

HawkEye 15/ HawkEye 15E

The Complete Fixed-Position Reading Solution For Direct Part Marks (DPM) or Labels on Printed Circuit Boards and Electrical Components

Product Summary

The HawkEye 15 fixed-position one-dimensional (1-D) bar code and two-dimensional (2-D) code reader goes beyond smart camera technology combining unsurpassed laser-targeted reading performance with a compact design for use in tight spaces. A 1/10,000th of a second exposure freezes moving symbols, making the HawkEye 15 ideal for items in motion or where vibration is present. Additionally, the HawkEye 15E offers Ethernet networking capability for fast data capture and transfer.

Using RVSI's unique QuicSet™ laser targeting system, which employs both visual laser targeting and audio feedback, the reader can be positively aligned in seconds, accelerating production line changeover and in-process adjustments. The self-contained unit does not require frame grabbers, Windows® software, video monitors, or even a PC, conserving space and simplifying installation.

The HawkEye 15 offers an integrated illumination system that enhances the contrast of both paper labels and Direct Part Mark (DPM) symbols, providing robust marking tolerances and highly reliable read rates.

In-line verification ensures precise control over in-process marking quality, while sophisticated image processing software accurately captures 2-D DPM symbols under varying conditions.

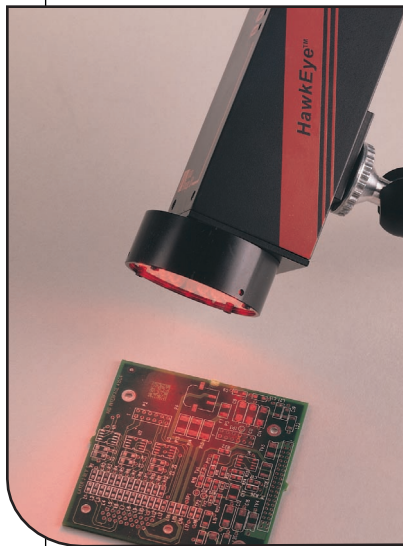
Extensive I/O interface options with electrical isolation and a rich set of programmable features give the HawkEye 15 unsurpassed application versatility and configuration flexibility.

Features/Benefits

- High-speed image exposure reliably scans moving parts using an external trigger
- Sophisticated image processing that consistently and accurately reads bar codes and DPM Data Matrix codes
- Fast and simple alignment using the unique QuicSet dual audio/visual targeting guide
- Aligns and operates without external video monitors or PC connections
- Special integrated lighting enhances low-contrast DPMs for reliable read rates
- Compact size, easy configuration flexibility, and integrated lighting permit mounting in tight locations
- In-line verification capability provides immediate and definitive symbol quality control information
- Intuitive Graphical User Interface (GUI) simplifies scanner management and line control
- HawkEye 15E offers Ethernet networking capability to provide the fastest capability to provide the fastest data capture and transfer

Applications

- Reading labels or laser etched DPMs at high speeds and close reading ranges
- Proven for parts traceability and error proofing



HawkEye 15/ HawkEye 15E

Physical Characteristics

	HE 15MD	HE 15HD
Dimensions:	2.4" H x 2.5" W x 5.9" D 6.01 cm H x 6.35 cm W x 14.98 cm D	2.4" H x 2.5" W x 5.9" D 6.01 cm H x 6.35 cm W x 14.98 cm D
Power Requirements:	12 v at 600 mA typical	12 v at 600 mA typical

Performance Characteristics

Interfaces:	RS232, Baud rates from 1200 bps to 115.2 Kbps.; Ethernet	RS232, Baud rates from 1200 bps to 115.2 Kbps.; Ethernet
Field of View:	1.3" H x 1.0" V at 4.0" 3.30 cm H x 2.54 cm V at 10.16 cm	0.87" H x 0.67" V at 2.5" 2.21 cm H x 1.70 cm V at 6.35 cm
	1.55" H x 1.19" V at 5.0" 3.94 cm H x 3.02 cm V at 12.70 cm	1.0" H x 0.75" V at 3.0" 2.54 cm H x 1.90 cm V at 7.62 cm
	1.80" H x 1.36" V at 6.0" 4.57 cm H x 3.45 cm V at 15.24 cm	1.11" H x 0.85" V at 3.5" 2.82 cm H x 2.16 cm V at 8.90 cm
Depth of Field:	2.5" to 3.5" 6.35 cm to 8.90 cm	2.5" to 3.5" 6.35 cm to 8.90 cm
Minimum Element Size:	1-D: .004" (.1 mm) 2-D: .008" (.2 mm)	1-D: .004" (.1 mm) 2-D: .008" (.2 mm)
Optical Resolution:	644 x 494 Pixels	644 x 494 Pixels
Minimum Contrast Resolution:	20% at 632 nm	20% at 632 nm
Optical Parameters:	Integrated lighting system	Integrated lighting system
Programming:	Windows® 95/98 or NT. Assignable push-button icons, terminal interface, configuration and a rich set of image storage/retrieval options	Windows® 95/98 or NT. Assignable push-button icons, terminal interface, configuration and a rich set of image storage/retrieval options
Decode Capability:	1-D: Code 39, UPC-A, UPC-E, EAN-8, Code 128 2-D: Data Matrix	1-D: Code 39, UPC-A, UPC-E, EAN-8, Code 128 2-D: Data Matrix

User Environment

Operating Temperature:	32° F to 104° F (0° C to 40° C)	32° F to 104° F (0° C to 40° C)
Storage Temperature:	-4° F to 149° F (-20° C to 65° C)	-4° F to 149° F (-20° C to 65° C)
Humidity:	Up to 95%, non-condensing	Up to 95%, non-condensing

Regulatory

Electrical Safety:	UL 1950, CSA 60950, EN90950/IEC 60950	UL 1950, CSA 60950, EN90950/IEC 60950
Laser Safety:	CDRH Class II, IEC Class 2	CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class A, EN55022 Class A	FCC Part 15 Class A, EN55022 Class A

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Specifications subject to change without notice.