

Genius[®]

Color Vision Systems

Applied Vision creates the industry's most advanced vision and automated inspection systems by applying application-specific expertise in imaging technology, software algorithms and user interface.

The new family of **Genius[®]** color vision systems provides convenient and accurate color measurements. These portable and inline production systems measure multiple regions of color in complex patterns for optimum color accuracy.

Spot Color versus Smart Color

Traditional colorimeters cannot simultaneously measure multiple color points in a complex pattern. Genius has been designed with advanced vision technology, which includes consistent, solid-state illumination, high-resolution digital camera, intelligent pattern locator and precision calibration techniques for "Smart" color measurement.

Applications

The Genius color vision systems are specifically designed to analyze and verify the accuracy of any color and overall pattern in any printing process, including web and offset printing of paper, cardboard, foil and synthetic materials. Genius can be used to quickly and accurately match colors to a golden sample, which ensures consistency throughout a run, as well as across multiple runs, even at multiple locations.

Users can select the color area to be quantified and the Genius system will precisely identify individual colors as well as overall color fidelity. Accurate color measurements are provided in Delta E, Delta Lab, RGB, and CMY values.



Reference Image: The "Golden Sample" is stored digitally for permanence and portability. Operators can manually select multiple color reference areas throughout the pattern.



Sample Image: Printed samples are imaged with the same digital precision as the reference image for optimum consistency.



Comparator: A unique "Comparator" tool displays color and pattern differences to assist press operators in achieving a perfect match.



Question:
Which blue dot is the brightest?

(Answer on back)



APPLIED VISION
Makers of Smart Machines

Genius[®]

Vision Systems

Genius[®] IC Imaging Colorimeter



Genius IC portable color vision system provides fast and accurate color measurements in printing, packaging, proofing and ink formulation applications. Designed for complex printed patterns, this unique colorimeter tool allows the operator to measure colorimetric changes in multiple areas of interest compared to a reference image.

Genius IC includes a laptop computer and software interface to provide user-friendly operation. An intelligent Pattern Locator automatically positions the acquired image in precise location for comparison to the stored reference image. The system will provide Delta E, Delta Lab, RGB, and CMY color measurement values.

Genius[®] IQ Imaging Quantification System

The Genius IQ color vision system is a process quality control solution for every form of continuous printing, including Web, Gravure, Flexo and Offset presses. Genius is designed to inspect for the following defects: color variations, misregistration, hazing, streaks, color smears, spots, splashes, misprints and spatial defects.

This production system utilizes an automated sampling process to achieve 100 percent inspection coverage. Genius IQ includes camera, optics, lighting, programmable traversing slide gantry, and vision controller with touch-screen LCD display.



Answer:
The blue dots are identical!

The human eye can be easily fooled. If color accuracy is important to you, leave nothing to chance. Use Genius!



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