

HawkEye 35

Hand-Held Data Matrix Reader with Laser Targeting for Item Marking Applications

Product Summary

The HawkEye 35 hand-held reader decodes and autodiscriminates one-dimensional (1-D) bar codes and two-dimensional (2-D) Data Matrix symbols. It specializes in reading Data Matrix symbols and lower contrast marks. Incorporating the latest digital CMOS imaging, symbol recognition, and signal processing technology, the HawkEye 35 provides solid performance over a wide range of operating conditions. Additionally, the HawkEye 35 contains a laser targeting system for easy point-and-shoot accuracy.

The HawkEye 35 uses a standard RS-232 serial port for its communication interface. It is compatible with a wide range of PCs and most portable data collection devices. The connectivity allows the tracking of information from receiving and manufacturing through finished goods inventory, warehousing and distribution.

Features and Benefits

- Easy set-up and point-and-shoot operation
- Ergonomic operational features
- Auto-discriminates 2-D and 1-D bar codes
- Reads damaged codes
- Omni-directional reading
- Wide read range
- Verifies 2-D Data Matrix symbols
- Performs image capture – visual identification

Applications

- Component parts tracking
- Personal identification
- Point-of-sale information capture
- Work-in-process cycle tracking
- Manufacturing quality control
- Finished goods inventory
- Warehousing/distribution
- JIT tracking
- Item authentication



Physical Characteristics

Dimensions:	6.2" H x 2.2" W x 2.5" D (15.7 cm H x 5.6 cm W x 6.3 cm D)
Power Requirements:	10 V to 14 V (<250 mA at 12 V peak)

Performance Characteristics

Interfaces:	RS232; baud rates from 1200 bps to 115.2 Kbps
Field of View:	1.9" to 4.5" (4.8 cm to 11.4 cm)
Depth of Field:	1-D: 2.5" to 4.5" (63.5 mm to 114 mm) from the camera face 2-D: 2.0" to 4.0" (51 mm to 102 mm) from the camera face
Minimum Element Size:	1-D: 0.005" (0.13 mm) 2-D: 0.012" (0.31 mm)
Minimum Contrast Resolution:	1-D: 20% 2-D: 20%
Optical Parameters:	Pitch and Skew: +/- 35° Rotation: 360° Ambient Light: Total darkness to full sunlight
Programming:	Flash memory for software upgrades Optimal PC-based graphical user interface (GUI)
Decode Capability:	1-D: Code 39, I2 of 5, UPC/EAN, Code 128 2-D: Data Matrix

User Environment

Operating Temperature:	32° F to 104° F (0° C to 40° C)
Storage Temperature:	-22° F to 158° F (-30° C to 70° C)
Shock:	Withstands multiple drops to concrete from 5 ft. (1.5 m) Vibration resistance 5 to 60 Hz at maximum 4 G
Humidity:	Up to 80% RH, non-condensing

Regulatory

Electrical Safety:	CE Compliant
Laser Safety:	CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class B

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