



MA-5 QC

Multi-Angle
Spectrophotometer



A New Way to Conquer Metallic Colors in Cosmetics

The MA-5 QC is a cost-effective multi-angle color measurement device designed to ensure color harmony on metallic colors and shimmer effects found in cosmetics. Featuring strategically placed optics at the tip, it is 60% faster, 50% lighter, and 40% more compact than any other five-angle device on the market. It allows operators to easily position MA-5 QC with one hand and capture more measurements per hour, eliminating the operator error typically associated with current multi-angle instruments.

While metallic, pearlescent, and other complex colors are beautiful and help cosmetic products stand out on the shelf, they introduce new color measurement challenges in the manufacturing process. Built with quality control managers in mind, the MA-5 QC can identify color defects early in the manufacturing process and avoid unnecessary rework. Ultimately, catching color errors early on and speeding up the time to market will quickly show a positive return on investment for the MA-5 QC.

Measure Color with Confidence

- Ensures the instrument is always correctly positioned on the sample with indicator lights.
- Captures fast measurements in less than 2.5 seconds.
- Delivers greater than 95% repeatability within 0.16 dE when tested on 196 samples that included solid, metallic, and pearlescent effects.
- Collects multiple data points quickly when programmed for automated jobs.
- Keeps dirt out of the device with an automatic optics shutter.

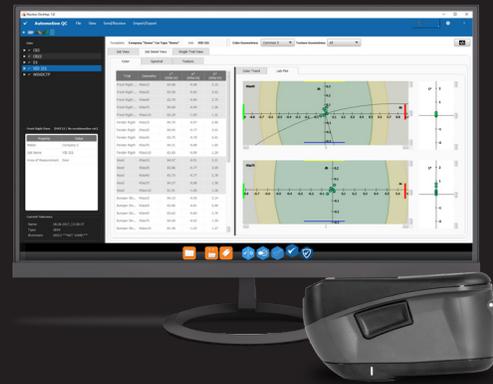
Analyze Data with Ease

- Saves time by providing fast output of data with one-click reporting and an intuitive touch screen interface.
- Gauges whether temperature of the sample is affecting color data with the first to market on-screen temperature preview.
- Provides green and red pass/fail tolerance lights for fail-proof analysis.
- Understands legacy data for compatibility with MA68II and MA94.
- Integrates with existing digital standards for easy migration.
- Includes a docking station to conveniently connect with a PC and automatically charge the device.

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A Complete Solution for Quality Control on Metallic Cosmetics

X-Rite's EFX QC software complements the MA-5 QC to digitally communicate tolerances and measurement procedures and enable real-time monitoring of color harmony across the supply chain. It also supports advanced features like job based searchable databases.



Specifications

Spectro Measurement	Detection 45° Illumination 15°, 25°, 45°, 75°, 110°
Positioning	Three pressure sensors
Measurement Spot Size	12 mm
Measurement Time	2.5 seconds
Short Term Repeatability on White	0.02 ΔE^*
Reproducibility on BCRA Tiles	All BCRA tiles: avg. $\Delta E^* < 0.1$
Inter-Instrument Agreement	Avg. 0.18 ΔE^* on BCRA Tile Set
Wavelength Range	400 – 700 nm
Wavelength Resolution	10 nm

Measurement Range	0 to 600% reflectance
Operating Temperature	10 – 40°C, rel humidity 85% at 35°C non-condensing
Battery Lifetime	2,000 measurements
Memory	500 jobs
Weight	0.6 kgs (1.4 lbs)
Size	L 180mm x W 70 mm x H 95mm (L 7.1 in x W 2.7 in x H 3.7 in)
Calibration	internal, external white
Calibration Interval	21 days
Connectivity	USB
Software compatibility modes	Native MA-5 QC and MA94 emulation mode

Service Support & Warranty

X-Rite's color analysis and measurement solutions are engineered and manufactured to the most rigorous quality standards. These standards are backed by comprehensive global service, superior phone and web support, and preventative maintenance options to optimize your long-term investment. We have developed service support and warranty plans that are unique to your organization's specific products and needs.

Learn more by reviewing our service offerings on our website at: www.xrite.com/page/service-warranty.

Still unsure of what you need? Contact us directly at: servicesupport@xrite.com