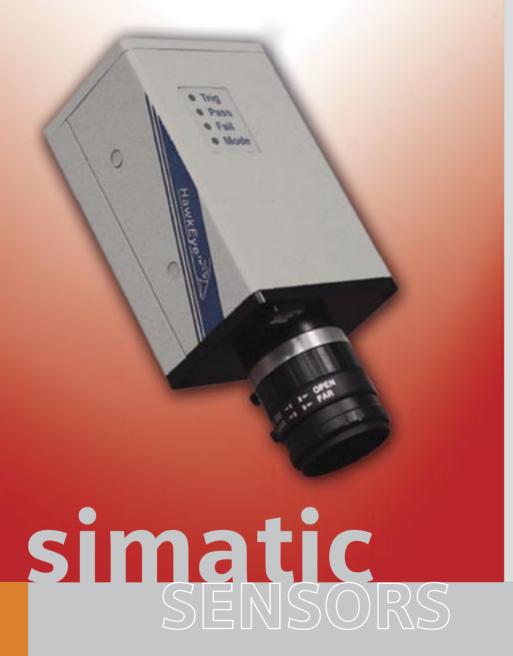# SIMATIC HawkEye 1510
Smart Camera Reader Allows Flexible Lighting & Optics

Product Summary

The SIMATIC 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.

Siemens' 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.

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SENSORS

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

SIEMENS

SIMATIC HawkEye 1510
Smart Camera Reader

Product Summary cont.
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 SIMATIC 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.

Applications
■ Automotive powertrain component production

■ Pharmaceutical and consumer goods packaging

■ Aerospace component fabrication

■ Medical device manufacturing

■ Electronics assembly

Specifications
■ Dimensions:
     1.75" H x 2.25" W x 3.70" L
     (4.45 cm H x 5.72 cm W x 9.40 cm L)

■ Weight:
     0.55 lbs (0.25 kg)

■ Optical Resolution:
     640 x 480 Pixels

■ Working Distance:
     Dependent on lens selection

■ Minimum Element Size:
     Dependent on lens selection

■ Field of View:
     Dependent on lens selection

■ Decode Capability:
     2-D: Data Matrix, PDF417
     1-D: Code 39, Cadabar, Code 93, I2of5, UPC/EAN, UPC-E, UPC Supplementals, Postnet, Pharmacode, Code 128

■ Verification:
     Per AIM specifications

■ Communications:
     Ethernet, RS232, Baud rates from 1200 bps to
     115.2 Kbps

■ I/O:
     1 opto-isolated input trigger
     3 opto-isolated outputs
     4 TTL level I/O
     Optional TTL level strobe output

■ Speed:
     Up to 30 parts per second

■ Operating Temperature:
     32°F to 104°F (0°C to 40°C)

■ Storage Temperature:
     -4°F to 149°F (-20°C to 65°C)

■ Humidity:
     Up to 95%, non-condensing

■ EMC:
     EN61326:198 Class A

■ Elec/Mech Safety:
     EN61010-2002

Sample Lighting Options
The HawkEye 1510 can be configured with a variety of Siemens lights, as shown in the sample illustrations below.

Siemens NERLITE dark-field ring light

Siemens NERLITE DOAL light