x-rite PANTONE®

The MA-T12 combines color imaging and 12 angles of measurement enabling the most complete characterization of today's extreme effect materials.



MA-T12

Portable Multi-Angle Spectrophotometer



Overview

Color is a decisive buying factor when it comes to the purchase of new products – from cars, to consumer electronics and household appliances. In today's competitive marketplace, manufacturers increasingly use extreme effect finishes to differentiate themselves. As a result, measurement of color alone is no longer sufficient to completely characterize these materials or to ensure consistency across adjacent parts in distributed supply chains. The new MA-T12, coupled with AutoQC software, is the ideal solution for quick and accurate evaluation and verification of color, sparkle, and coarseness characteristics of effect finishes.

Key Benefits

The MA-T12 is the most advanced multi-angle spectrophotometer available today. The RGB color camera coupled with 12 angles of measurement makes this instrument the preferred choice for establishing the strictest color standards. The new ergonomic design includes a centrally located aperture and positioning pins to ensure stable measurement. The MA-T12's intuitive interface offers modern touch screen navigation and live camera measurement previews, which makes it easy to learn and simple to use.

AutoQC software, included with the MA-T12, is a cloud-based solution that simplifies the process of defining, communicating, and ensuring conformance with standards and measurement procedures for color, sparkle, and coarseness across distributed supply chains. AutoQC's new visual tools, including performance trend charts and stored images of specific measurements, enable real-time performance monitoring and provide actionable insights that speed up the process of troubleshooting out-of-tolerance product.

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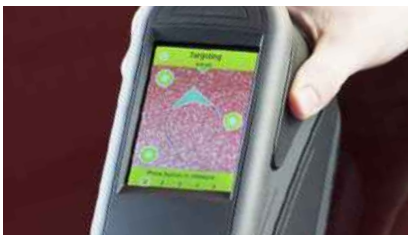
For more information regarding this product, visit **www.xrite.com/ma-t12**



Live preview ensures accurate targeting



Intuitive touch screen makes measurement easy



Real-time monitoring of color harmony for adjacent parts with AutoQC

Highlights

- Precise readings of colored sparkle and coarseness achieve repeatability and reproducibility performance that is twice that of other devices on the market, minimizing waste and re-work across the production process
- Fully characterize and measure effect finishes across a variety of applications, from automotive paint to plastics and cosmetics through 12 angles of measurement
- Measurement results that more closely approximate the way the eye perceives color to streamline the approval process
- Intuitive interface reduces the learning curve and increases measurement efficiency
- Automatic internal calibration reduces the risk of inaccurate measurements due to insufficient device calibration, and reduces the need for external calibration to once per month
- Backwards compatibility with X-Rite MA68, MA94, MA96, and MA98 ensures a smooth transition with no loss of legacy data
- The ability to set and digitally communicate global tolerances and measurement procedures for color, sparkle, and coarseness across the supply chain improves ongoing conformance
- Real-time monitoring of color harmony across the supply chain enables quick adjustments to improve operating efficiencies
- New visual tools enable quick analysis and resolution for non-compliant product

Service Support & Warranty

Drawing on our extensive color expertise, X-Rite offers the right level of services on-site, online or on the phone, to support and nurture your business. For additional protection beyond the one-year warranty, take advantage of our extended warranty program. With global full service contracts, you can ensure your devices are well maintained through X-Rite's Annual Five Point Checkup, uniquely developed to keep devices performing to original specifications. With twelve global service centers, we make it easy to reach us. For more information about extended support options, visit **www.xrite.com/extended-warranties-services**

Specifications

	MA-T12
Measurement Geometry	12 measurement angles (6 illumination sources, 2 pick-ups)
Inter-Instrument Agreement	0.18 ΔE2000 avg. on BCRA
Illumination Colors	Polychromatic white LED with blue enhancement
Illumination Spot Size	9mm x 12mm (.40in x .50in)
Illuminants	A, C, D50, D65, F2, F7, F11 & F1
Color Differences	L*a*b*, L*C*h°, ΔE*; ΔECMC; ΔE DIN6175, ΔE2000
Sparkle Measurement	Sparkle Grade, Color Sparkle Parameter, Illumination 15as-15, 15as15, 15as-30, 15as45,15as45,15as80, 15d Diffuse Coarseness
Sparkle Repeatability	0.12% (mean error on median %)
Coarseness Repeatability	0.09% (mean error on median %)
Sparkle Reproducibility	1.9 %(mean error on median %)
Coarseness Reproducibility	1.4% (mean error on median %)
Calibration Interval	30 days

Full list of specifications available at **www.xrite.com/ma-t12**

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