自动识别二维手持扫描仪

HS-41X

手持式DPM成像仪

HS-41X是一款紧凑型手持式成像仪，可以读取基质上低对比度的二维码，如金属板、铸件、塑料和电子元件。其双光学视场经过优化，可以读取线性条形码和二维码，包括具有挑战性的标记，如由气动式式打标和激光/化学蚀刻等直接部件标记（DPM）方法创建的标记。

HS-41X是一种理想的编写读取解决方案，适用于任何工业条形码或二维应用，即使是难于辨认的低对比度的码。

HS-41X: 简介

- 读取大多数一维和二维符号，包括DPM
- 双光学视场适用于宽范围的高密度条形码
- X-Mode技术用于读取DPM
- USB 2.0或RS-232通信选件
- 功耗低

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。

可见指标：“正常读取”绿色LED性能指示灯。

有关本产品的详细信息，请访问 *www.microscan.com.*

HS-41X: 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

X模式解码算法
行业领先的X-mode解码算法和新颖的亮场照明可以让HS-41X成像仪始终如一地以较高的读取速度读取被损坏、变形或具有挑战性的直接标记码。

双光学视场
采用双光学视场，可以可靠地读取较大的一维条形码和高密度二维码。

性能指示器
除了蜂鸣器之外，视觉和振动指标也可以在嘈杂和敏感环境中对成功读取进行静默确认。

人体工程学设计
小巧的外壳经过人体工程学设计，用户在重复和高负荷应用中也能感到舒适。

持久耐用的外壳
HS-41X成像仪采用紧凑耐用的设计，包括包覆成型的IP54外壳，能够承受多次从6英尺（1.8米）高的位置跌落到水泥地面上。

应用示例
电子设备
- PCB组装
- 半导体包装和部件上的激光标记

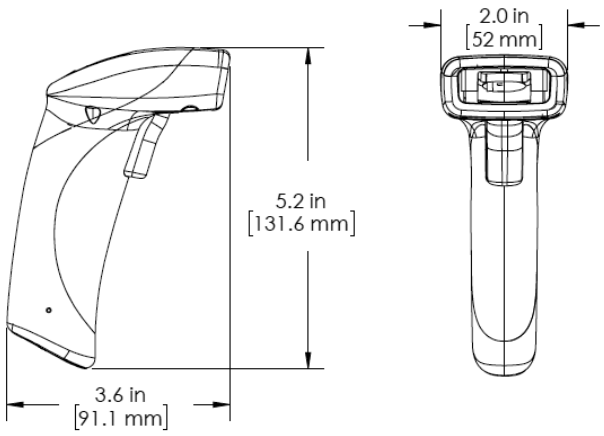
汽车
- 直接标记的铸件和钣金零件
- 工具跟踪 / 可追溯性

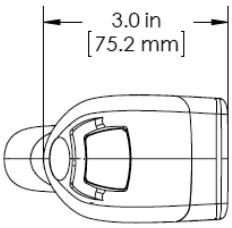
航空航天
- 燃气轮机叶片、发动机零件上的针式标记

医疗设备
- 直接标记的医疗植入物和手术器具

MICROSCAN®

HS–41X Handheld DPM Imager Specifications and Options





Note: Inches [milimeters]. Nominal dimensions shown. Typical tolerances apply.

READ RANGE TABLE

Narrow-Bar	Read Range
STANDARD DENSITY	
1D	
.0050" (.127 mm)	3.7 to 5.0" (94 to 127 mm)
.0075" (.191 mm)	2.2 to 6.5" (56 to 165 mm)
.010" (.254 mm)	1.5 to 8.0" (38 to 203 mm)
.020" (.508 mm)	2.3 to 15.5" (58 to 394 mm)
2D	
.0050" (.127 mm)	3.7 to 4.6" (94 to 117 mm)
.0075" (.191 mm)	1.5 to 6.0" (38 to 152 mm)
.010" (.254 mm)	1.6 to 7.7" (41 to 196 mm)
.020" (.508 mm)	1.6 to 9.4" (41 to 239 mm)

Note: Specifications are subject to change. Working ranges are a combination of both the wide and high density fields.

MECHANICAL
Height: 5.2" (131.6 mm)
Width: 2.0" (52 mm)
Depth: 3.6" (91.1 mm)
Weight: 3.9 oz. (110 g)

ENVIRONMENTAL
Operating Temperature: -20° to 55° C (-4° to 131° F)
Storage Temperature: -30° to 65° C (-22° to 150° F)
Humidity: 5% to 95% (non-condensing)
Shock: Withstands multiple drops of 6' (1.8 meters)

CE STANDARDS
Immunity: EN 55024
ESD: EN 61000-4-2
Radiated RF: EN61000-4-3
Keyed Carrier: ENV50204
EFT: EN61000-4-4
Conducted RF: EN61000-4-6
Emissions: EN55022, Class B Radiated, Class B Conducted
CB Test Certificate: IEC 60950-1:2001, First Edition

LIGHT COLLECTION OPTIONS
Sensor: CMOS 1.2 megapixel grayscale
Sensor Array: 1280 by 960
Field Selection: High density or wide
Field of View: High density field: 30° horizontal by 20° vertical; wide field: 50° horizontal by 33.5° vertical
Focal Point: Approximately 100 mm
Optical Resolution: High density field: 960 x 640; wide field: 960 x 640

SYMBOLOGIES
2D Symbologies: Data Matrix, QR Code, Micro QR Code, Aztec Code
Stacked Symbologies: PDF417, MicroPDF417, Composite
Linear Symbologies: UPC, Code 39, Code 128, Interleaved 2 of 5, Codabar, GS1 DataBar, Code 93
Postal Symbologies: USPS OneCode (4CB), POSTNET, PLANET, Japanese Post, Australian Post, Royal Mail, KIX Code

COMMUNICATION PROTOCOLS
Standard Interface: RS-232, USB 2.0 (generic HID, HID keyboard, virtual COM port)

READ PARAMETERS
Pitch: ±60° (front to back)
Skew: ±60° (from plane parallel to symbol (side-to-side)
Rotational Tolerance: ±180°
Print Contrast Resolution: 25% (1D symbologies); 35% (2D symbologies) absolute dark/light reflectance differential, measured at 650 nm
Ambient Light Immunity: Sunlight: Up to 9,000 ft.-candles/96,890 lux
Target Beam: Dual, blue targeting bar

INDICATORS
Status Indicators: Beep, vibrate, LED flash

IMAGE OUTPUT OPTIONS
Format: BMP or JPEG

MEMORY CAPACITY
128MB Flash ROM, 32MB RAM

DATA EDITING
JavaScript (Additional License Required)

ELECTRICAL
Power Requirements: Reader @ 5VDC (mA): Typical: Less than 450 mA; Idle: Less than 80 mA; Sleep: Less than 31 mA

SAFETY CERTIFICATIONS DESIGNED FOR
FCC, CE

ROHS/WEEE COMPLIANT

ISO CERTIFICATION
Certified ISO 9001:2008 Quality Management System

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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