

MINI HAWK Xi



微型自动对焦 以太网成像仪

MINI HAWK Xi工业成像仪将高性能解码与小巧的外形相结合，在几乎所有自动化环境中都能实现轻松的设置和可靠的读取。出色的X-Mode技术可以读取任意条形码、二维符号或直接部件标记 (DPM)，无需额外配置或安装。

高性能、轻松设置、嵌入式以太网使得MINI HAWK Xi成为任意工业应用中理想的紧凑型成像仪。

MINI HAWK Xi: 简介

- 解码速度和读取范围：随型号而定
- X-Mode解码技术
- 自动对焦
- 集成以太网连接
- 10到30VDC

SXGA: 高分辨相机

WVGA: 高速相机



ESP® 简易设置程序：单点软件解决方案为所有 Microscan 阅读器提供迅速、简便的设置和配置。



EZ 按钮：此按钮可以无需计算机而执行阅读器的设置和配置操作。



可见指示灯：性能指示灯包括“有效读取”的绿色闪光和 LED 指示灯。

有关本产品的详细信息，请访问 www.microscan.com。

解码任意符号

MINI HAWK Xi可以使用我们拥有专利的解码算法，能稳定地读取损坏、变形或具有挑战性的直接部件标记。

X-Mode技术

除了能提供最出色的解码功能之外，X-Mode技术还可以进行轻松地设置并将MINI HAWK Xi配备在任何应用中。

自动对焦

对于实时动态自动对焦，只需将符号置于视野中心，并按EZ按钮。MINI HAWK Xi将自动调节焦距并设置内部参数，使得读码器的参数最优化。

嵌入式以太网

包括了集成的以太网TCP/IP，用于工业连接和高速通信。

外形小巧、轻便

十分小巧的外形尺寸可以轻松安装在狭小空间内，而且轻便的重量适合安装到机器人应用中。

应用示例

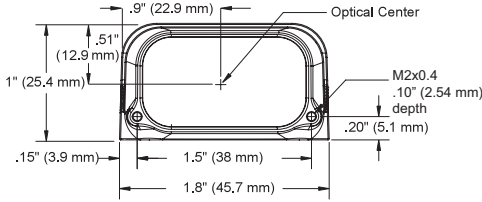
- 装配线制造
- 组件跟踪
- 汽车
 - 传动系统部件上的针式打标标记
 - 汽车电子部件上的激光标记
- 医疗设备
 - 部件上的激光标记
- 电子设备
 - 在印刷电路板、柔性电路上进行激光打标
- 半导体
 - 包装和部件上的激光标记

MINI HAWK Xi: 可读码

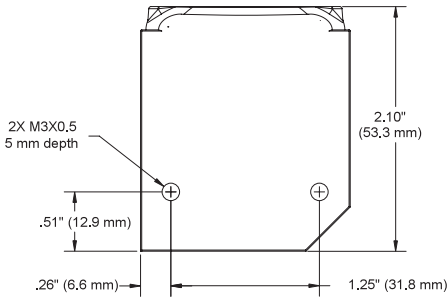
线性码	所有标准	邮政编码		
堆栈码	MicroPDF 码	PDF417 码	GS1 Databar 码	
	数据矩阵	QR 码	Micro QR 码	Aztec 码
二维标签				

