

# Smart Factory Vision Inspection, AB CompactLogix L16| Multimedia Courseware

**Machine Vision Basics - WX24953-BB01UEN-E1**

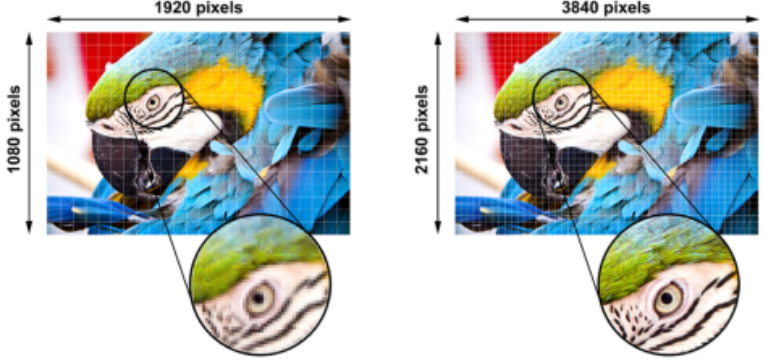
Objective 2: Describe the Basic Operation of a Machine Vision System

**Digital Camera Resolution**

The digital image captured by a machine vision camera consists of a collection of small areas called pixels. Each pixel matches the color and brightness of corresponding areas in the original object.

The number of pixels in a digital image is described by the camera's resolution. Higher-resolution cameras create digital images with more pixels and more detail.

The required resolution setting for a vision system camera depends on factors such as part size and inspection tolerances.



AMATROL

Page 10 of 33

## Multimedia Courseware: M24953

Amatrol's Vision Inspection Learning Systems teach the use of web-based maintenance communications in a [Smart Factory](#) environment. These systems use a machine vision camera to examine parts traveling through the 870-series Mechatronics system and signal a PLC to reject or accept parts based on results from the examinations.

The Smart Factory network communications training systems feature real-world scenarios learners will encounter on the job, including configuring PC Vision Programming Software. The courseware combines hands-on skills practice with in-depth multimedia curriculum for a well-rounded learning experience that will prepare learners to make an immediate impact in the technologically-advanced Smart Factory environments of the present and future through major topics like machine vision basics, machine vision operation, and machine vision software.

---

### Teach Hands-On Skills

#### Engaging, Highly-Interactive Multimedia

Amatrol's curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.

---

### Additional Info

## • Additional Requirements

- [Mechatronics Learning System \(Allen-Bradley\) \(870-AB53A\)](#) or [Mechatronics Learning System \(Siemens\) \(870-S715\)](#)
  - Computer: [See requirements](#)
- 

### Address

**Amatrol**  
**2400 Centennial Blvd**  
**Jeffersonville, IN 47130**

### Contacts

**email: [contact@amatrol.com](mailto:contact@amatrol.com)**  
**phone: (800) 264 8285**