

X-Rite MA94™

Portable Multi-Angle Spectrophotometer

Color can make or break a product. Metallics, pearlescents, and other complex special effect finishes deliver limitless possibilities for enhancing product appeal. And limitless challenges as well. Duplicating complex colors from part to part is no easy task.

X-Rite has answers. Our MA94 spectrophotometer is an intelligent, hand-held tool with the power to provide reliable data on coatings for a wide range of industries.

Through a series of pressure sensors, the MA94 is able to consistently produce accurate readings on flexible and curved surfaces.

We've made it easy to use, too. There's a large color LCD screen for reading data or measurement directions, and options for USB or Bluetooth wireless data communication. A more powerful version of our MA68II device, MA94 operation is enhanced by exclusive advantages, such as X-ColorQC® software that enhances process recording, reporting, and control and a JOBs software mode that allows text or visual measurement direction to ensure consistency. All in a few keystrokes.

So now, the only limit to working with special effect finishes is your imagination.







X-Rite MA94 **Features and Advantages**

Accurate, repeatable sample positioning. Innovative user selectable pressure sensors ensure consistent sample interface on flexible or curved surfaces.

Portable, lightweight. The unit weighs a little more than a kilogram, making it ideally suited for long-term use without discomfort.

Rugged design. Engineered to withstand demanding production environments. Supported by an unprecedented two-year warranty.

Bundled with X-Rite's exclusive X-Color QC™ measurement and analysis software.

Quick reads. Consistent measurements are achieved in 2 seconds.

Universal functionality. Universal menu icons simplify usage while eliminating language barrier.

Program measurement position and sequence. Through software JOBs mode, workers can be given text and/or visual measurement directions to ensure consistency of measurement from shift to shift.

Increased lamp life, reduced battery consumption. Improved illumination efficiency, results in reduced power consumption from the lamp, allowing up to 750 reads from a fully charged battery.

Compatibility with previous X-Rite instruments. Maintaining similar optical configurations from previous generations of X-Rite instruments provides compatibility with existing data.

International standards ready. Meets DIN and ASTM standards: ASTM D 2244, E 308, E 1164, E 2194; DIN 5033, 6174, 6175-2; ISO 7724; SAE J1545.

X-Rite MA94 Specifications

Measuring Geometrics

Illumination Aspecular Viewing

15°, 25°, 45°, 75°, 110°

±0.15°

Angular Accuracy

Fiber Optic pick up coupled with DRS technology

Approx. 12mm (.5 inch) Measurement Area Gas filled tungsten lamp **Light Source** Lamp Life 750,000 measurements typical

400nm - 700nm Spectral Range

Spectral Interval 10nm (31 measured points)

0 - 400% Measurement Range

Colorimetric Illuminants A, C, D50, D65, F2, F7, F11 & F12

Colorimetric Standard Observers

L*a*b*. L*C*h°. ΔΕ*: ΔΕCMC: Colorimetric Scales

Effect Parameters Flop Index

Measurement Time Approx. 2 seconds

Reproducibility 0.18 ΔE* avg on reference Series II (Inter-instrument agreement) BCRA tile set

Repeatability 0.03 avg. ∆E* on white cal plaque (20 measurements at 5 sec intervals)

Power Supply Rechargeable Lithium Ion

battery pack 7.4vDĆ @ 2400mAh

ΔE DIN6175, ΔE₂₀₀₀

AC Adapter 12vDC, 2.5 amps

Up to 1500 measurements, Measurements per charge Li ion dual battery packs

Measurement storage 250 Standards 1000 Samples

Data interface USB 2.0

> Bluetooth wireless (in compliant countries only)

50F to 104F (10C to 40C) **Operating Temperature Range** 85% Relative Humidity max

(non-condensing) Storage Temperature Range

Dimensions

Weight

-4F to 122F (-20C to 50C) 3.4 x 4.5x 10.6 inches

(8,7cm x 11,4cm x 26,9cm)

2.5 lbs 1.13 kgs

Standards

ASTM DIN

ISO SAF D 2244, E 308, E 1164, E 2194 5033, 6174, 6175-2

7724 11545

X-RITE WORLD HEADQUARTERS

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