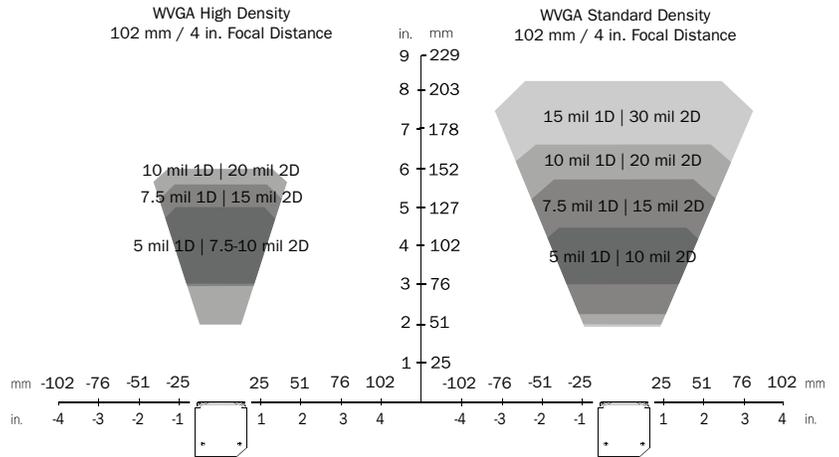
Note: Specifications are subject to change. For complete technical information, please see the User Manual available at [www.microscan.com](http://www.microscan.com).

# MicroHAWK Product Specifications

## WVGA Sensor: Field of View

| Focal Distance |     | WVGA HD          |               |     | WVGA SD          |               |     |
|----------------|-----|------------------|---------------|-----|------------------|---------------|-----|
|                |     | Min. 2D* Element | Field of View |     | Min. 2D* Element | Field of View |     |
| in.            | mm  | mil size         | in.           | mm  | mil size         | in.           | mm  |
| 2.0            | 51  | 5                | 1.4           | 35  | 7.5              | 2.0           | 50  |
| 2.5            | 64  | 5                | 1.5           | 38  | 7.5              | 2.2           | 55  |
| 3.2            | 81  | 7.5              | 1.9           | 49  | 10               | 2.8           | 70  |
| 4.0            | 102 | 10               | 2.6           | 65  | 15               | 3.7           | 94  |
| 5.2            | 133 | 10               | 3.1           | 80  | 15               | 4.5           | 115 |
| 7.5            | 190 | 15               | 4.5           | 114 | 20               | 6.5           | 165 |
| 11.8           | 300 | 30               | 7.1           | 180 | 30               | 10.2          | 260 |

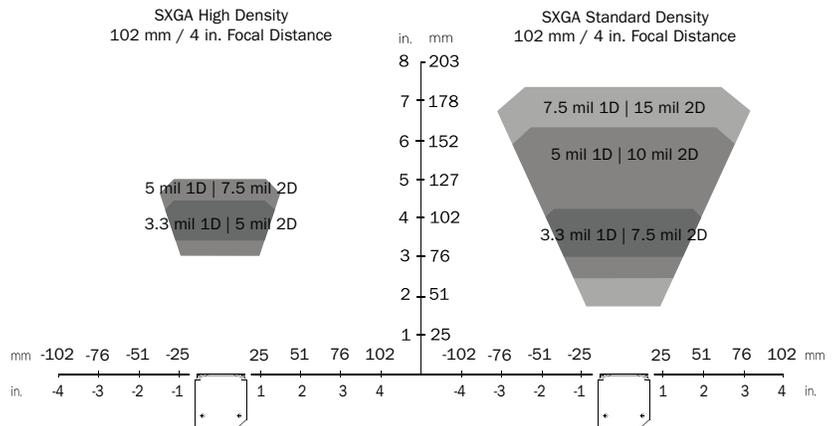
## WVGA Sensor: Read Range Example



## SXGA Sensor: Field of View

| Focal Distance |     | SXGA HD          |               |     | SXGA SD          |               |     |
|----------------|-----|------------------|---------------|-----|------------------|---------------|-----|
|                |     | Min. 2D* Element | Field of View |     | Min. 2D* Element | Field of View |     |
| in.            | mm  | mil size         | in.           | mm  | mil size         | in.           | mm  |
| 2.0            | 51  | 3.3              | 1.5           | 37  | 5                | 2.1           | 53  |
| 2.5            | 64  | 3.3              | 1.6           | 41  | 5                | 2.3           | 59  |
| 3.2            | 81  | 5                | 2.0           | 52  | 7.5              | 2.9           | 75  |
| 4.0            | 102 | 5                | 2.7           | 69  | 7.5              | 3.9           | 100 |
| 5.2            | 133 | 7.5              | 3.4           | 85  | 10               | 4.8           | 123 |
| 7.5            | 190 | 10               | 4.8           | 122 | 15               | 6.9           | 175 |
| 11.8           | 300 | 15               | 7.6           | 192 | 20               | 10.9          | 277 |

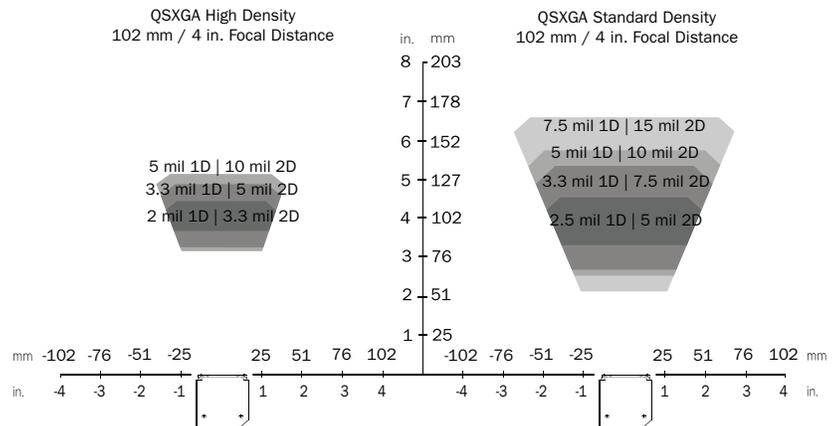
## SXGA Sensor: Read Range Example



## QSXGA Sensor: Field of View

| Focal Distance |     | QSXGA 5MP HD     |               |     | QSXGA 5MP SD     |               |     |
|----------------|-----|------------------|---------------|-----|------------------|---------------|-----|
|                |     | Min. 2D* Element | Field of View |     | Min. 2D* Element | Field of View |     |
| in.            | mm  | mil size         | in.           | mm  | mil size         | in.           | mm  |
| 2.0            | 51  | 3.3              | 1.4           | 35  | 3.3              | 2.0           | 51  |
| 2.5            | 64  | 3.3              | 1.5           | 39  | 3.3              | 2.2           | 57  |
| 3.2            | 81  | 3.3              | 2.0           | 50  | 5                | 2.8           | 72  |
| 4.0            | 102 | 3.3              | 2.6           | 66  | 5                | 3.8           | 96  |
| 5.2            | 133 | 5                | 3.2           | 81  | 7.5              | 4.6           | 117 |
| 7.5            | 190 | 7.5              | 4.6           | 116 | 10               | 6.6           | 168 |
| 11.8           | 300 | 10               | 7.2           | 184 | 15               | 10.4          | 265 |

## QSXGA Sensor: Read Range Example



\*Notes: Minimum 1D element is typically 1/2 size of minimum 2D element, (example: 10 mil 2D = 5 mil 1D).

Specifications are subject to change. For complete technical information, please see the User Manual available at [www.microscan.com](http://www.microscan.com).

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