

# Elcometer 6090 X-RiteColor® Master Software



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## At a glance

- Five versions available depending on functionality required.
- User friendly software programme.

## Elcometer 6090 X-RiteColor® Master Software

With X-RiteColor® Master Software, you have the power to measure, analyse, control and communicate colour data through one sophisticated, yet simple software program. X-RiteColor® Master helps you:

- Reduce cycle time
- Increase efficiency of colour data communication
- Minimise colour waste
- Create multiple formulation matches
- Get control of colour faster

## Instrument Compatibility

X-RiteColor® Master is fully compatible with X-Rite's powerful line of 0/45, sphere, multi-angle and non-contact instruments.

With the release of the new Premier 8000 Series Benchtop Spectrophotometer, a new dimension is now at hand, providing complete colour quality control solutions that deliver fast and accurate colour measurement and a carefully designed, customer-driven user interface.

## Appearance

Appearance measurement is a way of putting numbers to characteristics of surfaces that we see. The ability to independently quantify appearance allows for products to be similar whenever and wherever the product is manufactured or coated.

Elcometer provide a comprehensive range of hand held instruments to measure most of the individual characteristics that generate the overall appearance of a material or coating.

## Gloss

The ability of a surface to reflect light without scattering is known as Gloss. Gloss is measured by directing a constant power light beam at an angle to the test surface and then by monitoring the amount of reflected light. Different surfaces require different reflective angles. Elcometer Glossmeters cover the range necessary to measure almost any surface from high gloss to matt, from large to small surfaces - flat or curved

## Haze

Some materials appear to have considerable difference in gloss yet give comparable readings when measured with a glossmeter at one angle. These materials can be separated by measuring at a second angle and comparing the difference of the two readings. Haze is defined by ASTM D4039 as the difference between gloss at 60° and the gloss at 20°.

| KEY FEATURES   |
|--|
| <b>X-RiteColor® Master Software gives you ultimate control over the information you need with:</b>   |
| <b>Customisable Views:</b> Use the programmable toolbar to tailor the application to your business.  |
| <b>Colour-Coded Tag Plot:</b> Colour code your samples by operator, shift, company or any other tag that you specify. View multiple samples and identify process differences by the criteria you use.  |
| <b>Batch Processing Tools:</b> Select and maintain groups of standards and eliminate inefficient process repetition with these robust tools.   |
| <b>Automated Colorant Calibration:</b> Create an accurate database and enter new colorant data through a simple, efficient batch process.  |
| <b>Custom Calculations:</b> Customize your colourmetric calculations and organise them according to your specifications.   |
| <b>One Page Formula View:</b> View multiple formulas on one screen and sort them according to your requirements.   |
| <b>Manual Entry of L*a*b*:</b> Create a standard or sample by simply entering L*a*b* values for a specific illuminant / observer. Synthetically generate spectral curves and process data against them for accuracy and control.   |
| <b>“One Click” Queued Formulation:</b> Queue multiple standards and formulate them automatically with a single mouse click, Page through individual results or an entire queue with ease.  |
| <b>Communicate Colour Data: X-RiteColor® Master allows you to communicate your colour data in three ways:</b>  |
| <p><b>X-RiteColor Master WEB Edition</b></p> <p>Discover the convenience of server-based computing! With Web Edition, X-RiteColor Master can be deployed, managed and supported on your Windows 2000 server. Using Microsoft® Internet Explorer and Microsoft Terminal Services, you can access the server from any location using your Windows-based computer. For colour management needs in multiple locations or plants, X-RiteColor Master Web Edition provides a high-speed, efficient solution.</p> |
| <p><b>Local Area Network (LAN)</b></p> <p>X-RiteColor Master is networkable, allowing multiple users to access a single database through a Local Area Network (LAN).</p>   |
| <p><b>ColorMail®</b></p> <p>Simply “drag and drop” colour data into an e-mail and send! Recipients can “drag and drop” the information onto their applications and view the same data.</p>   |

## Shade

This is the measurement of darkness or lightness of a surface. Only shading is measured, irrespective of colour, and is referred to as ‘whiteness’. The test surface is illuminated at an angle of 45° and the intensity of scattered light at the perpendicular (0°), is measured on a grey scale where black is 0% and white is 100%.

## Opacity

This is the degree to which a coating will obscure the surface to which it has been applied. Opacity is measured in a similar way to shade, however opacity, or hiding power, as defined by ISO 2814 involves measuring whiteness of a known film of test material on both a black (less than 5%) and a white (greater than 75%, less than 85%) substrate. A full range of opacity test charts are available – See Leneta Test Charts for further information.

