

QX HAWK

World's most powerful compact industrial imager



Read any mark

at any speed

at any distance

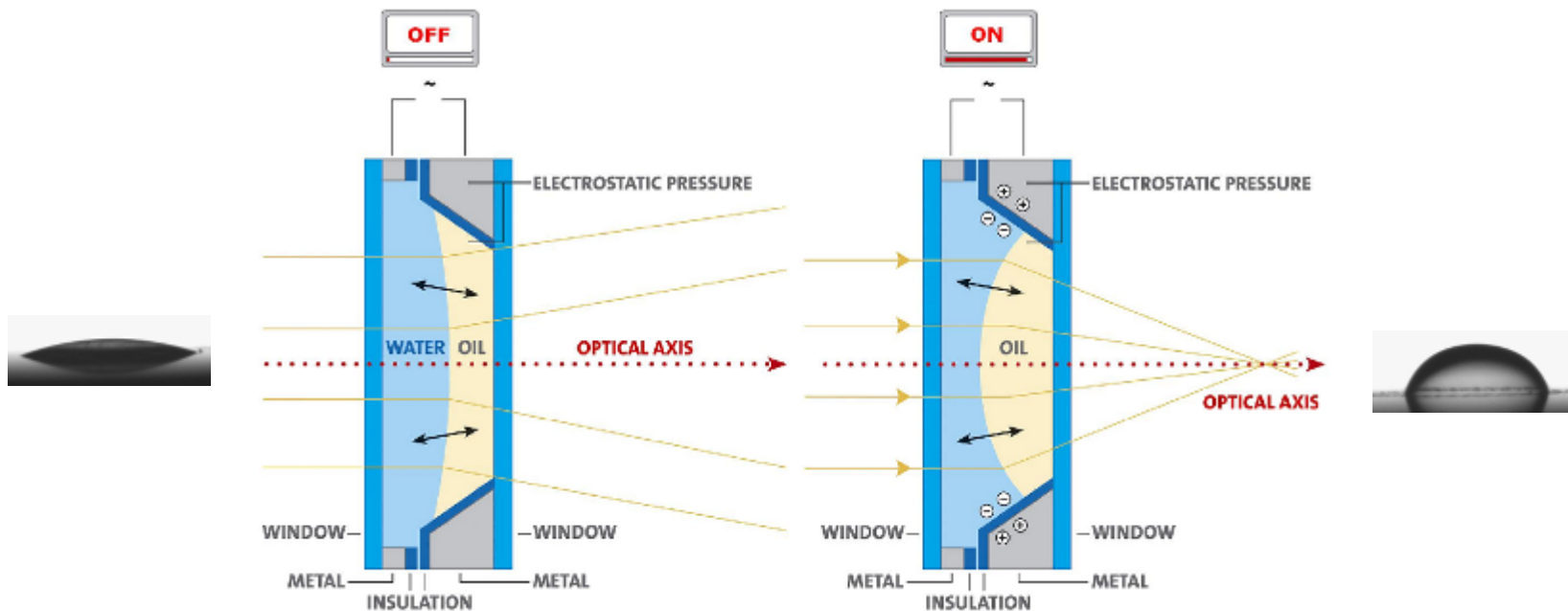
in any environment



Bright Lasers for
targeting the code

Integrated Liquid Lens

- Compound lens, front lens is fixed, rear is liquid
- The liquid lens is electronically adjusted (see below)
- 1" to 5000" working range
- A variable charge is applied to change the shape and focal length



