

VISION MINI Xi 智能相机



最小的以太网视觉系统

Vision MINI Xi 是一款外形超紧凑的智能相机，包含工业连接性能和全套视觉工具，用于近距离机器视觉检测任务。生产工程师可以在狭窄的空间内简单的部署和实现强大的检测、颜色匹配、条码读取、OCR及更多检测任务。

Vision MINI Xi 包含内置以太网和串口结构，24V接口和光隔离I/O, 是各种工业应用的理想选择。

Vision MINI Xi: 简介

- 造型和尺寸极为紧凑
- 带有处理器、镜头、光源和AutoVISION软件便于集成到嵌入式应用
- 单色或彩色传感器可供选择
- 集成以太网连接
- 10到30VDC



AutoVISION 软件 (WVGA/SXGA只): 提供简易设置和运行时间界面, 可解决基本和中级视觉应用需求。



Visionscape 软件 (QXGA; WVGA/SXGA可选): 可使用脚本和其他高级编程功能。



Microscan Link: 在外部设备上 (如PLC, PC或HMI) 监测和管理工具值。



CloudLink: 在网页浏览器上自定义网络HMI界面显示连接工具值。

有关本产品的详细信息, 请访问 www.microscan.com.

造型紧凑, 重量极轻

Vision MINI Xi 是世界上最小的完全集成化的智能相机。凭借其紧凑外观可在狭小空间内活动自如。经久耐用的镁合金外壳, 重量不足2盎司。

自动对焦

可通过AutoVISION按钮实现一键式瞄准和对焦功能, 并可设置内部参数优化图片获取。

功能强大

它作为一款强大的工具套件可凭借视觉技术解决各类自动化难题。AutoVISION软件带有直观界面、详细指导和模板库, 可轻松进行设置和应用。

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。

升级系统

AutoVISION软件可升级为完整的Visionscape软件, 不费吹灰之力即可进行更为复杂的视觉应用。

应用实例

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

Vision MINI Xi: 功能

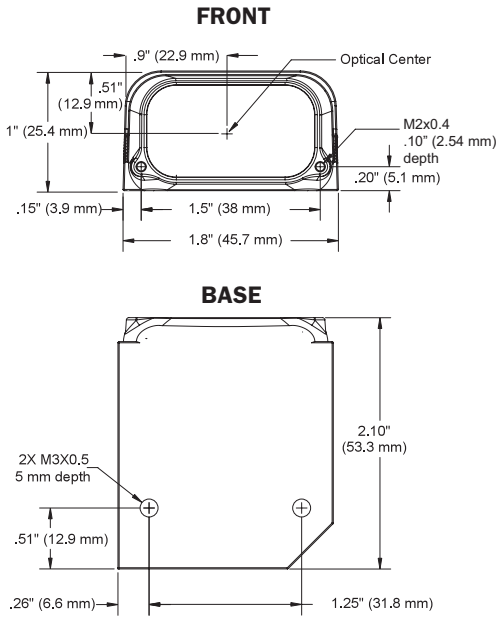


- 读取一维和二维码
- 光学字符识别 (OCR)
- 符号质量验证工具
- 动态零件定位
- 装配验证
- 尺寸测量

另加 Visionscape 选项:

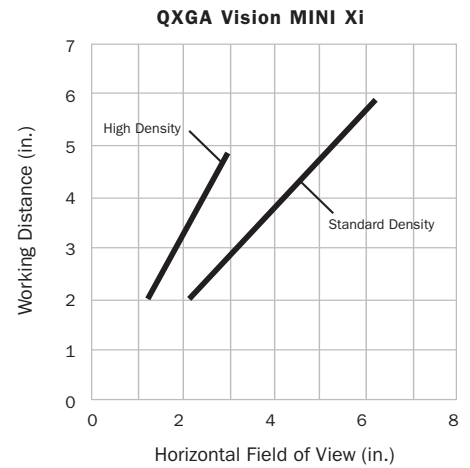
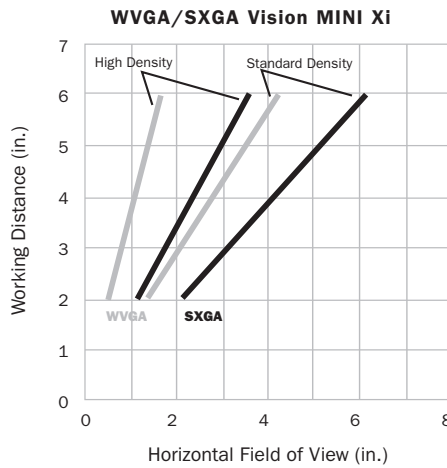
- 图片转化和缩放
- 精准校验
- 自定义视觉工具 (脚本)
- 程序控制功能
- 50+ 机器视觉工具

VISION MINI XI SMART CAMERA SPECIFICATIONS AND OPTIONS



Note: Nominal dimensions shown. Typical tolerances apply.

FIELD OF VIEW AND WORKING DISTANCE



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

General Immunity for Light Industry: EN 55024 ITE Immunity Standard
Radiated and Conducted Emissions of ITE Equipment: EN 55022 ITE Disturbances

LIGHT SOURCE

Type: High output LEDs



SYMBOLGY TYPES

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

INDICATORS

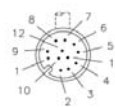
LEDS: Trigger, Pass, Fail, Mode, Power, Link/Act
Green Flash: Pass
Blue V: Target locator

SENSOR OPTIONS

Progressive scan, square pixel.
Shutter: Software adjustable 10 μs to 16.7 ms
Shutter Type: Global (WVGA), Rolling (SXGA, QXGA)
Sensor: 1/2 inch
WVGA: CMOS 752 x 480 pixels, up to 60 fps
SXGA: CMOS 1280 x 1024 pixels, up to 15 fps
QXGA (Color): CMOS 2048 x 1536 pixels, up to 5 fps

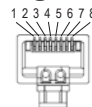
PIN ASSIGNMENTS

M12 12-Pin Plug:



9	Host Rx/D
10	Host Tx/D
2	Power
7	Ground
1	Trigger
8	Input Common
3	Default
4	Learn
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

SOFTWARE OPTIONS

WVGA, SXGA: AutoVISION included, Visionscape and Verification/OCV upgrades available
QXGA (Color): Visionscape included

IMAGING PARAMETERS

Focal Range: 2 to 6" (50.8 to 152.4 mm) (autofocus)

IMAGING RATES

WVGA: up to 60 full frame images/second
SXGA: up to 15 full frame images/second
QXGA: up to 5 full frame images/second

CONNECTOR

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

ELECTRICAL POWER

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

COMMUNICATION PROTOCOLS

Standard Interface: RS-232 and Ethernet

DISCRETE I/O

Trigger Input, Learn: 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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 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 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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