MINI HAWK XI



MINI HAWK Xi: At a Glance

- · Decode speed and read range: Varies by model
- X-Mode Decoding Technology
- Autofocus
- · Integrated Ethernet Connectivity
- 10 to 30 VDC

SXGA: High resolution imager WVGA: High speed imager



ESP[®] Easy Setup Program: Single-point software provides quick and easy setup and configuration of all Microscan readers.



EZ Button: This performs reader setup and configuration with no computer required.



Visible Indicators: Include "good read" green flash, LEDs and symbol positioning tool.

For more information on this product, visit www.microscan.com.

MINI HAWK Xi: Available Codes

OR

Data Matrix



Stacked

All Standard Postal Codes II..I..I.III.....III



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Micro QR Aztec



The MINI HAWK Xi industrial imager packs high performance decoding into a compact package for for easy setup and reliable reading in almost any automation environment. Aggressive X-Mode technology reads any barcode, 2D symbol, or direct part mark (DPM) with no configuration or setup required.

High performance, easy setup, and embedded Ethernet make the MINI HAWK Xi an ideal compact imager for any industrial application.

Decode Any Symbol

The MINI HAWK Xi consistently reads damaged, distorted or otherwise challenging direct part marks with our patented decode algorithms.

X-Mode Technology

In addition to the most aggressive decoding available, X-Mode technology provides easy setup and deployment of the MINI HAWK Xi in any application.

Autofocus

For real time dynamic autofocus, position the symbol at the center of the field of view, and push the EZ button. The MINI HAWK Xi automatically adjusts focal distance and sets internal parameters to optimize the symbol.

Embedded Ethernet

Integrated Ethernet TCP/ IP is included for industrial connectivity and high speed communication.

Compact and Lightweight Miniature form factor fits easily in tight spaces, and is lightweight for mounting into robotic applications.

Application Examples

Assembly line manufacturing Component tracking Automotive

- · Dot peen mark on powertrain components
- · Laser marks on automotive electronics components Medical devices
- · Laser marks on components

Flectronics

- · Laser markings on printed circuits boards, flex circuits Semiconductors
- · Laser marks on packages and components

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MINI HAWK XI Specifications and Options

Front

READ RANGES (GRAPHS AND TABLES)



MECHANICAL

Height: 1" (25.4 mm) Width: 1.80" (45.7 mm) Depth: 2.10" (53.3 mm) Weight: 3.2 oz. (91 g)

ENVIRONMENTAL

Enclosure: IP54 (category 2) Humidity: up to 90% (non-condensing) Operating Temperature: 0° to 40°C (32° to 104°F) Storage Temperature: -50° to 75° C (-58° to 167°F)

CE MARK

EN 55024: 1998 ITE Immunity Standard EN 55022:98 ITE Disturbances

LIGHT SOURCE

Type: High output LEDs LED LIGHT VIEW DIRECTLY WITH OPTICAL INSTRU CLASS 1 LED PRODUCT 470, 525, 617 nr *+A2:2001

LIGHT COLLECTION OPTIONS

Progressive scan, square pixel. Software adjustable shutter speed, electronic shutter SXGA: 1280 by 1024 pixels WVGA: 752 by 480 pixels

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

READ PARAMETERS

Pitch: ±30° Skew: ±30° Tilt: 360°

Decode Rate: Up to 60 decodes per second (HS model) Focal Range: 1.3 to 9.3" (33 to 236 mm) (autofocus)

CONNECTOR

Dual Cable: 6 ft. industrial Ethernet cable with RJ45 plug; and 3 ft. cable with M12 plug

INDICATORS

LEDS: Read Performance, Power, Read Status Green Flash: Good read Blue V: Symbol locator Beeper: Good read, match/mismatch, noread, serial command confirmation, on/off

PIN M12	ASSIGNMENTS 12-Pin Plug:	I	RJ4	5 Plug:
	12 9 10 2 3 4			
9	Host RxD		1	TX (+)
10	Host TxD		2	TX (-)
2	Power		3	RX (+)
7	Ground		4	NC
1	Trigger		5	NC
8	Input Common		6	RX (–)
3	Default		7	NC
4	New Master		8	NC
5	Output 1			
11	Output 2			
6	Output 3	7		
12	Output Common			

COMMUNICATION INTERFACE

Wide Axis (H = 16/25 W)

1D

.0033" (0.08 mm)

.0075" (0.19 mm)

.015" (0.38 mm)

.005" (0.13 mm)

.010" (0.25 mm) .020" (0.51 mm)

.0075" (0.19 mm)

Narrow-bar-width

2D

.005" (0.13 mm)

.010" (0.25 mm)

.020" (0.38 mm)

.0075" (0.19 mm)

.010" (0.25 mm)

.015" (0.38 mm)

.030" (0.76 mm)

Interface: RS-232 and Ethernet

ELECTRICAL

Power: 10-30 VDC, 200 mV p-p max. ripple, 132 mA @ 24 VDC (typ.)

DISCRETE I/O

Trigger Input, New Master: Bi-directional, optoisolated, 4.5-28V rated (10 mA at 28 VDC)

Outputs (1, 2, 3): Bi-directional, optoisolated, 1-28V rated, (Ice <100 mA at 24 VDC, current limited by user)

SAFETY CERTIFICATIONS DESIGNED FOR FCC, UL/cUL, CE, CB, Class A

Read Range

(using autofocus)

1.9 to 4.4" (47 mm to 110 mm)

1.7 to 6.7" (42 mm to 170 mm)

1.5 to 8.0" (38 mm to 203 mm)

1.6 to 4.4" (41 mm to 112 mm) 1.5 to 6.2" (38 mm to 157mm)

1.4 to 7.6" (36 mm to 193 mm)

1.3 to 10.0" (33 mm to 254 mm)

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Field of View

(maximum)

1.6" (40 mm)

2.5" (64 mm)

2.9" (74 mm)

2.8" (72 mm)

3.8" (97 mm)

4.7" (118 mm)

6.2" (158 mm)

Ultra High Density

Standard Density

WVGA units used for data provided in table. Subject to change. See User Manual for complete data.

Certified ISO 9001:2008 Quality Management System

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Read Range and other performance data is determined using high quality Grade A symbols per ISO/IEC 15415 and ISO/IEC 15416 in a 25°C environment. For application-specific Read Range results, testing should be performed with symbols used in the actual application. Microscan Applications Engineering is available to assist with evalu-ations. Results may vary depending on symbol quality. Warranty-One year limited warranty on parts and labor. Free extended 3 year warranty upon online product registration.

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