

MS-4X



MS-4X: 简介

- 解码 / 秒: 最多10
- X-Mode解码技术
- 宽视野
- 可选USB连接



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。

MS-4X: 可读码

线性码

所有标准

邮政编码

堆栈码

MicroPDF 码

PDF417 码

GS1 Databar 码

二维标签

数据矩阵

QR 码

Micro QR 码

Aztec 码

适用于读取难读的条形码的超紧凑影像扫描器

MS-4X采用了体积十分小巧的广角光学元件, 以便提供最宽的视野, 用于读取近距离的任何符号。通过X-Mode技术确保实现出色的解码, 该技术可以读取直接部件标记以及损坏或难以辨认的符号, 而无需配置或设置。

高性能、灵活性以及先进的解码功能使得MS-4X成为了理想的影像扫描器, 十分适合在狭小空间内读取难以辨认的条形码。

X-Mode技术

我们拥有专利的X-Mode技术可以在任何应用中对MS-4X进行简单的设置和使用。除了可靠的解读损坏或难以辨认的线性条形码及二维码之外, MS-4X还采用了先进的解码算法, 用以读取多种直接部件标记。

小巧轻便

MS-4X是全球最小的高性能影像扫描器。其小巧的体积能够灵活放置在狭小空间中。轻便耐用的镁合金外壳重量不足2盎司 (约56.7g)。

EZ Trax™ 选件

图像捕捉和存储软件可以跟踪符号图像。

安装灵活性

MS-4X紧凑的外形、直角镜选件和角口电缆节省了立体空间, 可以在仪器和设备中形成最紧密的贴合。

宽视野

MS-4X拥有一个极宽的视野, 可以读取最近1" (25mm) 的线性条形码或二维符号。

应用示例

临床仪器

- 嵌入式条形码读取
- 样本跟踪和小瓶读取

医疗设备

- 在产品上进行针式打标或激光打标

电子设备

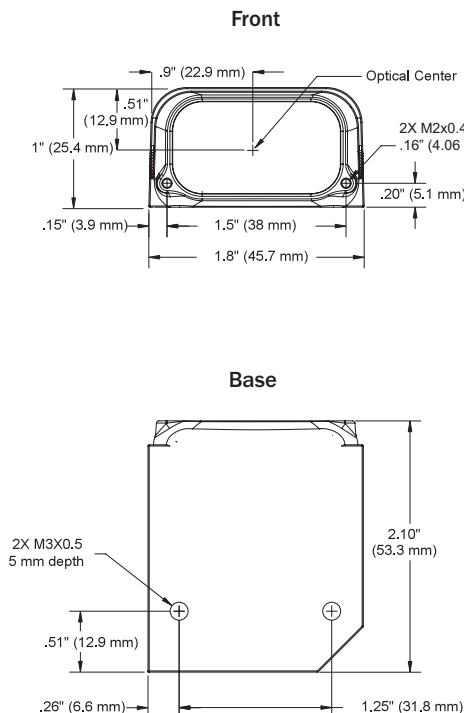
- 在印刷电路板、柔性电路上进行激光打标
- 子装配跟踪

半导体

- 包装和部件上的激光标记

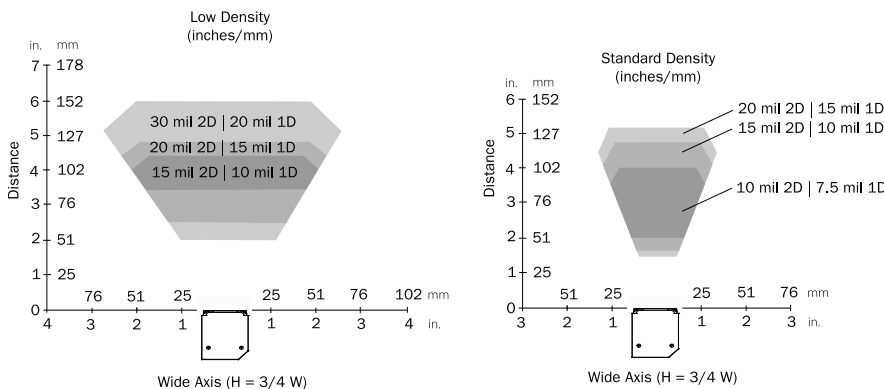
MICROSCAN®

MS-4X IMAGER SPECIFICATIONS AND OPTIONS



Note: Nominal dimensions shown. Typical tolerances apply.

