

Model PMLX Precision Photometer



Ludlum Measurements, Inc.



Introduction

This hand-held, easy-to-use Model PMLX Precision Photometer with digital display is designed to measure both illuminance (the amount of light falling on a surface) in lux (lumens per m²) and luminance (the amount of light emitted from a surface in 'nit' [candela per m²]).

The Precision Photometer quickly verifies that collimator light sources are in accordance with regulations. It also measures the brightness and uniformity of an X-ray viewbox for appropriate brightness and uniformity. When used for Mammography Quality Control, the photometer will provide measurement of viewer luminance and room illuminance required by MQSA guidelines.

Either of two optional (rigid or flexible) fiber optic probes can be used to make measurements of SMPTE* patterns produced by digital display units, in order to determine appropriate density and contrast settings for image display monitors.

The battery operated photometer has a bright LED display and only two operating controls: "Measure" for taking readings and "Range" to adjust the meter display to the light being measured.

*SMPTE: Society of Motion Picture & Television Engineers

Specifications

Part Number 99-9700

ILLUMINANCE (LUX): 0.1 to 999,000

LUMINANCE (cd/m²): 0.1 to 999,000

ACCURACY: 1% plus

ACCURACY SPECTRAL: 7% at 2800 °K

SENSOR: silicon with photometric filter

POWER: button cell batteries

SIZE: approximately 10 x 7 x 3 cm (4 x 2.8 x 1.2 in.)

WEIGHT: 120 g (4 oz.)

Available Options:

Rigid Fiber Optic Probe	Model PM10	Part Number 99-9701
Illuminance Receptor	Model PM11	Part Number 99-9702
Flexible Fiber Optic Probe	Model PM12	Part Number 99-9703
Luminance Receptor	Model PM13	Part Number 99-9704

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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