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GretagMacbeth™
The Business of Color Perfection

The Color-Eye® 2145 Spectrophotometer. An Exceptional Value In Precision Color Analysis.



The Color-Eye 2145 Puts You In Control Of Color.

Accurate, Yet Surprisingly Affordable
The GretagMacbeth Color-Eye 2145 is a compact, benchtop instrument that provides color measurement accuracy obtainable only from a true spectrophotometer, yet it costs no more than a colorimeter. The affordability of the Color-Eye 2145 enables many more organizations to gain the benefits of precise color analysis for color quality control, color formulation or color matching applications.

Repeatability and Interinstrument Agreement a Colorimeter Can't Match
The Color-Eye 2145 spectrophotometer takes measurements across the visible spectrum at very fine intervals, while a colorimeter takes relative, broad readings through three filters. Not only are colorimeter readings far less accurate, but the filters are subject to degradation over time. With the Color-Eye 2145 spectrophotometer there is no long term drift, so measurement accuracy is maintained for the life of the instrument. The readings are repeatable time after time and from instrument to instrument. In addition, readings from the Color-Eye 2145 match readings taken with the portable GretagMacbeth ColorChecker® 545, providing even greater system flexibility.

The Performance of Pulsed Xenon Light
The Color-Eye 2145 utilizes a state-of-the-art pulsed xenon light source to ensure accurate measurements. The short-duration, high-intensity beam eliminates the effects of ambient light, requires no warm-up, produces no sample heating and offers extended life.

The Solution to Color Problems
The Color-Eye 2145 brings GretagMacbeth quality and performance to a broad range of industries where precise color measurements are the key to preventing color problems. Among them are paints, coatings, textiles, plastics, automotive, food and graphic arts. The unit is very easy to operate, takes up very little space and is ruggedly built to withstand the rigors of constant use and harsh environments.

Versatile Software Packages to Meet a Wide Range of Applications
GretagMacbeth offers a variety of modular software packages for use with the Color-Eye 2145, enabling you to set up a color control system to meet your exact needs.

The Color-Eye 2145 combined with GretagMacbeth Optiview® software provides a cost-effective, high-integrity color quality control system. It enables you to check the color of incoming materials, maintain color consistency during production and improve accuracy of final inspections. The benefits are less material waste, lower production costs and fewer product rejects.

For color matching and color formulation applications, the Color-Eye 2145 can be combined with GretagMacbeth's exclusive industry-specific Optimatch® software for plastics, textiles and coatings.

The GretagMacbeth P.O.P.-Eye® System, built around the Color-Eye 2145, is designed for color matching and color formulation in retail paint stores.

Specifications

Repeatability (white tile)	
(typical)	0.04 RMS ΔE CIELAB
(maximum)	0.10 RMS ΔE CIELAB
Interinstrument Agreement	
(typical)	0.12 Avg. ΔE CIELAB*
(maximum)	0.20 Avg. ΔE CIELAB*
Illumination	Pulsed Xenon
Spectral Range	360 nm to 750 nm
Wavelength Interval	10nm
Photometric Range	0-120%
Photometric Resolution	14 bits
Aperture	0.63" (16mm)
Optical Configuration	45°/0° (influx/efflux geometries)
Dimensions	9.375" high, 7.125" wide, 14.75" deep
	(23.8 cm high, 18.1 cm wide, 34.5 cm deep)
Weight	15 lbs. (6.8 kg)
Temperature (operating)	60° to 90°F (15° to 32°C)
Relative Humidity	0% to 90% (non-condensing)
Power Consumption	48 watts peak
Electrical Requirements	117 VAC/50-60 Hz
	230 VAC/50-60 Hz

*Average ΔE of BRCA ceramic standards relative to GretagMacbeth standardized values.

To learn more about the Color-Eye 2145 spectrophotometer, contact your nearest GretagMacbeth location.

COLOR DATA PRODUCTS. DENSITOMETERS. LIGHTING. MUNSELL COLOR.

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The Business of Color Perfection

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Visit our World Wide Web Site at www.gretagmacbeth.com

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