## Colour

The ability of a material to absorb certain wavelengths of light and reflect others. For example a black material reflects no light across the complete colour spectrum, whereas a pure white material reflects all of the light. All other colours reflect light at different points of the spectrum. Colour is quantified by the material’s Red, Green and Blue (RGB) values.

| Model             | Description                         | Part Number  |
|-------------------|-------------------------------------|--------------|
| Elcometer 6090/11 | X-RiteColor® Master Formulation I   | K0006090M011 |
| Elcometer 6090/12 | X-RiteColor® Master Formulation II  | K0006090M012 |
| Elcometer 6090/13 | X-RiteColor® Master Formulation III | K0006090M013 |
| Elcometer 6090/1  | X-RiteColor® Master QA I            | K0006090M001 |
| Elcometer 6090/2  | X-RiteColor® Master QA II           | K0006090M002 |

| X-RiteColor® Master  | Formulation III | Formulation II | Formulation I | QA II    | QA I     |
|--|-----------------|----------------|---------------|----------|----------|
| <b>Communications</b>  |                 |                |               |          |          |
| Network (LAN) Version  | •               | •              | •             | •        | •        |
| Server-Based (Internet) Computing  | •               |                |               | •        |          |
| ColorMail® (e-mail)  | •               | •              | •             | •        | •        |
| <b>Multiple Illuminants</b>  |                 |                |               |          |          |
| A, C, D50, D65, D75, F2, F7, F11, F12  | •               | •              | •             | •        | •        |
| <b>Data Views</b>  |                 |                |               |          |          |
| Multiple View Capability   | •               | •              |               | •        |          |
| Simple, L*a*b*, indices (L*a*b* data, general and textile), spectral, spectral data, status density, trend, notes & tags, and visual color | •               | •              | •             | •        | •        |
| FMC2   | •               | •              |               | •        |          |
| Formula  | •               | •              | •             | •        |          |
| Verbal Colour  | •               | •              |               | •        |          |
| <b>Functions</b>   |                 |                |               |          |          |
| Colour-coded Tag Plot  | •               | •              |               | •        |          |
| Dot Area / Contrast Ratio Calculation  | •               | •              |               | •        |          |
| Multiple Formulation Methods   | •               | •              | •             |          |          |
| Quick Correct  | •               | •              | •             |          |          |
| Assign and Create Tags   | •               | •              |               | •        |          |
| Filters  | •               | •              |               | •        |          |
| Multiple Tolerances for Standards  | •               | •              |               | •        |          |
| User Defined Controls  | •               | •              |               | •        |          |
| Projects and Jobs  | •               | •              |               | •        |          |
| Alternate Standard Creation  | •               | •              |               | •        |          |
| Delete Sample Set  | •               | •              | •             | •        | •        |
| Display Options  | •               | •              |               | •        |          |
| Customise Toolbar  | •               | •              | •             | •        | •        |
| View Sets  | •               | •              |               | •        |          |
| 5 and 3 Angle QA Databases   | •               | •              |               | •        |          |
| Create / Modify Calibration Sets   | •               |                |               |          |          |
| ColorDesigner® emulation   | •               |                |               |          |          |
| Vue-Rite® (on-screen colour)   | •               | •              | •             | •        | •        |
| <b>Reports</b>   |                 |                |               |          |          |
| General  | •               | •              | •             | •        | •        |
| Conformance and custom   | •               | •              |               | •        |          |
| Sample and Sample Set  | •               | •              | •             | •        | •        |
| <b>Languages</b>   |                 |                |               |          |          |
| English, French, Italian, German, Spanish and Chinese  | •               | •              | •             | •        | •        |
| <b>Training</b>  | •               | Optional       | Optional      | Optional | Optional |

## Related products



Elcometer 6075/1

The SP60 is an affordable sphere colour spectrophotometer, designed to give fast, precise and accurate colour measurement information on materials ranging from paper and paint to plastics and textiles. Supplied with an 8mm fixed aperture.



Elcometer 6075/2

The SP62 is an affordable sphere colour spectrophotometer, designed to give fast, precise and accurate colour measurement information on materials ranging from paper and paint to plastics and textiles and is supplied with 4mm, 8mm or 16mm fixed apertures



Elcometer 6075/3

The most popular product suitable for most coating applications, the SP64 colour spectrophotometer is fast, accurate and ideal for measuring a wide range of materials. Supplied with a switchable aperture size, the user can select the test area of 4mm or 8mm or it can be supplied with an optional fixed 16mm aperture.



Elcometer 6060

The Elcometer 6060 is a versatile 0/45 spectrophotometer, with interchangeable apertures for 4mm, 7mm or 15mm measurement areas. A wrist strap and tactile side grips make the instrument easy to hold. Read-outs are large and easy to see. A rechargeable battery pack allows extended operation of the instrument.



Elcometer 6060/4

The Elcometer 6060/4 has all of the functionality of the Elcometer 6060 but with tighter inter-instrument agreement and JOB capability. The JOB function is a programmed sequence of specific steps to assist the operator in the colour measurement process. Up to six lines of specific instructions per measurement routine can be downloaded from X-Rite software and displayed on the LCD screen.

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