

# HawkEye 1525

## Smart Camera Reader for Direct Part Marks on Reflective Surfaces

### Product Summary

The HawkEye 1525 fixed-station reader delivers cutting-edge Data Matrix reading performance in a compact package that fits in the palm of your hand. Unique features such as the patented QuickSet™ audiovisual alignment, auto-learn capability and intelligent imaging simplify integration and deployment providing easy setup, line changeover and maintenance without the use of an external PC.

RVSI's industry-leading decoding algorithms allow the HawkEye 1525 to robustly read damaged, distorted or otherwise challenging codes directly marked on a variety of surfaces at rates of up to 30 parts per second. Built-in verification also enables users to monitor mark quality on a real-time basis to ensure readability. In addition to Data Matrix, the HawkEye 1525 also reads and auto-discriminates a variety of other 1-D or 2-D codes.



The HawkEye 1525 utilizes integrated LED lighting and optics to acquire high-quality images of Data Matrix codes applied on a variety of part surfaces via laser, dot-peen, inkjet, or other marking technologies. Its intelligent imaging selects optimum parameters for each new part, eliminating the need for user intervention often required to deal with part-to-part variations.

The QuickSet audiovisual alignment and unique auto-learn features allow users to easily and reliably align and train the unit in seconds, without the use of any external display or PC during initial setup or subsequent line changeovers. In addition, a powerful graphical interface permits users to remotely monitor and fine-tune performance, capture and review failed part images and other diagnostics, and remotely upgrade the reader's software.

The HawkEye 1525 comes standard with built-in Ethernet networking, serial communications, and enhanced digital I/O capabilities for triggering and easy integration with line equipment. The integrated networking enables remote monitoring and control from any location in the factory.

### Features and Benefits

- Ultra-fast, robust reading of direct part mark Data Matrix symbols and bar codes
- QuicSet feature allows for alignment and part changeover without a PC
- Specialized, integrated lighting system
- Compact, flexible mounting configurations
- In-line verification for immediate, definitive symbol quality control
- Ethernet networking for fast data capture and transfer

### Typical Traceability Applications

- Medical device manufacturing
- Automotive powertrain component production
- Aerospace component fabrication

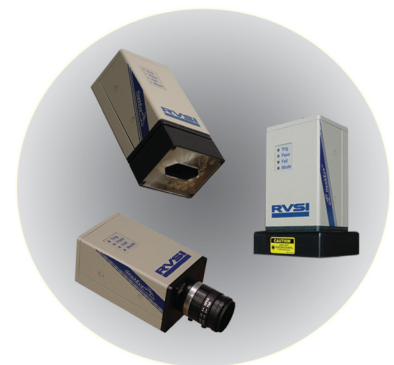
### HawkEye 1500 Series Data Matrix Readers

Whether the application is a printed label or a challenging directly marked part with little or no contrast, the HawkEye 1500 series readers provide cost-effective, robust reading solutions.

**HawkEye 1515:** Universal reader for the broadest range of Data Matrix reading applications

**HawkEye 1525:** Data Matrix reader with distortion-free, dark-field illumination, typically used for highly-reflective parts

**HawkEye 1510:** Data Matrix reader for applications requiring flexibility in the selection of lighting and optics.



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## Specifications

<b>Dimensions:</b>	2.36" H x 2.84" W x 4.40" L (5.99 cm H x 7.21 cm W x 11.17 cm L)	<b>Communications:</b>	Ethernet; RS232, Baud rates from 1200 bps to 115.2 Kbps
<b>Weight:</b>	0.9 lbs (0.4 kg)	<b>I/O:</b>	1 opto-isolated input trigger 3 opto-isolated outputs 4 TTL level I/O Optional TTL level strobe output
<b>Power:</b>	24 v at 350 mA typical	<b>Speed:</b>	Up to 30 parts per second
<b>Optical Resolution:</b>	640 x 480 Pixels	<b>Operating Temp:</b>	32° F to 104° F (0° C to 40° C)
<b>Min Contrast:</b>	20% at 630 nm	<b>Storage Temp:</b>	-4° F to 149° F (-20° C to 65° C)
<b>Lighting:</b>	Integrated bright-field LED with strobe operation	<b>Humidity:</b>	Up to 95%, non-condensing
<b>Decode Capability:</b>	2-D: Data Matrix, PDF417 1-D: Code 39, Codabar, Code 93, I2of5, UPC/EAN, UPC-E, UPC Supplementals, Postnet, Pharmacode, Code 128	<b>EMC:</b>	EN61326:1998 Class A
<b>Verification:</b>	Per AIM specifications	<b>Elec/Mech Safety:</b>	EN61010-1
		<b>Laser Safety:</b>	EN60825-1:1993 Amendment 2 2001-01

## Performance Characteristics

	Field of View:	Working Distance*:	Minimum Element Size:
<b>HawkEye 1525HD</b>	0.87° H x 0.67° V at 2.5° 2.21 cm H x 1.70 cm V at 6.35 cm	2.5° to 3.5° 6.35 cm to 8.89 cm	1-D: 0.003" (0.07 mm) 2-D: 0.006" (0.15 mm)
	1.0° H x 0.75° V at 3.0° 2.54 cm H x 1.90 cm V at 7.62 cm		
	1.11° H x 0.85° V at 3.5° 2.82 cm H x 2.16 cm V at 8.89 cm		
<b>HawkEye 1525SHD</b>	0.50° H x 0.38° V at 3.0° 1.27 cm H x 0.97 cm V at 7.62 cm	3.0° to 4.0° 7.62 cm to 10.16 cm	1-D: 0.0015" (0.04 mm) 2-D: 0.003" (0.07 mm)
	0.55° H x 0.42° V at 3.5° 1.40 cm H x 1.14 cm V at 8.89 cm		
	0.60° H x 0.46° V at 4.0° 1.55 cm H x 1.07 cm V at 10.16 cm		
<b>HawkEye 1525UHD</b>	0.24° H x 0.18° V at 2.13° 0.61 cm H x 0.46 cm V at 5.41 cm	2.125° to 2.375° 5.50 cm to 6.03 cm	1-D: 0.0007" (0.02 mm) 2-D: 0.0013" (0.03 mm)
	0.25° H x 0.19° V at 2.25° 0.64 cm H x 0.48 cm V at 5.71 cm		
	0.26° H x 0.20° V at 2.38° 0.66 cm H x 0.51 cm V at 6.05 cm		

\*Working distance measured from last physical element to part.  
Specifications subject to change without notice.



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