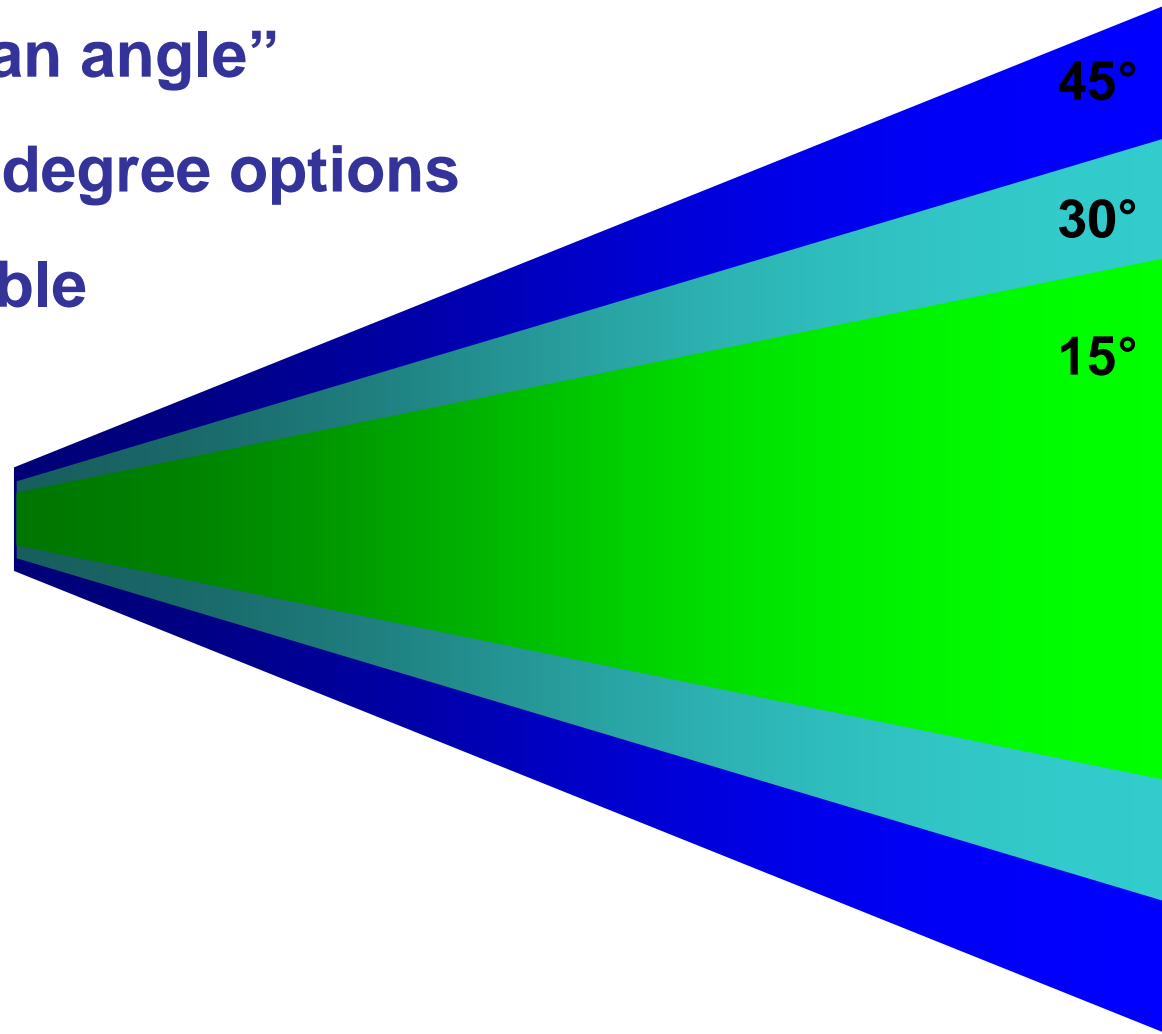
QX Hawk Imager

MICROSCAN.

Precision Data Acquisition
and Control Solutions

Front Fixed Lens

- Determines “fan angle”
- 15, 30, and 45 degree options
- Field replaceable



QX Hawk Imager

HAWK Product Portfolio



QX Hawk Fixed Mount Imager



Mobile Hawk Handheld Imager



MINI Hawk Ultra-Compact Imager

- **Next generation of direct part mark (DPM) readers**
 - “X-Mode” - multi-read image stitching
 - Integrated lighting
 - EZ button set up – includes AUTO FOCUS
 - Real-time feedback beeps / lighting flashes / vibration

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Connectivity and Ease of Use

- M12 QD connections
- Serial: RS-232/422/485
- Ethernet connection
- Optoisolated I/O
Trigger + 3 Outputs
- Visible Indicators and
EZ Button setup



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Appendix A — General Specifications

Mechanical

Height: 1.59" (40.5 mm)

Width: 2.27" (57.6 mm)

Depth: 3.79" (96.3 mm)

Weight: 10 oz. (280 g)

Environmental

Enclosure: Die-cast aluminum, IP65/67 rated

Operating Temperature: 0° to 50° C (32° to 122° F)

Storage Temperature: -40° to 70° C (-40° to 158° F)

Humidity: up to 90% (non-condensing)

Communication Interface

Standard Interfaces: RS-232, RS-422, RS-485, Ethernet

CE Mark

General Immunity for Light Industry: EN 55024:1998 ITE Immunity Standard

Radiated and Conducted Emissions of ITE Equipment: EN 55022:98 ITE Disturbances

Light Source

Type: High-output LEDs



Light Collection Options

Progressive scan, square pixel.

