

SAATIPRINT

Precision instrument used to measure exposure lamp intensity in a narrow spectral band where the photoemulsion is at its most sensitive.

The most effective spectral band in exposing stencil materials is the 400-430 nanometer range. The TQM® Digital Radiometer uses a sensor containing a wavelength-selector filter that isolates only this blue/violet light. It provides therefore a quick and easy way to check bulb degradation periodically and light distribution evenness over the surface of the exposure frame. The instrument is battery operated and gives digital measurements in milliwatts/cm².



TQMTM
DIGITAL RADIOMETER
DRC 100X

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Features and Benefits

- *Portable and battery operated.*
- *Gives instant reading at glass/stencil level.*
- *Easy-to-read liquid crystal display giving measurements in milliwatt/cm².*
- *Uses sensors (interchangeable) with wavelength-selector filter.*
- *The most accurate method to assess bulb efficiency and light distribution.*
- *Eliminates risks of uneven stencil exposure.*
- *Supplied in strong protection carrying case.*

TECHNICAL SPECIFICATIONS	
READOUT UNIT	
IRRADIANCE RANGE:	0-19.990 milliwatt/cm ²
RESOLUTION:	10 milliwatt/cm ²
DISPLAY:	4.5 digits, 7 segments, LCD 12.7 mm high
CONVERSION RATE:	3 readings per second nominal
OVERALL ACCURACY:	Better than +/- 5% with reference to NIST standards
TEMPERATURE COEFFICIENT:	+/- 0.025%/°C (0 to 50°C)
SENSOR	
DIX-365:	320-400 nanometers
DIX-405:	390-420 nanometers
TEMPERATURE COEFFICIENT:	+/- 0.020%/°C (0 to 50°C)
POWER REQUIREMENTS	
BATTERY OPERATION:	One 9 volt alkaline battery
DIMENSIONS	
<i>Readout unit:</i>	
LENGTH:	18.4 cm
WIDTH:	9.0 cm
DEPTH:	5.1 cm
WEIGHT:	0.450 kg
<i>Sensor:</i>	
LENGTH:	7.6 cm
WIDTH:	5.1 cm
DEPTH:	1.3 cm
WEIGHT:	35.4 g
<i>Sensor Cord Length:</i>	91.4 cm



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