

The CHROMA Range



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Sherwood Scientific manufactures a range of three filter photometers: the Model 252 Analogue, the Model 254 Digital, and the Model 257 Concentration. The range together with an extensive array of accessories covers the full requirements for colorimetric analysis.

All three units have a long pedigree dating from the Model 2, the first commercial colorimeter developed by EEL in the UK in 1950. The model 252 colorimeter is the most widely used colorimeter in the world.

All three units can be battery powered and thus can be used outside the Laboratory.

All of the accessories except the Printer will fit all three units, leaving the analyst to decide which is most appropriate to the task in hand.

- **The CHROMA Model 252 Analogue Colorimeter**

Features the traditional scale readout showing the relationship between Optical Density and % Transmission. This has a wide usage particularly in Education.

- **The CHROMA Model 254 Digital Colorimeter**

Has the same performance specification as the Model 252 with the advantage of a digital readout. This overcomes the drawback with an analogue scale in discriminating between higher values of Optical Density. The full 0-2 OD units range can be read to .01 OD unit.

The model 254 is also provided with a recorder output for permanent recording of results particularly if used as the detector of a continuous flow chemical analyser and with a suitable flow cell accessory available from Sherwood Scientific.

- **The CHROMA Model 257 Concentration Colorimeter**

Extends the portability and versatility of the CHROMA range into high precision measurement, with OD readings to to three decimal places (0.001); and Concentration by Standardisation and direct input of Factor. This facility enables this precision instrument to be used with a wide variety of commercial test kits to analyse many different samples and analytes particularly in clinical chemistry using Standard Methods. To enhance further the capabilities of the Model 257, a printer interface (RS232) is standard in addition to the recorder output.

The Model 257 has been used in many Breweries to determine the colour of Beer following the EBC method and using a recently introduced high specification 430 nm Interference filter.

Specifications

Model 252 - Absorbance and Transmittance.

Model 254 - Absorbance and Transmittance.

Model 257 - Absorbance, Transmittance and Concentration.

Spec	Model 252	Model 254	Model 257
Display	Analogue	2.5 digit LCD	3.5 digit LDCD
Wavelength selection	Drop in filters	Drop in filters	Drop in filters
Wavelength range	400-700nm	400-700nm	400-700nm
Modes	Abs, Trans	Abs, Trans,	Abs, Trans, Conc
Mode Selection	Dual scale meter	Switch	Touch panel
Absorbance range	0.0 to 1.0	0.00 to 1.99	0.000 to 1.999
Absorbance resolution	0.01	0.01	0.001
Transmission range	0-100%	0-100%	0-100%
Warm up	15 mins	15 mins	15 mins
Light source	Pre-focused Tungsten Lamp	Pre-focused Tungsten Lamp	Pre-focused Tungsten Lamp
Recorder output	no	yes	yes
RS232 Output	no	no	yes