Shutter: Software-adjustable 1/60 to 1/40,000

WVGA: 752 x 480 pixels

Symbologies

2D Symbologies: Data Matrix (ECC 0-200), QR Code, Micro QR Code

Stacked Symbologies: PDF417, MicroPDF417, GS1 DataBar (Composite and Stacked)

Linear Symbologies: Code 39, Code 128, BC412, Interleaved 2 of 5, UCP/EAN, Codabar, Code 93

Read Parameters

Pitch: ±30°

Skew: ±30°

Tilt: ±360°

Decode Rate: Up to 60 decodes per second

Focal Range: 1" (33 mm) to ∞ (liquid lens autofocus) **Note:** Ranges correspond to specific symbol element sizes, and range increases as element size increases.

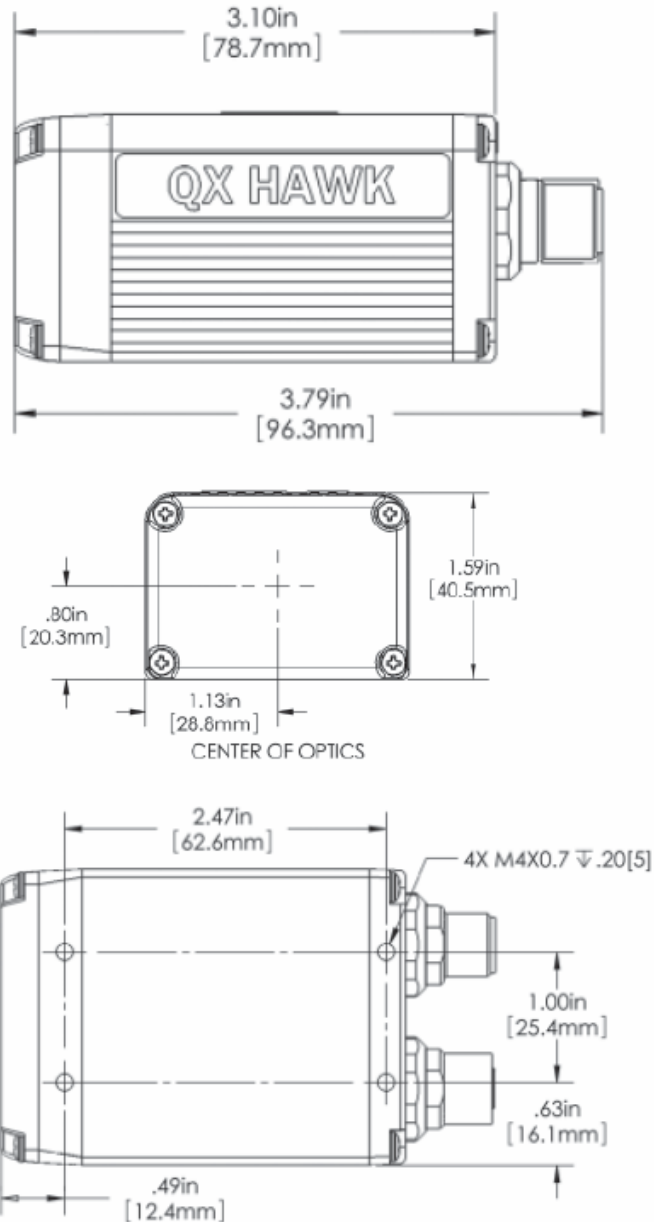
Indicators

LEDs: Read Performance, Power, Read Status

Green Flash: Good Read

Red X: Symbol Locator

Beeper: Good Read, Match/Mismatch, No Read, Serial Command Confirmation, On/Off



QX Hawk Dimensions

Electrical

Power Requirement: 5-28VDC

Discrete I/O

Input 1 (Trigger/New Master): Optoisolated, 4.5–28V rated (13 mA at 24VDC); New Master is (–) to signal ground

Outputs (1, 2, 3): Optoisolated, 1–28V rated ($I_{CE} < 100$ mA at 24VDC, current limited by user)

Safety Certifications

CDRH, FCC, CE, CB, BDMI (compliant)



RoHS/REEE Compliant

ISO Certification

ISO 9001 Certified
Issued by TÜV USA

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Product specifications are given for typical performance at 25°C (77°F) using grade A labels. Performance characteristics may vary at high temperatures or other environmental extremes. Warranty—One year limited warranty on parts and labor. Extended warranty available.