

Orion[™] Inspection System

Colorimetric check and comparative measurement in one smart machine





Orion™

Applied Vision Corporation, the world leader in color inspection for the metal container industry, announces the latest addition to its portfolio of color inspection products.

Orion inspects 100% of two piece cans on the production line at manufacturing line speeds providing complete 360° coverage of the can. Orion creates a pristine unwrapped color image of the entire can surface and compares it to the digital master. Any differences – spatial defects, color shifts, registration, UPC degradation, fabrication flaws in the printing plates – are flagged, and out-of-spec cans are rejected.

Orion is capable of performing detailed colorimetric measurements of cans on the manufacturing line providing 360° imaging coverage on both coated and uncoated cans.

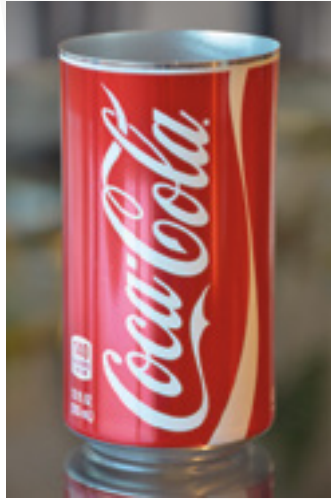
Its unmatched color capabilities provide the user with chosen color spaces, (Lab, Luv, RGB, XYZ, CMY, HSI, LCh, or user specified) and an overall ΔE unmatched in the industry for repeatability and accuracy.

Applied Vision's mastery of color recognition and measurement is evident in our portfolio of established KromaKing® decoration inspection products.

Our Colorimetric systems have abilities to measure color in both absolute or differential formats, with the ability of providing color measurements traceable to international governing standards. Orion and DecoMatch (offline deco verification and digital mastering system) are colorimetric measurement systems.

Detects:

- Pattern defects
- Color deviations
- ΔE color measurements
- Print misregistration
- UPC verification
- Blanket, mandrel and pin defect correlation



Orion unwrapped images



Patent Protected

The origin of this technology dates back to the early 1990s. Applied Vision currently holds 35 United States Patents, 10 of which are related to color, with four of them directly connected to Orion.



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|---------------------|---------------------|
| RE42,715 E | 7,308,142 |
| 8,014,586 | 7,313,270 |
| 7,667,836 B2 | 7,394,937 B2 |
| 7,684,034 B2 | 7,262,779 |
| 7,379,177 B1 | 7,187,797 B2 |

More patents pending.





Specifications

- The only camera-based system that provides color measurements traceable to the standards of the National Institute of Standards and Technology (NIST)
- Complimentary to other Applied Vision color measurement instruments for total color conformity
- ΔE Measurement system; to ± 0.5
- Density measurement capability
- Color space measurements (Lab, Luv, RGB, XYZ, CMY, HSI, LCh or user specified)
- Accommodates tilt on pin-chain and conveyor
- Imaging and inspection performed on both base-coated and non-coated cans
- Power requirements: 110-220 VAC
- Operating temperature: 0-55°C
- Dimensions: 27" x 27" x 14"

Specifications subject to change



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