自动识别二维扫描仪与校验器

HawkEye® 1500 系列

固定式
直接部件标记扫描仪

HawkEye 1500 系列高性能固定式直接部件标记（direct part mark，DPM）扫描仪包括易于使用的智能照相格式。HawkEye 1500 系列具备简单的界面、先进的编程控制和可选的内置符号质量校验，完全是一款高度灵活且功能强劲的扫描仪。不论是读取印刷标签还是难以辨认的低对比度 DPM，HawkEye 1500 系列都能提供符合成本效益的可靠读取结果。

HawkEye 1500 系列：概要

- 每秒解码次数 ：最高达 30 次
- 扫描范围 ：根据型号变化
- QuicSet 专利技术
- 集成式以太网络

HawkEye 1510: 高度灵活的扫描仪，含多个 C-Mount 接口透镜和照明选项

HawkEye 1515: 多用途扫描仪，可用来读取多类直接部件标记

HawkEye 1525: 专门用来读取 DPM，含暗视野照明，一般用来读取反光比较强的部件标记

有关本产品的详情，请浏览网站 ：*www.microscan.com*。

优化解码

HawkEye 1500 系列采用业内领先的解码方案，能持续高速解读被损坏、变形或其它难以辨认的直接标记编码。

内置连接

可使用内置以太网络和串行端口设置、控制和传输数据。其中还包括 8 个分立数码输入 / 输出点。

ReadRunner 软件

ReadRunner 监控及设置软件可优化解读性能，并可远程监控扫描仪。

QuicSet 技术

QuicSet 视听匹配专利可与独一无二的自动学习功能结合，用户可以轻松匹配并培训该元件的使用。

DPM 校验

使用内置检验可实时监控质量，确保读取速率始终保持较高的水平。使用可选许可证，可启用高级一维和二维校验功能，包括 AIM DPM-1-2006 标准和用户自定义校验。

