

elcometer® 6070 MA6811 Multi Angle Spectrophotometer



The Elcometer 6070 is the ultimate portable multi-angle spectrophotometer. Its full range of angular viewing (15° to 110°) allows accurate evaluation of the changes exhibited in metallic, pearlescent and special effect paint finishes.

The remote operation feature allows measurement data to be stored. The stored data can be printed directly to a serial printer in a QA report format or downloaded to QA-Master® 2000, X-Rite Windows® based quality control software package.

Technical Specifications

Measuring Geometrics	45° illumination 15°, 25°, 45°, 75°, 110° aspecular viewing Angular Accuracy $\pm 0.15^\circ$ Fibre optic pick-up, coupled with DRS technology
Measurement Area	0.5" (12mm) diameter
Light Source	Gas-filled tungsten lamp, color corrected to approximately 4000°K
Illuminant Types	C, D50, D65, D75, A, F2, F7, F11 and F12
Standard Observers	2° and 10°
Receiver	Blue-enhanced silicon photodiodes
Spectral Range	400 – 700nm
Spectral Interval	28 band spectral measurement: 10nm interval from 400nm – 640nm 20nm interval from 640nm – 700nm 15nm bandwidths
Spectral Data Output	Spectral reflectance values are available for output from the RS232 port for 5 angles at 10nm intervals from 400nm 700nm
Measurement Range	0 to 400% reflectance
Measuring Time	Approximately 2 seconds
Inter-Instrument Agreement	0.18 ΔE^* average on reference BCRA tile set 0.35 ΔE^* maximum on any chromatic tile 0.15 ΔE^* maximum on any grey tile
Short-Term Repeatability	0.10 ΔE^*_{ab} on white ceramic (standard deviation)
Lamp Life	Approximately 500,000 measurements
Power Supply	Six rechargeable AA Ni-metal hydride batteries included – removable battery pack; 7.2 VDC rated @ 1400 mAh
AC Adapter Requirements	MA68: 90 – 130VAC, 50 – 60Hz, 15W max MA68X: 180 – 260VAC, 50 – 60Hz, 15W max 12 VDC @ 700mA
Charge Time	In Instrument: 4 hours (50%), 16 hours (100%)
Measurements per Charge	1,000 5-angle measurements
Data Storage (Five Angles)	200 Standards, 850 Samples
Data Interface	Patented bi-directional RS232, 300 – 19,200 baud
Display	4-row by 20 character supertwist dot matrix LCD
Operating Temperature Range	10 to 40°C 85% Relative Humidity Maximum (non-condensing)
Storage Temperature Range	-20° to 50°C
Weight	3.2lbs (1.4kg)
Dimensions	116 x 76 x 225mm
Supplied with	Calibration Standards, Operating Manual, AC Adapter and Carrying Case

Part Number

Model	Description	Part Number
Elcometer 6070	XRITE MA68II Multi-Angle Spectrophotometer	K0006070M001



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