

Overview

High speed camera systems used in manufacturing for process uptime and quality control have three main components (1) capture hardware (2) processing hardware and (3) display/operator software. Any complete system is only as good as the individual parts. ECS offers a full range of options within each component group to ensure the solution is exactly matched to the application. Typically systems in the packaging sector use the ECS RetroSpek single screen software while systems that require web inspection and defect tracking use the ECS View package. Regardless of the configuration all systems utilize the same simple building blocks: GigE cameras connected with standard Ethernet cables to off-the-shelf computers. This creates highly scalable systems with minimal total cost of ownership. Multiple camera systems can be a collection of MRU bricks or permanent cabinets or a combination of both.

Example Configurations

Converting - no installation requirement

One GigE camera with SSF LED, portable mounting. MRU (modular recording unit) brick attached to machine HMI with touch screen monitor. Single cable to light and power. RetroSpek software. Wireless/mill network access for system control and review.

Paper Machine – permanent installation with conduit

Multiple GigE cameras, LED lights, enclosures, permanent mounts, full sized interface cabinet, wireless roaming camera, mill wide review with web inspection. 46" to 60" high definition real-time monitors. Full OPC server on ECS mill system computer.



Capture Hardware



Processing Hardware



Display – Operator Software

Capture Hardware

- GigE Camera
- Portable Mounting
- Mini Camera Enclosures
- LED Lighting
- Remote Control Pan and Tilt
- Permanent Mounting
- Lipstick Insertion Cameras
- Full-size Enclosures
- Remote Control Lens

Processing Hardware

- MRU Brick
- Portable Laptop
- Permanent Cabinet
- Small Form Factor Rack
- Shippable SKB
- NEMA 4 Tower
- Stainless Steel Kiosk
- Wireless Access Point

Display – Operator Software

- Single Screen RetroSpek
- Software Option Gray-scale Image Processing
- ECS View Multi-Camera
- Gray-scale Image Processing – Standard Option
- Software Options Web Inspection
- Wall Mounts Review Station
- Touch Screen Interface
- Large Wide Screen Live or Review System Monitors
- Primary Review Station
- Mill Network Review Stations