Integrated Color Management Systems™

Color Instrumentation and Software Solutions

...for precise color consistency.
Every time, everywhere.

GretagMacbeth™
The Business of Color Perfection
Color is increasingly critical to the success of your business. Companies worldwide need to communicate color precisely and consistently, in real time, to everyone in the supply chain.

The ICMS approach to color management.

GretagMacbeth Integrated Color Management Systems™ (ICMS) offer you a suite of tools — including instrumentation, software, lighting, Munsell color standards, training, profiling and data management — for consistent color control throughout your supply chain.

These elements can be integrated into a total system for any industry’s color supply chain. From merchandisers and industrial designers to manufacturers and specifiers, pigment and raw material suppliers to extruders, injection molders, finishers and assemblers, our systems provide unmatched capabilities for keeping pace with today’s demanding color management requirements. Scalability allows the same color standards, in different system configurations, to be economically used by everyone — from the smallest injection molders to the largest OEMs. You can easily custom-tailor a scalable solution to fit your business and your budget.

All supply chain partners can speak the same color language.

With specifiers, color formulators, and injection molders in so many different locations, you need to connect your supply chain from end-to-end — so everyone is speaking the same color language.

With ICMS and end-to-end connectivity, you not only measure and simulate color accurately — you also communicate it digitally to your supply chain partners in real time. So every vendor in the supply chain is working from the same color data. This means better color matching, improved quality, fewer rejects, and reduced cycle time, providing you the speed you need to bring products to market faster than ever before. And because of the easy-to-use interfaces in all our products, the time to train is reduced, so no time is wasted getting the products to market.
Optimizing formulation — from the lab through production.

Our sophisticated ColorEye® spectrophotometers measure color samples or swatches to create a digital standard, which is stored in ProPalette software for use in the color formulation process. The color formulation software takes the digital standard, and through a process of complex mathematical algorithms, derives the correct formula.

With the speed and power of today’s PCs, the system can create laboratory formulations much faster than doing it by hand. Searching all possible combinations, the computer calculates — in seconds — the best formulation for matching the target color. Substrate, opacity, light stability, metamerism, and cost of colorants are taken into account to produce the optimum formula at the lowest possible cost. There’s less pigment loading and more profits.

Rapid determination of the formula results in a quicker match and faster approval, increasing your chances of getting the order. The software stores a database of both colorants and formulas, so that laboratory formulas can quickly be scaled up and color-corrected to generate production recipes that meet customer specifications.

ICMS: your competitive edge in a fast-paced world.

As your supply chain grows — whether remotely within a state or in another country — and becomes more globalized, the more you need ICMS for maintaining and controlling these multiple resources. With ICMS, you get an integrated solution that can ensure accurate, consistent color control while communicating critical color data at critical speed. Your business gains a competitive edge by being able to meet, better and faster, the color requirements of both your supply chain partners as well as the end customer.
Leading-edge GretagMacbeth hardware and software help you maximize color consistency at every step in your operations:

- **Incoming materials** – GretagMacbeth spectrophotometers such as the ColorEye® 7000A and ColorEye 2180UV permit on-the-spot inspection of incoming resins, pigments, colorants, fillers, lubricants, stabilizers, and plasticizers. ProPalette® Optiview® software for accurate pass/fail decisions minimizes variability of raw materials allowing JIT manufacturing processes to run smoothly.

- **In-process QC** – By using the handheld ColorEye XTH to measure color during processing, you can improve and speed up process control. Color can be adjusted faster to reduce rejects and waste.

- **Outgoing QC** – Inspection with the ColorEye line of spectrophotometers, ProPalette Optiview software, and the SpectraLight® or Judge® II lighting systems of finished pieces confirms that all products are manufactured to acceptable color tolerances prior to shipment, ensuring customer satisfaction.

- **Statistical Process Control/Statistical Quality Control** – Our ProPalette software stores archival color data for statistical process and quality control that can help you implement process improvements to maximize color consistency.

Our patented NetProfiler™ system enables you to remotely test, measure and profile your instruments over the Internet. By comparing your instrument to a digital Web-based standards library, or your own existing library, NetProfiler ensures that your instruments are generating correlated data for all materials — opaque, translucent, transparent, pearlescent, metallic, fluorescent, and optically brightened, thus improving the quality of your measurements on a regular basis.

To maintain visual correlation with instrumental measurements, GretagMacbeth light booths provide a variety of standard viewing illuminations including daylight, fluorescent, and incandescent. ColorEye XTH 3-D targeting technology provides precision color measurement on the most challenging sizes, shapes, and surfaces — curved and flat — for samples as small as 5 mm. This integration of lighting, software and instrumentation all along the supply chain ensures that every part, every component of the color product, no matter where it comes from, no matter how small, is perfectly matched to specified standards.
When you’re in the business of color perfection, continually staying ahead of the technology is mission critical. Our technological breakthroughs have advanced the science of color to new levels, setting the standards...and surpassing them. As we look to the future, that tradition continues, helping you bring the power of color to your business.