

HawkEye 1510

Smart Camera Reader Allows Flexible Lighting and Optics

Product Summary

The HawkEye 1510 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 auto-learn capability and intelligent imaging simplify integration and deployment to provide easy setup, line changeover and maintenance.

RVSI's industry-leading decoding algorithms allow the HawkEye 1510 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 1510 also reads and auto-discriminates a variety of other 1-D or 2-D codes.



The HawkEye 1510 can be configured with a variety of industry-standard C- or CS-mount lenses and lighting options to acquire high-quality images of Data Matrix codes applied on 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 unique auto-learn feature allows users to easily and reliably train the unit in seconds. The 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 1510 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
- Compact, flexible mounting configurations
- In-line verification for immediate, definitive symbol quality control
- Ethernet networking for fast data capture and transfer

Typical Traceability Applications

- Automotive powertrain component production
- Pharmaceutical and consumer goods packaging
- Aerospace component fabrication
- Medical device manufacturing
- Electronics assembly

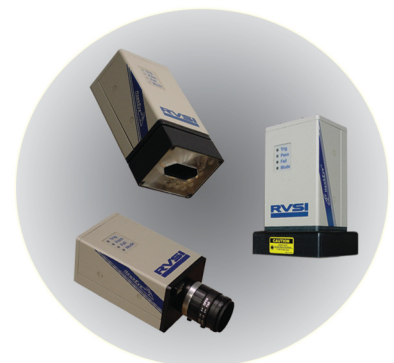
HawkEye 1500 Series Data Matrix Readers

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.



HawkEye 1510

Specifications

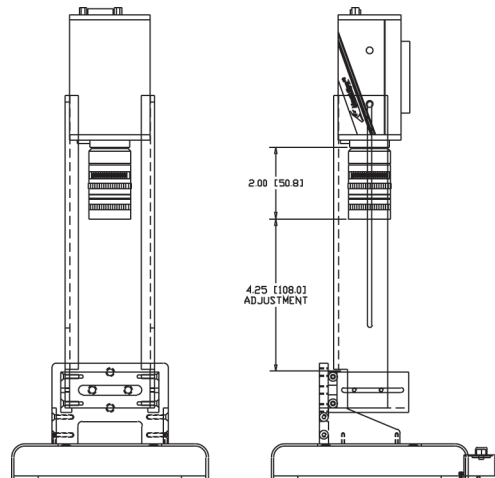
Dimensions:	1.75" H x 2.25" W x 3.70" L (4.44 cm H x 5.71 cm W x 9.39 cm L)	Communications:	Ethernet; RS232, Baud rates from 1200 bps to 115.2 Kbps
Weight:	0.55 lbs (0.25 kg)	I/O:	1 opto-isolated input trigger 3 opto-isolated outputs 4 TTL level I/O Optional TTL level strobe output
Power:	24 v at 350 mA typical	Speed:	Up to 30 parts per second
Optical Resolution:	640 x 480 Pixels	Operating Temp:	32° F to 104° F (0° C to 40° C)
Working Distance:	Dependent on lens selection	Storage Temp:	-4° F to 149° F (-20° C to 65° C)
Min Element Size:	Dependent on lens selection	Humidity:	Up to 95%, non-condensing
Field of View:	Dependent on lens selection	EMC:	EN61326:1998 Class A
Decode Capability:	2-D: Data Matrix, PDF417 1-D: Code 39, Codabar, Code 93, I2of5, UPC/EAN, UPC-E, UPC Supplementals, Postnet, Pharmacode, Code 128	Elec/Mech Safety:	EN61010-1
Verification:	Per AIM specifications	Laser Safety:	EN60825-1:1993 Amendment 2 2001-01

Specifications subject to change without notice.

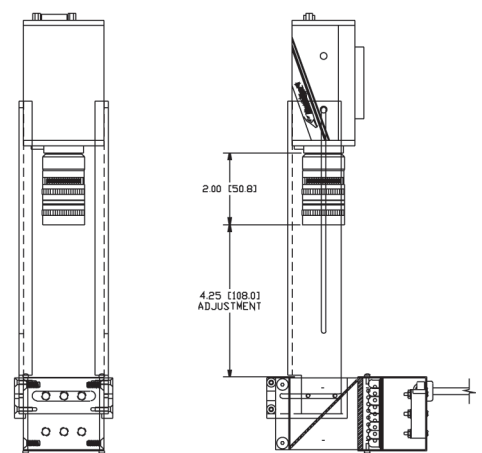
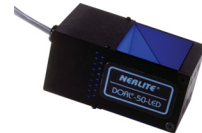
Sample Lighting Options and Mounting Configurations

The HawkEye 1510 can be configured with a variety of RVSI lights, as shown in the sample illustrations below. All mounting brackets and lighting options must be ordered separately to accommodate your specific application requirements.

HawkEye 1510 using an RVSI NER dark-field ring light



HawkEye 1510 using an RVSI NER DOAL light



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