

pE-100

Single Wavelength
LED Fluorescence
Illumination



Ideal for Screening
Fluorescence.

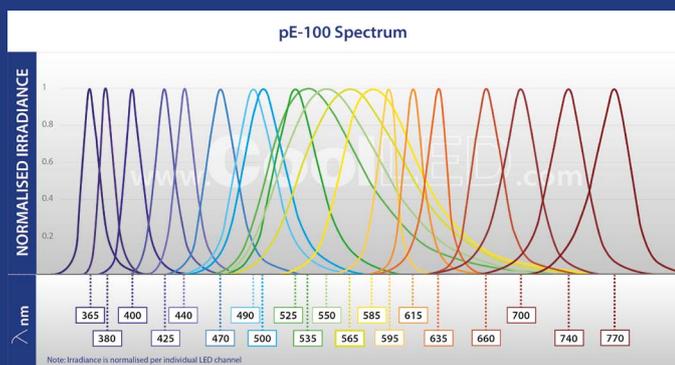
The pE-100 Series is a mercury-free family of compact and simple to use LED illumination systems developed for applications requiring a single LED excitation wavelength.

CoolLED
Simply Better Control



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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

Fibre

pE-100^{fibre} with an SMA connection for accepting multimode fibres. The pE-100^{fibre} has been designed with efficient coupling into a wide range of multimode fibres. The pE-100^{fibre} 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)

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

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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^{fibre} Light Source:** 76 mm (w) x 165 mm (d) x 80 mm (h) - Weight 0.42 kg
- Combined 2 x pE-100^{fibre}:** 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^{fibre} Light Source, remote manual control pod, SMA fibre connection, and power supply (no fibre provided)

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

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

Warranty: System = 36 months, LEDs = 36 months

Environment & Safety

LED products help laboratories become more sustainable, saving energy and reducing the carbon footprint when compared with conventional illuminators. CoolLED's products have the following benefits:

- Mercury-free and laser-free
- Energy Efficient
- Long lifetime
- No bulb replacements
- Reduced risk of eye damage
- Quiet operation
- No special disposal regulations or issues





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All data correct at time of publication