READ RANGES (GRAPHS AND TABLES)



Narrow-bar-width		Field of View (width)*	Read Range
1D	2D	(maximum)	
Standard Density			
.0075" (0.19 mm)	.010" (0.25 mm)	2.4" (61 mm)	2 to 4.0" (51 mm to 102 mm)
.010" (0.25 mm)	.015" (0.38 mm)	2.6" (66 mm)	1.7 to 4.7" (43 mm to 119 mm)
.015" (0.38 mm)	.020" (0.51 mm)	2.8" (71 mm)	1.4 to 5.2" (36 mm to 132 mm)
Low Density			
.010" (0.25 mm)	.015" (0.38 mm)	4.2" (107 mm)	3.5 to 4.5" (89 mm to 114 mm)
.015" (0.38 mm)	.020" (0.51 mm)	4.5" (114 mm)	2.7 to 5.0" (69 mm to 127 mm)
.020" (0.51 mm)	.030" (0.76 mm)	5.5" (140 mm)	2.0 to 6.0" (51 mm to 152 mm)

*Height is 75% of width.
Note: Specifications subject to change. Contact Microscan for updated graphs.

MECHANICAL

Height: 1" (25.4 mm) Width: 1.80" (45.7 mm)
Depth: 2.10" (53.3 mm) Weight: 2 oz. (57 g)

ENVIRONMENTAL

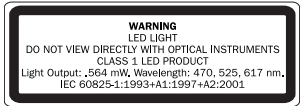
Enclosure: IP54 (category 2)
Operating Temperature: 0° to 40° C (32° to 104° F)
Storage Temperature: -50° to 75° C (-58° to 167° F)
Humidity: up to 90% (non-condensing)

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.
Software adjustable shutter speed,
electronic shutter
VGA: 640 by 480

SYMBOLGY TYPES

2D Symbolgies: Data Matrix (ECC 0-200),
QR Code, Micro QR Code, Aztec Code
Stacked Symbolgies: 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 10 decodes per second

HOST CONNECTOR/PIN ASSIGNMENTS

High Density 15 Pin D-Sub Socket Connector

Pin No.	Host RS-232	Host/Aux RS-232	Host RS-422/485	In/Out
1	Power +5 VDC			In
2	TxD	TxD	TxD(-)	Out
3	RxD	RxD	RxD(-)	In
4	Power/Signal Ground			
5	NC			
6	RTS	Aux TxD	TxD(+)	Out
7	Output 1 TTL ^a			Out
8	Default configuration ^b			In
9	Trigger			In
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 TTL ^a			Out
12	New Master (NPN)			In
13	Chassis ground ^c			
14	Output 2 TTL ^a			Out
15	NC			

a. Can sink 10 mA and source 10 mA.
b. The default is activated by connecting pin 8 to ground pin 4.
c. Chassis ground: Used to connect chassis body to earth ground only. Not to be used as power or signal return.

CONNECTOR

Type: 3 ft. cable terminated with High Density
15-pin D-Sub socket or USB type A connector

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

COMMUNICATION PROTOCOLS

Standard Interface: RS-232, RS-422 or USB

SAFETY CERTIFICATIONS DESIGNED FOR

FCC, UL/cUL, CE, CB

ELECTRICAL

Power: 5 VDC +/- 5 %, 200 mV p-p max. ripple,
394 mA @ 5 VDC (typ.)

DISCRETE I/O

Trigger Input: 5 to 28V rated (0.16 mA)
New Master: 5 to 28V rated (0.16 mA)
Outputs (1, 2, 3): 5V TTL compatible, can sink 10 mA
and source 10 mA

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 Applica-
tions 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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