

MA68II vs. MA94/96/98



Features	MA68II	MA94	MA96	MA98
JOBS	Patented Job workflow commands with Tags	Job workflow with embedded images and Tags		
Illumination	45° tungsten halogen module	45° tungsten halogen module	45° tungsten halogen module	45° and 15° tungsten halogen modules
Battery life	1,000 measurements, NI metal hydride	Up to 1500 measurements, Li ion dual battery packs		
Inter-instrument agreement	0.18 ΔE^* avg. on BCRA	0.18 ΔE^* avg. on BCRA		
Repeatability	0.10 ΔE^* white ceramic	0.03 avg. ΔE^* white ceramic		
Aspecular angles	5 Aspecular angles	5 Aspecular angles: 15, 25, 45, 75, 110	6 Aspecular angles: -15, 15, 25, 45, 75, 110	6 Aspecular angles (45): -15, 15, 25, 45, 75, 110 2 Aspecular angles (15): -15, 15 Out of plane angles
Pressure switches	2 parallel	3 circumferential sensors with 3 user selectable levels and feedback		
Data compatibility	Installed base	Backward compatibility to MA68II data		
Full color display	4 line B/W	2.7 inch backlit full color LCD (6.85 cm)		
Measurement time	Approx. 2 seconds	Approx. 2 seconds		
Wireless	NA	Bluetooth		
Memory	250 standards, 1000 samples	250 standards, 1000 samples internal		
Software	MetalixQA™	XColorQC™		
Warranty	2 year	2 year		

X-RITE WORLD HEADQUARTERS

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Reasons to upgrade

Jobs: The proprietary JOB functionality offers the advantage of automating routine processes by providing pictorial cues and step-by-step directions for accurate, repeatable production line measurement and collection of data. Using the JOB feature, companies can create “smart containers” that allow personnel to model their processes and workflows sequentially, including images of proper techniques and locations of measurements.

Technique: Advanced design of the instruments ensure that personnel can obtain reliable measurements of flat, flexible and curved test surfaces, which maintains the integrity of a customer’s color control program. The advanced design uses three pressure sensors and three feedback LED’s that inform personnel when they have positioned the instrument correctly for reliable and repeatable measurements.

Backwards Compatibility: Data generated by the MA94, MA96 and MA98 instruments is compatible with records generated using prior generations of X-Rite instruments, ensuring a consistent history of measurements and allowing continued use of existing databases. This allows any of the new family of instruments to be used side by side in an existing population of X-Rite instruments.

Bundled Software: X-ColorQC® software completes the total solution for customers by providing the analysis and quality control information required in today’s manufacturing environment. The X-ColorQC software allows users to view real-time and historical information, draw comparisons, and develop relationships between variables and results -- all offered in easy-to-understand formats such as color identification with tags.

- 15 degree Aspecular Viewing Angle: The MA96 has all the features of the MA94, but takes measurements from six aspecular angles, one of which is the 45AS-15 degree angle on the opposite side of specular to more fully characterize interference pigments.

Power to remain portable: The MA94, MA96 and MA98 instruments all come with commercially available dual Li-ion battery-packs that record up to 1,500 measurements per charge, in addition to operation from an AC adapter. Batteries can be charged using the AC adapter either internally or externally, which greatly reduces the chance that an instrument is “benched” due to low battery power.

Clear viewing: The instruments feature large, backlit, high-resolution color graphic displays for clearly viewing job instructions, measurement data, and results easily under varying lighting conditions.

Connectivity: The instruments can transmit data to a computer running X-ColorQC software via either USB 2.0 or Bluetooth wireless connections to provide versatility for customers.

Modular lamp design: Lamp modules can be replaced without affecting the measurement performance or results of the instrument. The ability to change a lamp without impacting readings ensures reading consistency before and after a replacement.

Rapid Measurement cycle: The instruments feature short measurement time of about 1 second, with calculation and display in a total of 2 seconds, minimizing operator error during data acquisition. Coupled with the pressure sensors, the fast measurement times ensure integrity of the data collected.

Ergonomic: Lightweight and designed with comfort in mind, the instruments are easy to use by personnel who need to take repeated measurements during their shifts.

