

ColorEye® 640 & 740

Reference Spectrophotometers



for precise
color control
of effect surfaces

The GretagMacbeth benchtop ColorEye 740 series and portable 640 series spectrophotometers are the most accurate way to QC metallics, pearlescents, grained plastics, anodized aluminum, and other effect surfaces. These advanced multi-angle instruments can be used in the laboratory and on the production floor for testing incoming materials, production samples, or finished products.

Engineered to deliver uncompromising performance

Three unique pressure sensors ensure precise alignment, while four high-performance xenon lamps flash almost instantaneously for a total measurement time of just 0.15 seconds. The result: superior measurement accuracy.

In addition, the units continuously monitor ambient air temperature and indicate when calibration is required, further ensuring precise, repeatable readings. Plus, you can select the instrument with an aspecular optical configuration that best suits your needs.

A complete color control system

For in-depth data analysis, measurement information can be downloaded to GretagMacbeth's Optiview® color quality software, which features automatic tolerancing of all angles. In addition, the compact benchtop ColorEye 740 series and the portable ColorEye 640 series provide excellent agreement with each other. This total measurement compatibility lets you create a network system that can significantly increase the flexibility of your color monitoring operation.

Unique Color-Eye 640 reads curved surfaces

The portable ColorEye 640 is the only multi-angle spectrophotometer capable of accurately reading a curved surface. Whether operated vertically or horizontally, right- or left-handed, this lightweight instrument is easy to hold and read. Onboard software guides the user through operations such as measure or calibrate with clear, understandable icons. Plus, the software is user-programmable so you can create your own easy-to-follow task list such as "measure right front bumper," "measure hood," etc.

Take difficulty out of inspecting effect surfaces

With their operating simplicity, network capability, rugged construction and outstanding performance, the GretagMacbeth ColorEye multi-angle spectrophotometers are the right choice whenever and where-ever you need precise measurements of effect surfaces.

For more information about the ColorEye 640 & 740 spectrophotometers, please contact your nearest GretagMacbeth representative.



United States: 617 Little Britain Road, New Windsor, NY 12553-6148, Tel: 800 622 2384, 845 565 7660 (Outside USA and Canada), Fax: 845 561 0267
Switzerland: Althardstrasse 70, CH-8105 Regensdorf, Tel: +41 1 842 24 00, Fax: +41 1 842 22 22
United Kingdom: Greenway House, Abbots Park, Preston Brook, Cheshire WA7 3GH, Tel: +44 1928 280050, Fax: +44 1928 280080
Germany: Siemenstrasse 12b, D-63263 Neu Isenburg, Tel: +49 61 0279 570, Fax: +49 61 0279 5757
Hong Kong: 2/F, 18 Prat Avenue, Tsimshatsui, Kowloon, Tel: +852 2368 7738, Fax: +852 2368 6717
Italy: Via Braille, 69-69/A, 59100 Prato, Tel: +39 0574 527755, Fax: +39 0574 527671

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ColorEye® 740 Spectrophotometer Specifications

Repeatability (white tile)	0.10 RMS ΔE
Interinstrument Agreement	0.25 Avg. ΔE average on BCRA tiles compared to standard values
Illumination	360 nm to 750 nm pulsed xenon D65
Measurement Time	0.15 seconds
Spectral Range	360 nm to 750 nm
Wavelength Interval	10 nm
Band Pass	10 nm
Aperture	
Measured	10 mm
Illuminated	14 mm
Physical	16 mm
Optical Configurations	Model# Aspecular Angle
	740 15° 45° 75° 110°
	741* 20° 45° 75° 110°
	742 25° 45° 75° 110°
	* Denotes most widely used specular configuration
Dimensions	11.5" high, 7.5" wide,
	(29.2 cm, 19.1 cm, 35.6 cm)
Weight	15 lbs. (6.8 kg)
Temperature (operating)	32°F to 95°F (0°C to 35°C)
Relative Humidity	10% to 90% (non-condensing)
Electrical Requirements	90-240 VAC / 50 - 60 Hz

ColorEye® 640 Spectrophotometer Specifications

Repeatability (white tile)	0.10 RMS ΔE
Interinstrument Agreement	0.25 Avg. ΔE average on BCRA tiles compared to standard values
Illumination	Pulsed xenon D65
Measurement Time	0.15 seconds
Spectral Range	360 nm to 750 nm
Wavelength Interval	10 nm
Band Pass	10 nm
Aperture	
Measured	10 mm
Illuminated	14 mm
Physical	16 mm
Optical Configurations	Model# Aspecular Angle
	640 15° 45° 75° 110°
	641* 20° 45° 75° 110°
	642 25° 45° 75° 110°
	* Denotes most widely used specular configuration
Dimensions	12.34" high, 6.0" wide, 11.95" deep (31.34 cm, 15.24 cm, 30.35 cm)
Weight	5.25 lbs. (2.38 kg)
Temperature (operating)	32°F to 95°F (0°C to 32°C)
Relative Humidity	10% to 90% (non-condensing)
Electrical Requirements	90-240 VAC / 50 - 60 Hz

† Average ΔE of BCRA ceramic standards relative to GretagMacbeth standardized values under lab conditions.
 Specifications subject to change without notice.