

EC1-L01

The Hagner EC1-L Digital Luminance Meter is a small, handy and easy-to-use instrument for measuring luminance

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The Hagner EC1-L01 Screen Luminance and Film Density Meter

The Hagner EC1-L01 is a compact instrument for measuring the luminance of luminous screens, for instance of film and slide viewers, X-ray viewers etc., and for easy calculation of film density. It has both an automatic zeroing and an on/off switch and the only controls needed are a four position range selection switch and a hold button to retain the displayed value.

The opening of the detector, which should be pressed against the screens, has a round aperture with an area of 1 cm².

The meter is normally calibrated to read from 0.1 cd/m² to 200,000 cd/m².

The calculation of film density requires also a simple calculator which will give the logarithm to base 10 of a number (LOG10)

Example

Screen luminance is 135.200 cd/m²

Film luminance is 10.7 cd/m²

$$\frac{135,200}{10.7} = 4.1$$

Density is D = LOG10

If the value of screen luminance is stored in the memory of the calculator, the density at several different positions on the film can be calculated very easily.

Instrument data for EC1-L01

Detector:	Silicon photodiode V _λ - filtered
Measurement range:	0.1 - 200,000 cd/m ²
Measuring angle:	36°
Accuracy:	Better then +/- 3% (+/- 1 in last digit)
Power supply:	9 Volt battery type PP3 (lifetime 350 hours)
Temperature drift:	<10°C +0.35% / °C
	>30°C -0.35% / °C

Dimensions:

130 x 75 x 35 mm

Weight:

0.24 kg

