

# SIMATIC HawkEye 1515

## Smart Camera Reader Allows Flexible Lighting & Optics



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### Product Summary

The SIMATIC HawkEye 1515 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 while providing easy setup, line changeover and maintenance without the use of an external PC.

Siemens' industry-leading decoding algorithms allow the HawkEye 1515 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 1515 also reads and auto-discriminates a variety of other 1-D or 2-D codes.

The HawkEye 1515 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 that is often required to deal with part-to-part variations.

### Features and Benefits

- Ultra-fast, robust reading of direct part mark Data Matrix symbols and bar codes
- QuickSet 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

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# SIMATIC HawkEye 1515

## Smart Camera Reader

### Product Summary cont.

The QuicSet 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 SIMATIC HawkEye 1515 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

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

### Specifications

- Dimensions:  
1.75" H x 2.25" W x 4.40" L  
(4.45 cm H x 5.72 cm W x 11.18 cm L)
- Weight:  
0.9 lbs (0.4 kg)
- Power:  
24 v at 350 mA typical
- Optical Resolution:  
640 x 480 Pixels
- Minimum Contrast:  
20% at 630nm
- Lighting:  
Integrated bright-field LED with strobe operation
- 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
- Laser Safety:  
EN60825-1:1993 Amendment 2 2001-01