

# VISIONSCAPE® GIG E



## Integrated GigE Vision Solution

From an economical single camera system to a sophisticated eight camera application, Microscan's Visionscape GigE Solution contains all necessary components for a complete, successful machine vision implementation.

PC-based Gigabit Ethernet systems leverage standard network components such as cabling, switches and interface cards. Visionscape GigE supports a complete set of Microscan machine vision GigE cameras which, in combination with Visionscape software, allows for rapid deployment of any scale of machine vision solution.

### Visionscape GigE: At a Glance

- High speed, high resolution image processing
- Provides full capabilities of powerful Visionscape software
- System implementation uses standard network components
- Support up to eight Visionscape GigE cameras
- GigE cameras in multiple configurations, including:

**VGA MONO or COLOR CCD**

**VGA MONO CCD High Speed**

**XGA MONO or COLOR CCD**

**SXGA MONO or COLOR CCD (1.3 Megapixel)**

**UXGA MONO or COLOR CCD (2 Megapixel)**

**QSXGA MONO or COLOR CCD (5 Megapixel)**

**QSXGA MONO or COLOR CMOS (5 Megapixel)**

**QUXGA MONO CCD (8 Megapixel)**

For more information on this product, visit [www.microscan.com](http://www.microscan.com).

### Visionscape GigE: Capabilities

- Linear Barcodes  • Image processing  
 • Image analysis & feature extraction
- 2D Symbols  • Flaw detection  
 • Object location
- OCR/OCV ABC123 • Dimensional measurements  
 • Custom processing options

#### Gigabit Ethernet (GigE)

Gigabit Ethernet allows for high speed data transfers at one gigabit per second. With the Visionscape GigE solution, this system can be easily deployed using standard low-cost network components, long cable lengths and no frame grabber boards.

#### Flexible Configuration

Visionscape GigE cameras feature C-mount optics, and built-in strobe and trigger connections. A wide variety of sensor resolutions are available, ranging from VGA to QUXGA (8 MP), with CMOS, CCD, and color options.

#### Compact and Lightweight

Most Visionscape GigE cameras weigh less than 4 oz. with a small form factor to allow flexible positioning in tight spaces or mounting in robotic applications.

#### User Interfaces

Visionscape FrontRunner engineering user interface enables quick and easy creation of complex vision applications. The AppRunner runtime interface provides complete system status, application monitoring and results.

#### 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)

**MICROSCAN®**

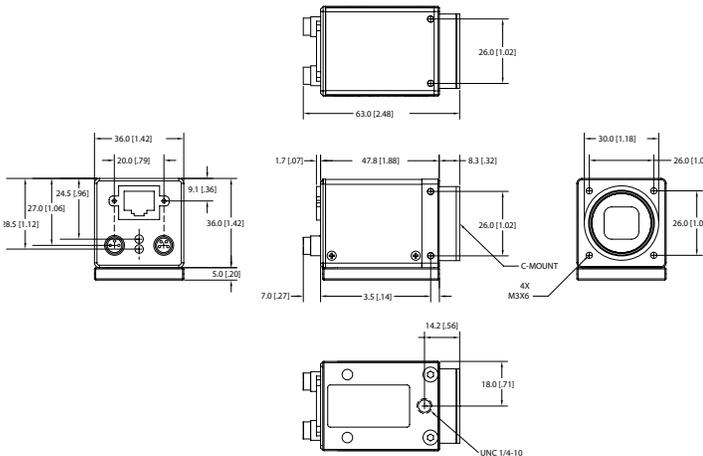
**Specifications for Visionscape GigE PC**

**MINIMUM PC REQUIREMENTS:**

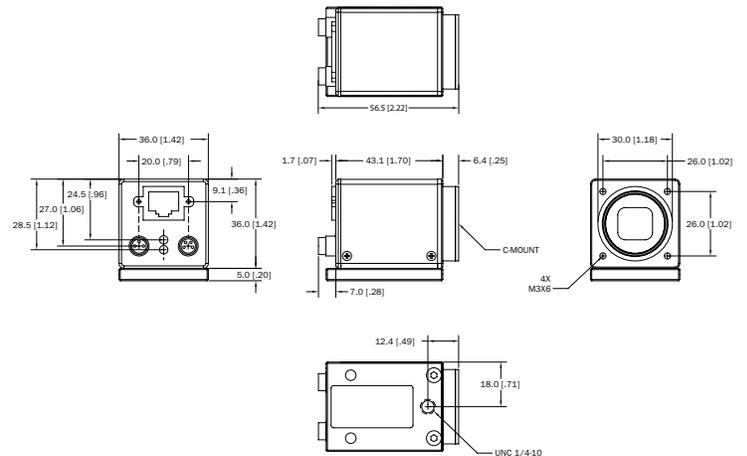
- Intel® Core™2 Duo Processor
- Internet Explorer 7 or higher
- 2GB RAM/128MB Video RAM (Windows 7); 1GB/128MB Video RAM (XP)
- 750MB hard drive space
- 16-bit color display
- 3.0 Windows Experience Index
- 1 USB port and 1 Network port
- Open PCIe slot for digital I/O card (if required)
- Built-in GigE network card or open slot for GigE network interface card

**Specifications for Visionscape GigE Cameras**

**CCD CAMERA MODELS\***



**CMOS CAMERA MODELS**



Note: Nominal dimensions shown. Typical tolerances apply.

**MECHANICAL (CCD)\***

**Height:** 1.42" (36 mm)  
**Width:** 1.42" (36 mm)  
**Depth:** 1.88" (47.8 mm)  
**Weight:** ≤ 3.17 oz. (90 g)

**MECHANICAL (CMOS)**

**Height:** 1.42" (36 mm)  
**Width:** 1.42" (36 mm)  
**Depth:** 1.70" (43.1 mm)  
**Weight:** ≤ 3.17 oz. (90 g)

**COMMUNICATION PROTOCOLS\***

**Interfaces:** Gigabit Ethernet

**LIGHT COLLECTION**

Progressive scan, full frame and partial frame

**ELECTRICAL\***

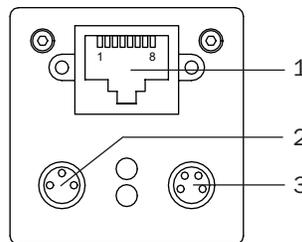
**Power:** 8 VDC at 450 mA to 30 VDC at 135 mA  
**Power Consumption:** ~ 4 W

**ENVIRONMENTAL\***

**Operating Temperature:** 5° to 50° C (41° to 122° F)  
**Storage Temperature:** -10° to 70° C (-14° to 158° F)  
**Humidity:** 10% to 90% (non-condensing)

**CONNECTORS**

No.	Function
1	RJ45 Gigabit Ethernet
2	M8-3 Power
3	M8-4 Trigger & Strobe



**SYMBOLGY TYPES**

**2D Symbolgies:** Data Matrix, PDF417, QR Code  
**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

**SAFETY CERTIFICATIONS**

FCC, CE, UL

**ROHS/WEEE COMPLIANT**

**ISO CERTIFICATION**

Certified ISO 9001:2008 Quality Management System

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Performance data is determined using high quality Grade A symbols per ISO/IEC 15415 and ISO/IEC 15416 in a 25°C environment. For application-specific results, testing should be performed with symbols used in the actual application. Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality.  
**Warranty**—For current warranty information on this product, please visit [www.microscan.com/warranty](http://www.microscan.com/warranty).

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\* Dimensions and specifications shown represent the most common camera models. Additional drawings and data can be found in the Visionscape GigE Camera User Manual.