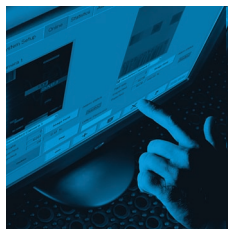


# KromaKing<sup>®</sup> VISION SYSTEMS

## Color Decoration Inspection (CDI) and Monitoring System



### For automatic 100% inspection of color decoration on today's bottle cans

With high-resolution imaging and unprecedented processing power, the KromaKing CDI system maximizes the advantages of machine vision for today's canmakers.

Because sophisticated bottle can designs and decoration are more costly to produce, minimizing spoilage is more crucial than ever.

Concurrently, there are fewer and fewer trained color inspectors to meet the rising demand. With decades of leadership in automatic label and decoration inspection technology, Applied Vision delivers the ideal solution – and introduces yet another industry standard.

For world-class inspection capabilities that save you valuable time and cost, there's simply one choice. KromaKing. Available only from the global leader in machine vision for the food and beverage industry.



## Color Decoration Inspection (CDI) and Monitoring System

Powerful, precise, and integrated for optimal performance, this KromaKing inspection and monitoring system is specifically designed for today's demanding, high-quality color decoration on bottle cans.

Key CDI system capabilities include:

**Automatic 100% inspection** of the entire surface of every can on the decorator, at line speed

**High-resolution imaging** for sophisticated analysis and highly precise color measurement – Delta E traceable to customer standards

**Immediate reduction of hold-for-inspection costs** by providing lab-quality color measurement on the production line

**Sophisticated process monitoring tools** and system integration in the decorator for the earliest possible detection of trends/potential problems – further minimizing spoilage

**The most accurate detection available** of even the slightest decoration defect – up to twice as accurate as human visual capacity

**Minimal false reject rates** – increased power and algorithmic sophistication to recognize and tolerate normal process variations



*Automatic 100% inspection of color on the entire surface of every bottle can helps to ensure the highest quality possible.*

### Detects:

- Color drift • Registration shift • Spatial or pattern defects • Scumming
- Localized errors

### Features:

- Easy setup, reliable automatic operation • Ease of use: intuitive, simple terminology, easy-to-understand graphics • Remote-mounted flat-panel touch screen user interface • On-line setup • Automatic image intensity adjustment for each part
- Solid-state lighting • Vision controller • Process feedback • Remote diagnostics monitoring and control • Digital I/O alarms • NEMA rated packaging

**Get quick setup, 100% inspections at line speeds – and minimize costly spoilage. Look into Applied Vision's complete line of simply smart systems for food and beverage packaging inspection.**

### Specifications:

#### Environment:

- 0-45° C (32-113° F), Up to 90% Relative Humidity Non-Condensing
- Dual Vertical Dimensions: 71 cm x 122 cm x 36 cm (28"w x 48"h x 14"d)
- Power: 120 or 230 VAC
- Air Requirements for Reject Blowoff: 410-550 kPa (60-80 psi)

#### Communications:

- Digital I/O – Discrete Optically Isolated 8 Inputs and 16 Outputs
- Optional – Extended Configurable I/O for Results Export Feature
- Optional – Full Remote Operation via Phone Modem or Network Connection

#### Color:

- Color Spaces Supported: RGB, CMY, HSI, Density, Lab
- Color Difference Metrics Supported: Delta RGB, Delta E, Delta E<sub>CMC</sub>
- Color Measurement Stability:
  - Conditions: Measurement Region > 50mm<sup>2</sup>; Number of Measurements Averaged > 100
  - Delta RGB < 5 Grayshades
  - Delta E < 1



*Specifications are subject to change without notice.*



**APPLIED VISION**  
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