

spectrophotometers

The reliable digital workflow starts here.

For nearly a century, the GretagMacbeth Color i brand has been the benchmark for accurate, reliable color measurement.

Whether you're establishing color references or complying with established color programs, reliability is a given. The Color i brand offers the most versatility for measuring the widest variety of samples. And our innovative service and support make ownership hassle-free and cost effective throughout the globe.

Selecting the Measurement Tool That's Right for You

Color i7: Next generation reference instrument has the precision and accuracy of the ColorEye 7000A with added automation and "smart" features to enable a reliable digital workflow including:

embedded NetProfiler for self-diagnostics and auto-configure. Perfect for error-free measurement at all opacity levels on plastic, coated and liquid samples.

ColorEye 7000A: It's the ultimate precision instrument for laboratory and reference grade measurements. Great for all levels of opacity on plastic, coated and even liquid samples.

Color i5: It's a real workhorse for accurate, high volume production measurements. It offers the most flexibility in a benchtop for measuring the widest variety of sample sizes, shapes, textures and opacity levels.

ColorEye XTH: Lightweight, yet powerful, this little portable offers accurate flex-

ible measurements, especially on contoured and textured opaque parts. Take it from production floor to the field.

ColorEye 2180: This compact benchtop is good news for budget conscious labs and production facilities. Whether you need one or several instruments, this is the perfect solution for accurate, economical reflectance measurements.

The complete Color i line is fully compatible, so all your measurements will agree regardless of model. Adding a Color i to an existing network of spectrophotometers is easy and accurate even with different makes and models. See NetProfiler® (back cover).

Delivering uncompromising accuracy with speed and flexibility to meet demanding deadlines.

Which Color i spectrophotometer is right for you?

Key Features

Repeatability RMS ΔE CIELab (White)*
Interinstrument Agreement Avg. ΔE CIELab*
Illumination
Spectral Range
Wavelength Interval
Photometric Range
Photometric Resolution
Measurement Time (seconds)
Reflectance Apertures

Transmittance Apertures

Direct Transmittance Apertures Large
Optical Configuration

Dimensions

Weight
Temperature
Relative Humidity
Electrical Requirements
Battery

Interface
NetProfiler
Special Features

Height
Width
Depth

*Tested on BCRA tiles at 22° C.

Specifications subject to change without notice.

Color i7 Compact Benchtop



- Premium reference grade
- Self diagnostics and setup
- Embedded NetProfiler
- Reflectance and transmittance
- Variable areas of view

0.001
0.08
Pulsed Xenon
360 nm to 750 nm
10 nm
0% - 200%
0.01%
2.5
25mm
17mm
10mm
6mm
25mm
17mm
10mm
6mm
25mm
Tri-beam diffuse 8°, 6" sphere
2D CCD array/holographic grating
25 cm (10 inches)
23 cm (9 inches)
47 cm (18 inches)
12 kg
10°C to 35°C
20 to 80%, non-condensing
100-240 VAC/50-60Hz
N/A

USB/RS-232
Enabled
Simultaneous SCE/SCI. Automated UV and lens control, digital signature, embedded NetProfiler, Horizontal or vertical measurement orientation

Color Eye 7000A Benchtop



- Premium reference grade
- Laboratory/high precision measurement
- Reflectance and transmittance
- Variable areas of view

0.001
0.08
Pulsed Xenon
360 nm – 750 nm
10 nm
0% - 200%
0.01%
1
1" (2.54 cm)
0.06" (.15cm)
0.3" x 0.4" (0.8 cm x 1.0 cm)
0.12" x 0.31" (0.3 cm x 0.8 cm)

22mm
Dual beam diffuse 8°, 6" sphere
2 spectral analyzers
38.7 cm (15.25 inches)
27.9 cm (11 inches)
71.1 cm (28 inches)
15°C - 32° C
20% - 80%
117 VAC/50-60 Hz, 220VAC/50-60Hz
N/A

RS-232
Enabled

Color i5 Compact Benchtop



- High volume production measurement
- Reflectance and transmittance
- Variable areas of view

0.003
0.15
Pulsed Xenon
360 nm – 750 nm
10 nm
0% - 200%
0.01%
2.5
25 mm
10 mm
6 mm

22 mm
10 mm
06 mm
22 mm
Tri-beam diffuse 8°, 6" sphere
2D CCD array/holographic grating
25 cm
23 cm
47 cm
12 kg
10 - 35° C
20% - 80%
100-240 VAC 50-60 Hz
N/A

USB/RS-232
Enabled
Simultaneous SCE/SCI.
Automated UV and lens control

Color Eye XTH Portable*



- High volume production measurement
- Hand-held

0.10
0.25
Pulsed Xenon
360 nm – 750 nm
10 nm
0%-200%, 0%-120% (selectable)
0.01%
1

10 mm
5mm

Diffuse 8°, 38 mm sphere
2D CCD array/holographic grating
19.5 cm
8 cm
7 cm
0.81 kg
10 - 35° C
20% - 80%
117 VAC/50-60 Hz, 230 VAC/50-60Hz
Nickel Metal-Hydride
Charge time <3 hrs. (idle)/<6hrs. (in use)
Internal/external charging
RS-232
Enabled
Simultaneous SCE/SCI. Stores up to 400 records. Available in French, Italian, English, German, Spanish, Japanese. Includes all popular color spaces and illuminants as well as gloss.
*Also available in an ultra compact benchtop. (requires separate color control software)

Color Eye 2180 Compact Benchtop



- Economically priced for volume purchase

0.15
0.25
Pulsed Xenon
360 nm – 750 nm
10 nm
0%-180%
0.01%

14 mm circular

Dual beam diffuse 8°
23.8 cm
18.1 cm
14.75 cm
6.8 kg
15 - 32° C
20% - 80%
117 VAC/50-60 Hz, 220 VAC/50-60Hz

Also available with UV adjusted/excluded feature

