

Microscan's machine vision systems are a comprehensive line of software and hardware solutions, with total scalability from smart camera systems to PC-based solutions, which accommodate all user levels and applications. AutoVISION™ features an intuitive interface for easy setup and deployment of vision applications, including scalability to Visionscape® for more complex configurations and advanced programming capabilities.

AutoVISION Software: For Novice Users and Basic to Mid-Range Applications

Available Hardware:



■ Complete Tool Set

Includes Microscan's X-Mode 1D/2D decoding and fully teachable OCR, along with Locate, Measure, Count and Detect tools for inspection and control applications.

■ Immediate Feedback

Provides real time feedback and results as a device is being configured or during programming.

■ Scalable to Visionscape

For applications demanding more flexibility or configuration options, AutoVISION jobs can be opened with Visionscape Frontrunner enabling scripting and other advanced programming capabilities.

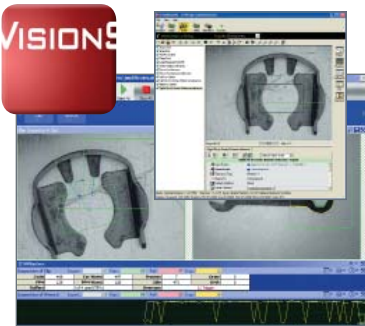
- Vision MINI
- Vision HAWK

Capabilities:

- 1D/2D symbol decoding
- Optical Character Recognition (OCR)
- Dynamic part location
- Assembly verification
- Dimensional measurements
- Code content checks

Visionscape Software: For Advanced Users and Complex Applications

Available Hardware:



■ FrontRunner Interface

"Engineering" GUI provides a visual approach to application development, training and evaluation using an intuitive tree structure for maximum flexibility.

■ AppRunner Interface

"Monitoring" GUI displays run time images, graphics and results; same data also available in a web-based smart camera HMI.

■ GigE

Camera interface standard using Gigabit Ethernet communication protocol to allow fast image transfer using standard network components and long cable lengths.

■ Intellifind

Geometric pattern match tool for robust pattern location and pattern recognition in noisy images; includes rotation and scale measurement.

- Vision MINI
- Vision HAWK
- VS-1 Camera
- GigE Camera
- Frame Grabber

Capabilities:

- All AutoVISION features
- Optical Character Verification (OCV)
- Image transformation and scaling
- Precision calibration
- Custom vision tools (scripting)

Lighting and Accessories

■ NERLITE® Lighting

Lighting and imaging systems designed specifically for machine vision, allowing reliable performance in any imaging application.



■ I/O modules

Enable the use of discrete inputs and/or outputs with a PC that has Visionscape boards installed.



- Analog VGA and SXGA cameras
- Standard C-mount lenses, filters, and spacers
- Cables, mounting hardware, power supplies, and calibration targets

Vision MINI: Smart Camera Vision System

- Smallest fully integrated smart camera is ideal for implementing robust inspection in tight spaces, and includes high resolution and color models.

Benefits: Fully integrated with lens and lighting, autofocus, ultra compact size



System Components:

- Vision MINI camera with built-in lens, lighting, USB communication cable, and integrated AutoVISION or Visionscape software

Vision HAWK: Smart Camera Vision System

- Industrial smart camera features rugged plug-and-play design with embedded Ethernet and optional C-mount lensing.

Benefits: Fully integrated with lens and lighting, IP65/67, built-in I/O, Ethernet



System Components:

- Vision HAWK camera with built-in lens, lighting, and integrated AutoVISION or Visionscape software
- Ethernet cable
- Power cable

VS-1: Smart Camera Vision System

- Cost-effective and easily deployed solution with all the powerful tools and features of Visionscape software, plus support for EtherNet/IP and a web-based HMI.

Benefits: Low cost and quick deployment, application portability, built-in digital I/O



System Components:

- VS-1 smart camera and integrated Visionscape software
- C-mount lens and extension tube
- Ethernet cable
- Power cable
- NERLITE lighting

GigE Cameras: GigE Machine Vision

- Interfaces multiple Gigabit Ethernet cameras from VGA to 5 megapixel resolution, including low cost CMOS and color cameras.

Benefits: Lower cost, longer cables, smaller footprint, Power over Ethernet



System Components:

- Visionscape software
- Visionscape GigE camera
- C-mount lens and extension tube
- Network components
- NERLITE lighting

Frame Grabbers: PC-Based Machine Vision

- Scalable line of frame grabbers supports flexible interfaces of high speed, high resolution analog or digital cameras with on-board support for digital I/O.

Benefits: Multiple cameras, high speed applications



System Components:

- Visionscape software
- Visionscape frame grabber
- Analog or digital camera
- C-mount lens and extension tube
- Camera cable
- Input/output modules
- I/O connection accessories
- NERLITE lighting

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