VISIONSCAPE® SMART CAMERA



Visionscape Camera: At a Glance

- · Processes Up To 3600 Parts Per Minute
- · Integrated With Visionscape Software
- · Flexible C-Mount Optics
- · Direct Connect Lighting Options

HE 1610TIS: VGA resolution, with Intellifind

HE 1610TS: VGA resolution, no Intellifind

HE 1610TIH: XGA resolution, with Intellifind

HE 1610TH: XGA resolution, no Intellifind

For more information on this product, visit www.microscan.com.

Visionscape Camera: Capabilities



- Image processing
- · Image analysis & feature extraction
- · Flaw detection
- · Object location
- · Dimensional measurements

OCR/OCV ABC123

2D Symbols

· Custom processing options

Integrated Machine Vision System

The Visionscape Smart Camera (formerly HawkEye® 1600T) combines a compact form factor with the broad applicability, versatility and proven performance of Visionscape software. Designed for use in a wide range of applications, the Visionscape smart camera provides a cost-effective, easily deployed solution for manufacturers to monitor quality, control processes, or identify and trace parts on production lines.

Flexible Configuration

The Visionscape smart camera features C-mount optics and separate lighting. with built-in digital I/O, serial communications, and Ethernet networking. All processing is done on-board using a high performance, embedded CPU.

Visionscape and Intellifind

Integrated Visionscape software offers powerful processing for image transformation and analysis, including high-level tools for character verification (OCR and OCV), and reading and verifying a wide range of barcodes. The optional Intellifind tool provides robust object finding and pattern recognition.

Rugged Design

With a cast alloy IP67 enclosure and M12 connectors, the Visionscape smart camera is an ideal choice for the toughest industrial applications.

Application Examples

- Assembly verification (automotive, medical devices, packaging)
- Print quality inspection (pharmaceutical, other)
- Package quality inspection (food and beverage)
- Component presence/ absence checking (electronics)
- Part location (robotics, machine builder)
- Part identification (automotive, electronics, packaging)





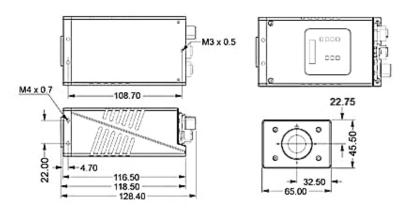


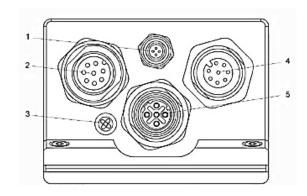
Shape Inspection

Pattern Comparison **Object Finding**



Visionscape[®] Smart Camera Specifications and Options





MECHANICAL

Height: 2" (50.8 mm) Width: 2.25" (57.15 mm) Depth: 3.89" (98.73 mm) Weight: 1.70 lbs (0.77 Kg)

LIGHT COLLECTION

Progressive scan, full frame and partial frame Sensor: 1/3 inch CCD

HE1600TTXS: VGA (640 by 480 pixels) **HE1600TTXH:** XGA (1024 by 768 pixels)

COMMUNICATION PROTOCOLS

Interfaces: Ethernet 10/100 MB, supports TCP/IP, DHCP, APIPA and static IP address Software Flow Control: RS-232

IMAGING RATES

HE1600TTXS: 60 full frame images/second HE1600TTXH: 30 full frame images/second

ELECTRICAL

Power: 24V at 300 mA (7 W) Supply Voltage: 20.4 to 28.8 V

INPUTS/OUTPUTS

Trigger input: Outputs 1-3: 50 mA

Universal I/O 1-4: (Optoisolated) 20 mA at

24 VDC

ENVIRONMENTAL

Operating Temperature: 0° to 50°C

(32° to 122°F)

Storage Temperature: -10° to 70°C

(-14° to 158°F)

Storage: Up to 95% (non-condensing)

SYMBOLOGY TYPES

2D Symbologies: Data Matrix, PDF417, QR

Linear Barcodes: Code 39, Code 93, Code 128, UPC/EAN, UPC-E, UPC Supplementals, I2 of 5, BC412, Codabar, Postnet, Pharmacode, **GS1** Databar and Composite

INDICATORS

LEDs: Trigger, Fail, Pass, Mode, Power, Link, Activity

INPUTS/OUTPUTS

LEDs: Trigger, Fail, Pass, Mode, Power, Link,

SAFETY CERTIFICATIONS

FCC, CE

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Issued by Det Norske Veritas Cert No. 8446-2007-AQ-USA-ANAB

CONNECTORS

0011112010110	
No.	Function
1	Lighting Power and Strobe
2	X1 Power and Primary IO
3	QuicSet
4	Secondary IO and Serial
5	X4 Ethernet

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