

SPEKTROMETRAI – ŠVIESOS ANALIZATORIAI

Eil. Nr.	Aprašymas																												
1.	 <p style="text-align: center;">Cooke cal-COLOR II</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th colspan="2">Measuring Range and Accuracies</th> </tr> </thead> <tbody> <tr> <td style="width: 25%;">Illuminance</td> <td>Autoranges: 0.1 to 100,000 lux or 10,000 fc ±5% of displayed value</td> </tr> <tr> <td>Color Temperature</td> <td>Autoranges 1000 to 10,000K</td> </tr> <tr> <td>Chromaticity Coordinates</td> <td>x, y: 0 to 0.800 ±0.015</td> </tr> <tr> <td>Units</td> <td>User selectable units fc or lux by depressing the ON button twice</td> </tr> <tr> <td>Auto-power Off</td> <td>After approximately 1 minute</td> </tr> <tr> <td>Calibration</td> <td>Calibrations and re-calibrations are performed by The COOKE Corporation with traceability to the National Institute of Standards and Technology, Gaithersburg, MD USA</td> </tr> <tr> <td>Light Sensor</td> <td>Four Silicon Photodiode Sensors (Red, Green, Blue, Reference) with Cosine Correction. Diameter 20 mm, angled 70° from display face.</td> </tr> <tr> <td>Display</td> <td>Easy-read 46 x 30 mm LCD displays measuring units and battery diagnostics</td> </tr> <tr> <td>Battery (included)</td> <td>9V Alkaline 100 hours life in ON position 4 years life in OFF position</td> </tr> <tr> <td>Temperature Range</td> <td>Operation: 32° to 130°F (0° to 55°C) Storage: -4° to 160°F (-20° to 70°C)</td> </tr> <tr> <td>Carrying Case</td> <td>Soft protective cover for safe storage and transport</td> </tr> <tr> <td>Dimensions</td> <td>9.5 x 3.0 x 1.2" (241 x 76 x 30 mm)</td> </tr> <tr> <td>Weight</td> <td>9.3 oz (265 g)</td> </tr> </tbody> </table>	Measuring Range and Accuracies		Illuminance	Autoranges: 0.1 to 100,000 lux or 10,000 fc ±5% of displayed value	Color Temperature	Autoranges 1000 to 10,000K	Chromaticity Coordinates	x, y: 0 to 0.800 ±0.015	Units	User selectable units fc or lux by depressing the ON button twice	Auto-power Off	After approximately 1 minute	Calibration	Calibrations and re-calibrations are performed by The COOKE Corporation with traceability to the National Institute of Standards and Technology, Gaithersburg, MD USA	Light Sensor	Four Silicon Photodiode Sensors (Red, Green, Blue, Reference) with Cosine Correction. Diameter 20 mm, angled 70° from display face.	Display	Easy-read 46 x 30 mm LCD displays measuring units and battery diagnostics	Battery (included)	9V Alkaline 100 hours life in ON position 4 years life in OFF position	Temperature Range	Operation: 32° to 130°F (0° to 55°C) Storage: -4° to 160°F (-20° to 70°C)	Carrying Case	Soft protective cover for safe storage and transport	Dimensions	9.5 x 3.0 x 1.2" (241 x 76 x 30 mm)	Weight	9.3 oz (265 g)
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2.



Gossen M600A MAVOSPEC Miniaturized Spectrometer with Intuitive Touch Screen

Article number	M600A
Photometry	
Application	Daylight, LEDs, halogen and more
Illuminance [lux]	1 lx ... 200 000 lx
Illuminance class	Class B - DIN 5032-7 Class AA - JIS C 1609-1:2006
Error limit - cos like rating (f2')	1.9%
Distance, diffuser to surface to be measured	29 mm
Luminance [cd/m ²]	1 cd/m ² ... 10 000 cd/m ² , optionally with MAVOPROBE 1.0
Luminance measuring method	Distance / contact
Lumen - luminous flux	Optionally with MAVOSPHERE
mWatt - spectral power value	Optionally with MAVOSPHERE
CRI - color rendering index per CIE	Ra, R1 ... R14
CCT - correlated color temperature per CIE 13.3	■
Peak wavelength	■
Dominant wavelength	Optionally with GL SpectroSoft
Chromaticity coordinates [x,y] per CIE 1931	■
Chromaticity coordinates [u',v'] per CIE 1976	■
Chromaticity coordinates [u, v] per CIE 1960	■
Chromaticity error	Optionally with GL SpectroSoft
Index of metamerism	Optionally with GL SpectroSoft
Binning	Optionally with GL SpectroSoft
Evaluation per ISO3664	Optionally with GL SpectroSoft
Technical Data	
Spectral range	340 ... 750 nm (UV ... VIS)
Spectral range optional	640 ... 1100 nm (VIS ... NIR)
Sensor	CMOS image sensor
Number of pixels	256
Physical resolution	~ 1.7 nm / ~ 1.8 nm
Wavelength reproducibility	0.5 nm
Integration time	5 ms ... 100 s
A-D converter	16 bit
Signal-to-noise ratio	1000:1
Spurious light	2*10 E-3
Full width at half maximum (FWHM)	12 nm
Radiometric accuracy	4%
Flicker compensation	■
Temperature sensor and automatic zero-point correction	■

Chromaticity measuring uncertainty	0.0015
Tripod mount	■
Automatic detection of respective accessories	■
Interfaces and Memory	
USB	USB 2.0
WiFi	802.11b/g
Bluetooth	In preparation
SD card slot	Micro SD
Measured value memory	Automatic / 4 GB micro SD
Data format	XML
Plug for fiber-optic cable	Optional SMA905D
Operation	
Display	3.5" color LCD, 240 x 320
Operation	Touch-screen, also PC / notebook
CD	
Software	Optional GL SpectroSoft Basic / Pro
Miscellaneous	
Operating system	Android
Power supply via USB port	< 640 mA
Power pack	Mains power pack, 100 ... 240 V (50/60 Hz) 0.15 A
Battery / rechargeable battery	Rechargeable Li-ion battery, 1400 mAh
Rechargeable battery life	< 6 h
Charging time with charger / USB	2 h
Operating temperature	5° ... 35° C
Dimensions [H x W x D]	146 x 74 x 24 mm
Weight	315 g
Scope of delivery	Case, battery, USB cable, power pack, carrying strap, display protector, 4 GB micro SD card

3.



Gossen M601C Mavosphere 205 Integrating Sphere ID 205mm

Inside diameter	205 mm
Entrance aperture	50 mm
Auxiliary light source	LED white
Weight	3,3 kg

Ulbricht integrating sphere for luminous flux measurement.

4.



Gossen M601D Mavosphere 500 Integrating Sphere ID 500mm

Inside diameter	500 mm
Entrance aperture	80 mm
Auxiliary light source	LED white
Weight	17,5 kg

Ulbricht integrating sphere for luminous flux measurement.

5.



Gossen M601E Mavosphere 1100 Integrating Sphere ID 1100mm

Ulbricht integrating sphere for luminous flux measurement.

6.



Gossen M601F Mavosphere 2000 Integrating Sphere ID 2000mm

Inside diameter	2000 mm
Entrance aperture	700 mm
Auxiliary light source	LED white
Weight	190 kg

Ulbricht integrating sphere for luminous flux measurement.

7.



Gossen M601A Mavosphere 48

8.



Gossen M602A Mavoprobe 1.0

9.



Gossen M603A Basic Display and Evaluation Software

10. **Gossen M603B PRO Professional with Enhanced Functionality**

11. **Gossen M997B Factory Calibration Certificate**