



## Color Spectrophotometers

Color i solutions for accurate independent or networked color measurement



**gretagmacbeth**  
YOUR COLOR. PRECISELY.

# 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  $\Delta E$  CIELab (White)\*  
Interinstrument Agreement Avg.  $\Delta E$  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

0.03  
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

## Service and Support

### *Engineered for performance... serviceable for convenience.*

All instruments are engineered for data compatibility. That means you get consistent measurements with other ColorEye/Color i brand spectrophotometers. All equipment is certified and traceable to NIST (National Institute of Standards) and comes with a certificate of performance.

But it doesn't end there... our global support and innovative web services keep your equipment certified and operating at peak performance throughout your enterprise and extended enterprise 24/7. With factory trained service organizations in over 35 countries, we ensure maximum uptime.

### *Ensure enterprise-wide instrument performance 24/7.*

Maintaining uptime is fast and simple with award-winning NetProfiler Internet-based application for remotely monitoring, calibrating, adjusting, and certifying your network of spectrophotometers. Plus, all adjustments can be made by you instead of sending your instrument to a service center. So you won't incur downtime. This breakthrough technology synchronizes the performance of different instrument makes and models. NetProfiler eliminates the single-most prevalent problem in color measurement...data inconsistency—the effect of differing optical systems or environmental conditions on sensitive optics.

Call today for the Color i spectrophotometer that's right for you. 1-877-450-6912.



"GretagMacbeth's leading edge equipment design allows more accurate and precise data flow between global and remote offices."

*Global color executive for a leading discount retail chain.*



**INNOVATIONSPREIS  
DER DEUTSCHEN DRUCKINDUSTRIE  
2005**

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