

Enlarger Photometer Model PH-1



b-wTechnik

DESCRIPTION

The photometer is specifically designed for use with photographic enlargers giving high precision linear measurements. It measures the effective film density taking into account enlarger Callier effects.

The sensor is a large area silicon blue cell capable of a 7 decade range.

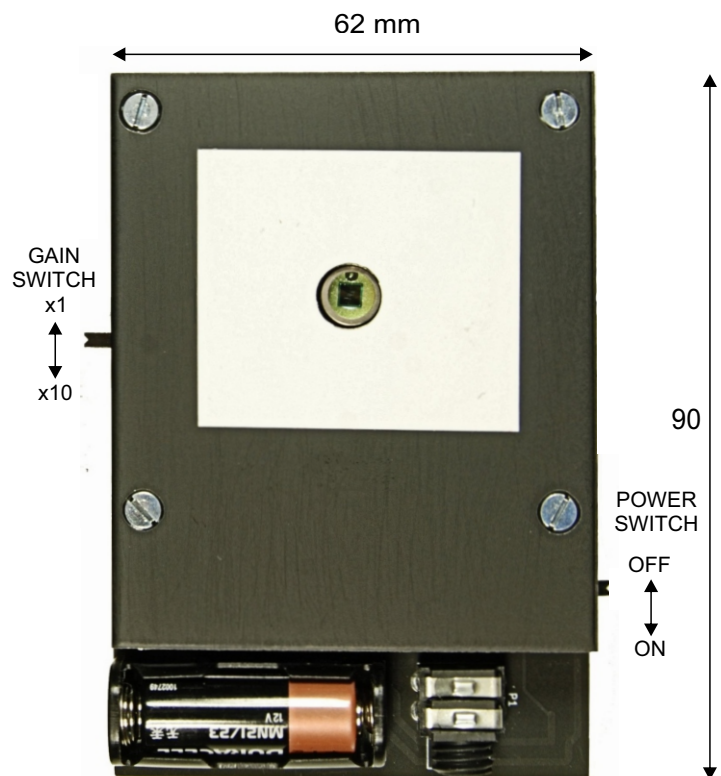
The associated electronic amplification operates in the micro power region giving good battery life.

FEATURES

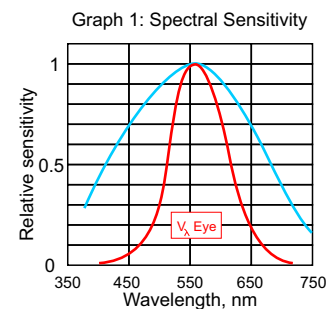
- Switched gain, x1 and x10
- 0 - 9v output range
- With a typical enlarger, the practical measurement range is greater than 4 decades equivalent to 12 stops
- Low cost 12v battery power source

TYPICAL APPLICATIONS

- Creating film characteristic curves
- Monitoring routine film processing
- Monitoring film exposure accuracy



SPECIFICATIONS	
Sensitivity, typical, x1 gain	0.3 V / lx
Spectral Sensitivity	see graph 1
Maximum Output (12V battery)	9.5 V
Output Offset Voltage	< 0.05 mV
Temperature coefficient	-0.05 %/K
Supply Current	< 40uA
Battery type / life (battery voltage at 9.5V)	MN21 / 1000 hours (V _{out} = 0)
Dimensions	62 x 90 x 15 mm
Output Connector	Mono 3.5 mm jack
1 m Cable Supplied	3.5 mm jack to 4 mm banana plug



The associated articles and spreadsheets are available, free of charge. The curve fitting and analysis computer program is available only for registered users of the photometer. All files can be downloaded from the website (b-wtechnik.pp7.uk).

Registration procedure details are shipped with each photometer.

The photometer has a voltage output and requires an additional digital multimeter for normal use. This is not supplied with the photometer.