MINI HAWK Xi SPECIFICATIONS AND OPTIONS

Front

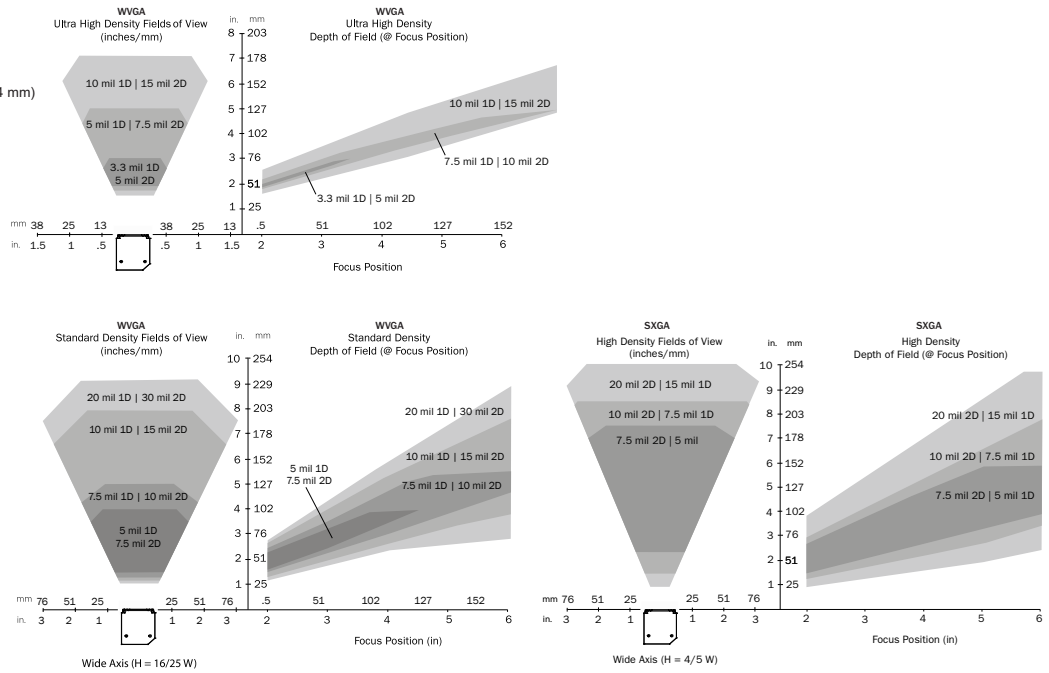


Base



Note: Nominal dimensions shown. Typical tolerances apply.

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



LIGHT COLLECTION OPTIONS

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

SYMBOLICIES

2D Symbolicities: Data Matrix (ECC 0-200), QR Code, Micro QR Code, Aztec Code
Stacked Symbolicities: 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

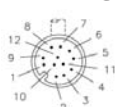
INDICATORS

LEDs: Read Performance, Power, Read Status
Green Flash: Good read **Blue V:** Symbol locator
Beeper: Good read, match/mismatch, no read, serial command confirmation, on/off

Narrow-bar-width		Field of View (maximum)	Read Range (using autofocus)
1D	2D		
Ultra High Density			
.0033" (0.08 mm)	.005" (0.13 mm)	1.6" (40 mm)	1.9 to 4.4" (47 mm to 110 mm)
.0075" (0.19 mm)	.010" (0.25 mm)	2.5" (64 mm)	1.7 to 6.7" (42 mm to 170 mm)
.015" (0.38 mm)	.020" (0.38 mm)	2.9" (74 mm)	1.5 to 8.0" (38 mm to 203 mm)
Standard Density			
.005" (0.13 mm)	.0075" (0.19 mm)	2.8" (72 mm)	1.6 to 4.4" (41 mm to 112 mm)
.0075" (0.19 mm)	.010" (0.25 mm)	3.8" (97 mm)	1.5 to 6.2" (38 mm to 157 mm)
.010" (0.25 mm)	.015" (0.38 mm)	4.7" (118 mm)	1.4 to 7.6" (36 mm to 193 mm)
.020" (0.51 mm)	.030" (0.76 mm)	6.2" (158 mm)	1.3 to 10.0" (33 mm to 254 mm)

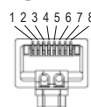
WVGA units used for data provided in table. Subject to change. See User Manual for complete data.

PIN ASSIGNMENTS M12 12-Pin Plug:



9	Host Rx D
10	Host Tx D
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

RJ45 Plug:



1	TX (+)
2	TX (-)
3	RX (+)
4	NC
5	NC
6	RX (-)
7	NC
8	NC

COMMUNICATION INTERFACE

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, (I_{ce} <100 mA at 24 VDC, current limited by user)

SAFETY CERTIFICATIONS DESIGNED FOR

FCC, UL/cUL, CE, CB, Class A

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

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 evaluations. Results may vary depending on symbol quality.

Warranty—For current warranty information on this product, please visit www.microscan.com/warranty

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