应用举例

汽车
- 传动组件上的点刻标记
- 汽车电子组件上的激光蚀刻标记

航空
- 燃气轮机叶片和引擎组件上的点刻标记

医疗设备
- 医疗设备组件上的激光蚀刻标记

电子产品
- 印刷电路板和柔性电路板上的激光蚀刻标记

半导体
- 包装和组件上的激光蚀刻标记

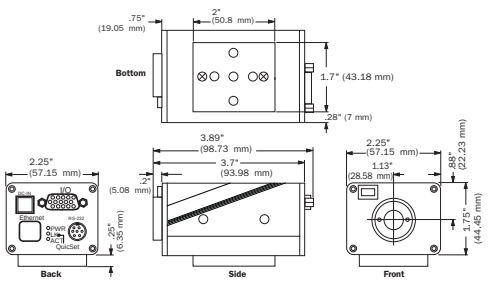
HawkEye 1500 系列：可用码

线形码	所有标准线形码	邮政编码	
堆栈式	MicroPDF	PDF417	GS1 Databar
二维	数据矩阵	QR	

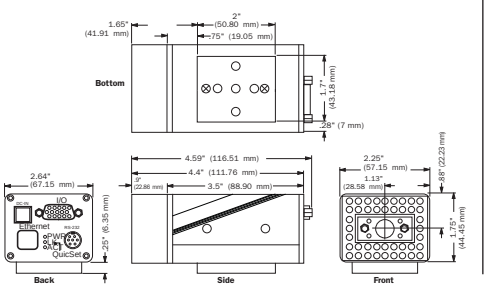
MICROSCAN®

HawkEye® 1500 Series Specifications and Options

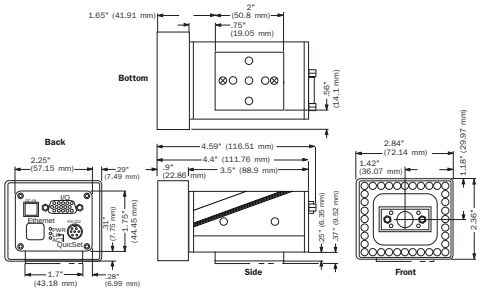
HAWKEYE 1510 MECHANICAL



HAWKEYE 1515 MECHANICAL



HAWKEYE 1525 MECHANICAL



HawkEye 1510	HawkEye 1515	HawkEye 1525
Field of View (H x V) Depends on lens selection	**Field of View (H x V)** HawkEye 1515MD: 1.3" x 1.0" at 4.0" (3.30 cm x 2.54 cm at 10.16 cm) 1.55" x 1.19" at 5.0" (3.94 cm x 3.02 cm at 12.70 cm) 1.80" x 1.36" at 6.0" (4.57 cm x 3.45 cm at 15.24 cm) HawkEye 1515HD: 0.87" x 0.67"at 2.5" (2.21 cm x 1.70 cm at 6.35 cm) 1.0" x 0.75" at 3.0" (2.54 cm x 1.90 cm at 7.62 cm) 1.11" x 0.85" at 3.5" (2.82 cm x 2.16 cm at 8.89 cm) HawkEye 1515SHD: 0.50" x 0.38" at 3.0" (1.27 cm x 0.97 cm at 7.62 cm) 0.55" x 0.42" at 3.5" (1.40 cm x 1.14 cm at 8.89 cm) 0.60" x 0.46" at 4.0" (1.55 cm x 1.07 cm at 10.16 cm) HawkEye 1515UHD: 0.24" x 0.18" at 2.13" (0.61 cm x 0.46 cm at 5.41 cm) 0.25" x 0.19" at 2.25" (0.64 cm x 0.48 cm at 5.71 cm) 0.26" x 0.20" at 2.38" (0.66 cm x 0.51 cm at 6.05 cm) HawkEye 1515LHD: 1.0" x 0.75" at 5.0"± 0.5" (2.54 cm x 1.90 cm at 12.7 cm ± 1.27 cm)	**Field of View (H x V)** HawkEye 1525HD: 0.87" x 0.67" at 2.5" (2.21 cm x 1.70 cm at 6.35 cm) 1.0" x 0.75" at 3.0" (2.54 cm x 1.90 cm at 7.62 cm) 1.11" x 0.85" at 3.5" (2.82 cm x 2.16 cm at 8.89 cm) HawkEye 1525SHD: 0.50" x 0.38" at 3.0" (1.27 cm x 0.97 cm at 7.62 cm) 0.55" x 0.42" at 3.5" (1.40 cm x 1.14 cm at 8.89 cm) 0.60" x 0.46" at 4.0" (1.55 cm x 1.07 cm at 10.16 cm) HawkEye 1525UHD: 0.24" x 0.18" at 2.13" (0.61 cm x 0.46 cm at 5.41 cm) 0.25" x 0.19" at 2.25" (0.64 cm x 0.48 cm at 5.71 cm) 0.26" x 0.20" at 2.38" (0.66 cm x 0.51 cm at 6.05 cm)
Operating Distance [1] Depends on lens selection	**Operating Distance** [1] HawkEye 1515MD: 4.0" to 6.0" (10.16 cm to 15.24 cm) HawkEye 1515HD: 2.5" to 3.5" (6.35 cm to 8.89 cm) HawkEye 1515SHD: 3.0" to 4.0" (7.62 cm to 10.16 cm) HawkEye 1515UHD: 2.125" to 2.375" (5.50 cm to 6.03 cm)	**Operating Distance** [1] HawkEye 1525HD: 2.5" to 3.5" (6.35 cm to 8.89 cm) HawkEye 1525SHD: 3.0" to 4.0" (7.62 cm to 10.16 cm) HawkEye 1525UHD: 2.125" to 2.375" (5.50 cm to 6.03 cm)
Minimum Element Size Depends on lens selection [1]Working distance measured from last physical element to part.	**Minimum Element Size** HawkEye 1515MD: 1D: 0.005" (0.12 mm), 2D: 0.010" (0.25 mm) HawkEye 1515HD: 1D: 0.003" (0.07 mm), 2D: 0.006" (0.15 mm) HawkEye 1515SHD: 1D: 0.0015" (0.04 mm), 2D: 0.003" (0.07 mm) HawkEye 1515UHD: 1D: 0.0007" (0.02 mm), 2D: 0.0013" (0.03 mm)	**Minimum Element Size** HawkEye 1525HD: 1D: 0.003" (0.07 mm), 2D: 0.006" (0.15 mm) HawkEye 1525SHD: 1D: 0.0015" (0.04 mm), 2D: 0.003" (0.07 mm) HawkEye 1525UHD: 1D: 0.0007" (0.02 mm), 2D: 0.0013" (0.03 mm)

MECHANICAL–HE1510
Height: 2" (50.8 mm)
Width: 2.25" (57.15 mm)
Depth: 3.89" (98.73 mm)

MECHANICAL–HE1515
Height: 2.36" (59.94 mm)
Width: 2.84" (72.14 mm)
Depth: 4.59" (116.51 mm)

MECHANICAL–HE1525
Height: 2" (50.8 mm)
Width: 2.25" (57.15 mm)
Depth: 4.59" (116.51 mm)

LIGHT COLLECTION
VGA: 640 by 480 pixels

COMMUNICATION PROTOCOLS
Interfaces: TCP/IP, RS-232, Baud rates from 1200 bit/s to 115.2 kbit/s

READ PARAMETERS
Minimum Contrast: 20% at 630nm
Speed: Up to 30 parts per second

EMISSIONS/IMMUNITY
EMC: EN61326, 1998 Class A
Electrical/Mechanical Safety: EN 61010-1:2002
Laser Safety: EN 6082501: 1993 Amendment 2 2001-01

ELECTRICAL
Power: 24V at 350 mA typical

ENVIRONMENTAL
Operating Temperature: 0° to 40°C (32° to 104°F)
Storage Temperature: -20° to 65°C (-4° to 149°F)

SYMBOLOGY TYPES
2D Symbologies: Data Matrix, PDF417, QR Code
Linear Barcodes: Code 39, Code 93, Code 128, UPC/EAN, UPC-E, UPC Supplementals, I2 of 5, BC412, Codabar, Postnet, Pharmacode, GS1 Databar and Composite

VERIFICATION STANDARDS
2D Symbologies: ISO 15415, AIM DPM-1-2006, AS9132/IAQG
Linear Barcodes: ANSI/ISO 15416, DoD-IUID string validation based on MIL-STD-130N

INDICATORS
LEDs: Trigger, Fail, Pass, Mode

SAFETY CERTIFICATIONS
FCC, CE

ISO CERTIFICATION
Issued by Det Norske Veritas
Cert No. 8446-2007-AQ-USA-ANAB

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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–**One year limited warranty on parts and labor. Extended warranty available.

MICROSCAN®

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