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MOBILE HAWK

Mobile Hawk: At a Glance

- *Decodes/second: up to 10*
- *Read Range: contact to 2" (51 mm)*
- *USB Bus Powered*
- *Rugged Ergonomic Design*
- *ISO/IEC 15434, MIL-STD-130, UII Validation Options*

ESP® Easy Setup Program: Single-point software provides quick and easy setup and configuration of all Microscan readers.

For more information on this product, visit ***www.microscan.com.***

Mobile Hawk: Available Codes

Linear	All Standard		
Stacked	PDF417	GS1 Databar	
2D	Data Matrix	QR	Micro QR

Highest-Performance Handheld DPM Imager

The Mobile Hawk is the world's highest performance handheld imager and easily reads any challenging direct part marks (DPM), from linear barcodes to 2D symbols. Using advanced technology, the Mobile Hawk combines patent-pending MAXlite illumination with aggressive X-Mode DPM algorithms.

The result is a truly plug-and-play mobile imager that is easy to use and extremely reliable for low contrast DPM applications.

X-Mode Decode Algorithms
Using advanced X-Mode decode algorithms, the Mobile Hawk consistently captures low contrast, damaged, or otherwise challenging direct part marks. Both linear and 2D symbols are read in any orientation.

Easy to Use
Mobile Hawk imagers feature simple point-and-click targeting, with audible, vibrator, and multipurpose visual user systems to provide real-time feedback. Easy connectivity and portability are ensured with direct, single USB power connection; no additional power connection is required.

Rugged Design
Featuring a ruggedized design with a permanent lanyard hook, the Mobile Hawk includes a secured cable and durable overmolded housing capable of withstanding over 50 drops of 6' to concrete.

MAXlite Illumination
The Mobile Hawk includes MAXlite (Multi-Axis Lighting) technology for even illumination of flat, shiny surfaces, enhancing embossed features, or differentiating features on curved surfaces. The wide range of capabilities ensures reliable reading of the toughest direct part marks.

High Processing Speed
Fast processing speed allows the imager to acquire and decode multiple symbologies within seconds of each other, without any adjustment to the imager.

Application Examples
- Automotive
- Electronics
- Aerospace
- Department of Defense suppliers

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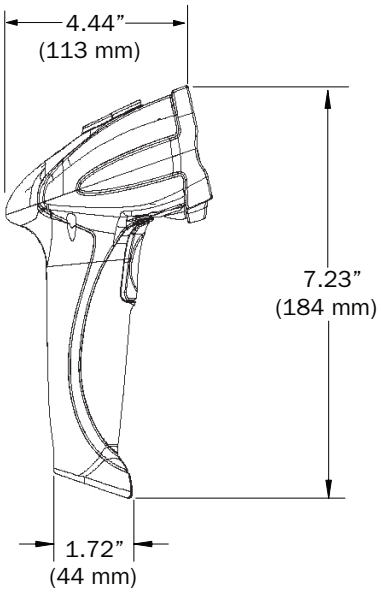
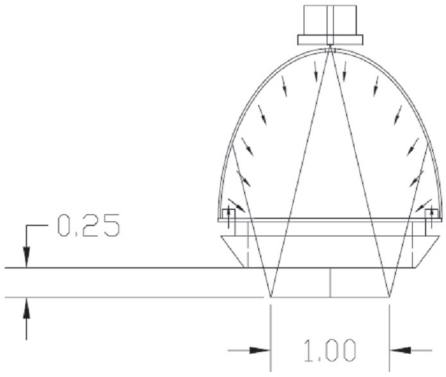
Mobile Hawk Handheld Imager Specifications and Options

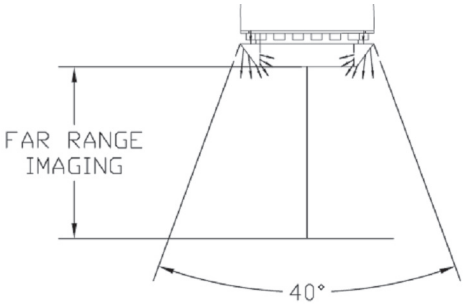
SIDE VIEW



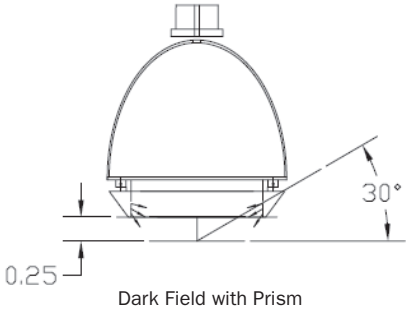
MAXLITE ILLUMINATION



Diffuse Reflective Dome Illumination Method



Bright Field with Prism



Dark Field with Prism

MECHANICAL
Height: 7” (180 mm)
Width: 2.5” (63 mm)
Depth: 4.5” (114 mm)
Weight: 7.2 oz. (204 g), not including cable

ENVIRONMENTAL
Operating Temperature: 0° to 50° C (32° to 122° F)
Storage Temperature: -20° to 65° C (-4° to 150° F)
Humidity: 5% to 95% (non-condensing)
Shock: Withstands over 50 drops of 6’ (1.8 meters) to concrete

MAXLITE ILLUMINATION
Combination dome and dark field illumination system
Dome: Two color, 630 nm (Red) and 470 nm (Blue)
Dark Field: Quadrant 30°, 630 nm (Red)

SYMBOLOGIES
2D Symbologies: Data Matrix, QR Code, Micro QR Code
Stacked Symbologies: PDF417, GS1 Databar (Composite & Stacked)
Linear Barcodes: Code 39, Code 128, I2 of 5, UPC/EAN, Codabar, Code 93, BC 412

DATA VALIDATION STANDARDS
ISO/IEC 15434
MIL-STD-130 (UII formating available)

IMAGE COLLECTION OPTIONS
Sensor: 1280 x 1024 high resolution CMOS

COMMUNICATION PROTOCOLS
Standard Interface: USB, RS-232

READ PARAMETERS
Pitch: ±30° (front to back)
Skew: ±30°
Rotational Tolerance: ±180°
Focal Range: 0 to 2" (0 to 50.8 mm)
Focal Point: Optimal at 0.25” (6.3 mm)
Ambient Light Immunity: Sunlight: Up to 9,000 ft-candles/96,890 lux

INDICATORS
Status Indicators: Vibration motor, audible tones, visual feedback with multi-color LED, blue line targeting pattern

IMAGE OUTPUT OPTIONS
Format: JPEG, TIFF

ELECTRICAL
Power Requirements: 5 VDC (mA)
Typical: 408mA **Peak:** 500mA **Idle:** 285mA

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QMS CERTIFICATION
www.microscan.com/quality

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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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