

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 MA96 spectrophotometer is an intelligent, hand-held tool with the power to provide precise, reliable data on special effect coatings, including data from a -15 degree angle.

Through a series of pressure sensors, the MA96 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 MA94 and MA68II devices, MA96 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 MA96 Features and Advantages

**-15 degree aspecular viewing angle.** This angle is on the oppositeside of specular to more fully characterize interference pigments.

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<sup>™</sup> 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 WORLD HEADQUARTERS

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## **X-Rite MA96 Specifications**

Measuring Geometrics Illumination Aspecular Viewing

Angular Accuracy

Measurement Area Light Source Lamp Life Spectral Range Spectral Interval Measurement Range Colorimetric Illuminants Colorimetric Standard Observers Colorimetric Scales

Effect Parameters Measurement Time Reproducibility (Inter-instrument agreement)

Repeatability

Power Supply

AC Adapter Measurements per charge

Measurement storage

Data interface

**Operating Temperature Range** 

Storage Temperature Range Dimensions

Weight

## Standards

ASTM DIN ISO SAF

45° -15°, 15°, 25°, 45°, 75°, 110°  $+0.15^{\circ}$ Fiber Optic pick up coupled with DRS technology Approx. 12mm (.5 inch) Gas filled tungsten lamp 750,000 measurements typical 400nm – 700nm 10nm (31 measured points) 0 - 400% A, C, D50, D65, F2, F7, F11 & F12 2° & 10° L\*a\*b\*, L\*C\*h°, ΔΕ\*; ΔΕCMC; ΔE DIN6175, ΔE<sub>2000</sub> Flop Index Approx. 2 seconds

0.18  $\Delta E^*$  avg on reference Series II BCRA tile set

0.03 avg.  $\Delta E^*$  on white cal plaque (20 measurements at 5 sec intervals)

Rechargeable Lithium Ion battery pack 7.4vDC @ 2400mAh

12vDC, 2.5 amps

Up to 1500 measurements, Li ion dual battery packs

250 Standards 1000 Samples

USB 2.0 Bluetooth wireless

50F to 104F (10C to 40C) 85% Relative Humidity max (non-condensing)

-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

D 2244, E 308, E 1164, E 2194 5033, 6174, 6175-2 7724 J1545

