

pE-100

Single Wavelength
LED Fluorescence
Illumination



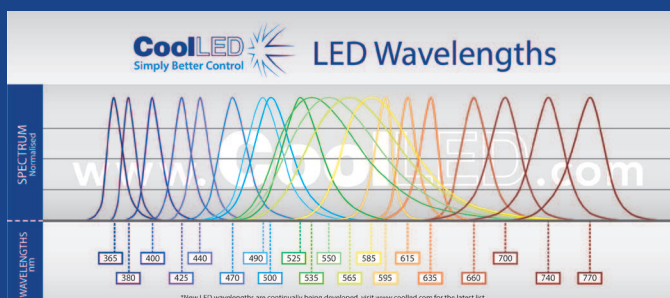
Ideal for Screening
Fluorescence.

The pE-100 Series is a mercury-free family of compact and simple to use LED illumination systems developed for applications requiring a single LED excitation wavelength.

CoolLED
Simply Better Control



Specification



20 different LED wavelengths from the near-UV at 365 nm to the near-IR at 770 nm

Configuration

There are three standard pE-100 configuration options:

Direct-fit

pE-100 for connecting to a microscope by selecting from a range of microscope adaptors which cover all current and most older models. A simple once only adjustment will allow optimisation to the optical path of the microscope.

Liquid Light Guide

pE-100^{light guide} with a fixed 3 mm diameter liquid light guide

Fiber

pE-100^{fiber} with an SMA connection for accepting multimode fibers. The pE-100^{fiber} has been designed with efficient coupling into a wide range of multimode fibers. The pE-100^{fiber} also includes excitation filter holders.

Combination Configuration

Direct fit configuration

pE-100 units can be combined using the pE-Combiner for applications requiring a second LED wavelength with independent control and triggering.

Control & Interface

Manual: Manual control for instant on/off and intensity control in 1% steps from 0 – 100%

Remote: Via single TTL for on/off control using BNC connection on the control pod. Triggering speed approx. 150 µs

Power

Power requirements: 100-240 V a.c. 50/60 Hz, 0.7A
Power consumption: 2.2 W (standby), 25 W (full intensity)

Dimensions

pE-100 Light Source: 60 mm (w) x 170 mm (d) x 70 mm (h) - Weight 0.38 kg
pE-100^{light guide} Light Source: 52 mm (w) x 95 mm (d) x 52 mm (h) - Weight 0.42 kg
pE-100^{fiber} Light Source: 76 mm (w) x 165 mm (d) x 80 mm (h) - Weight 0.42 kg
Combined 2 x pE-100^{fiber}: 190 mm (w) x 220 mm (d) x 190 mm (h) - Weight 1.5 kg
pE-100 Control Pod: 102 mm (w) x 110 mm (d) x 50 mm (h) - Weight 0.55 kg
pE-100 Power Supply: 55 mm (w) x 95 mm (d) x 40 mm (h) - Weight 0.19 kg

To Order

244-87-XXX-YYY-ZZ: pE-100 direct fit Light Source, fixed collimating adaptor to customer-specified microscope, remote manual control pod, and power supply

244-87-XXX-L15-ZZ: pE-100^{light guide} Light Source with fixed 3 mm diameter, 1.5 m long liquid light guide, remote manual control pod, and power supply

pE-100-F-XXX-ZZ: pE-100^{fiber} Light Source, remote manual control pod, SMA fiber connection, and power supply (no fiber provided)

pE-100-F-XXX-XXX-ZZ: Combination of two pE-100^{fiber} Light Sources, remote manual control pod, SMA fiber connection, and power supply. Accepts 25 mm diameter excitation filters (fiber and filters not provided)

To specify wavelength (XXX) see LED wavelengths (<http://www.cooled.com/product-detail/led-wavelengths/>). To specify microscope adaptor (YYY), see Adaptors (<http://www.cooled.com/product-detail/adaptors-2/>). To specify power cable (ZZ): 10 = Australia, 20 = Europe, 30 = UK, 40 = USA. For fiber options see Accessories under pE-100 (<http://www.cooled.com/product-detail/pe-100/>)

Warranty: System = 36 months, LEDs = 36 months

Environment & Safety

LED products are more sustainable and energy efficient than conventional illuminators. CoolLED's products have the following benefits:

- Mercury-free and Laser-free
- Energy efficient: 80% less power
- Long lifetime
- No bulb replacements
- Reduced risk of eye damage
- Quiet operation
- No special disposal regulations



For more information on how CoolLED products can help you, contact us now:

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