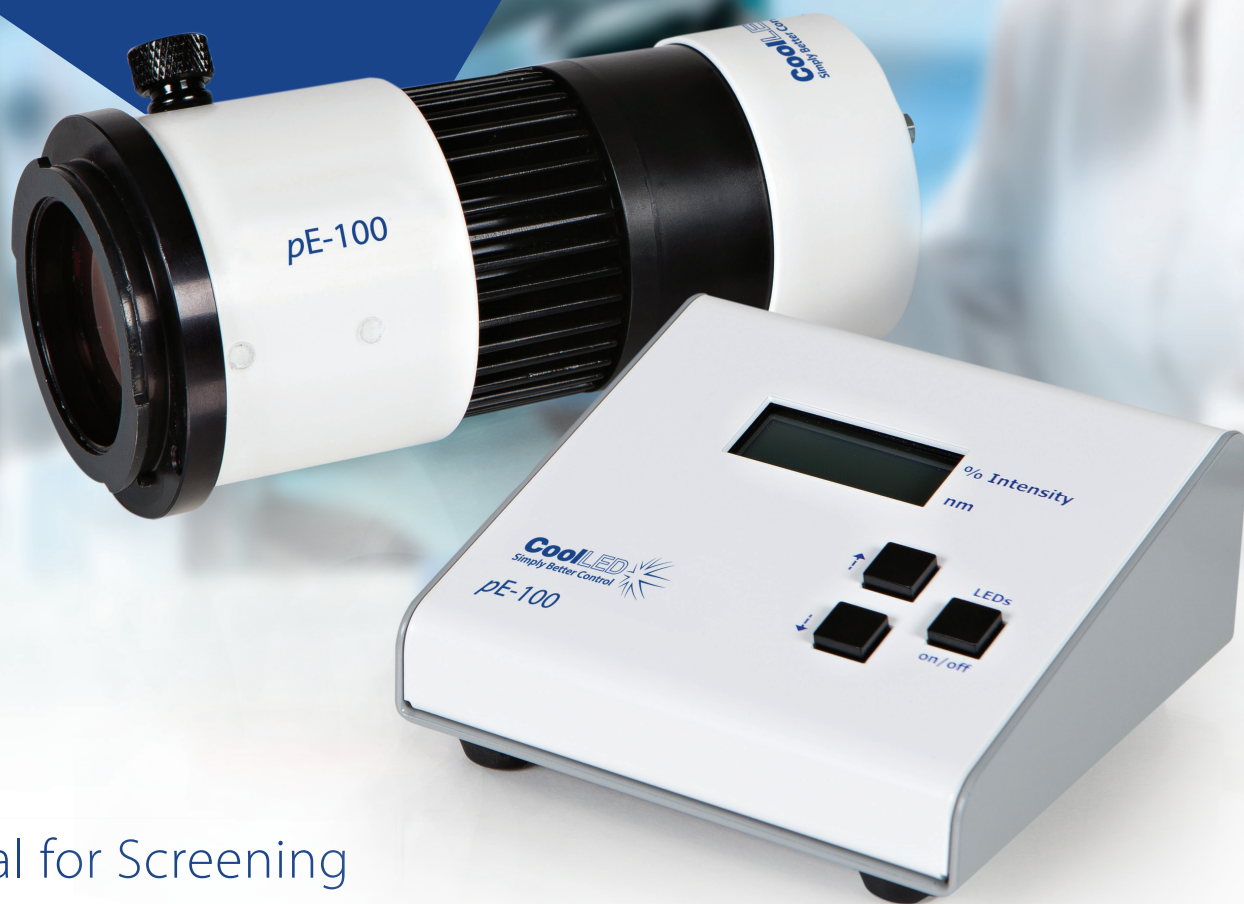


# pE-100

Single Wavelength  
LED Fluorescence  
Illumination



Ideal for Screening  
Fluorescence.

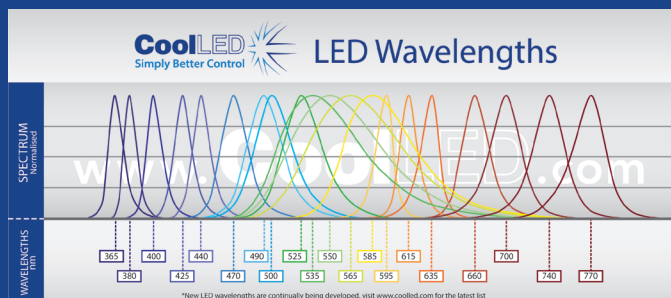
The pE-100 Series is a mercury-free family of compact and simple to use LED illumination systems developed for applications requiring a single LED excitation wavelength.

**CoolLED**  
Simply Better Control



[www.CoolLED.com](http://www.CoolLED.com)

## Specification



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

## Configuration

There are three standard  $\rho$ E-100 configuration options:

### Direct-fit

$\rho$ E-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

$\rho$ E-100<sup>light guide</sup> with a fixed 3 mm diameter liquid light guide

### Fiber

$\rho$ E-100<sup>fiber</sup> with an SMA connection for accepting multimode fibers. The  $\rho$ E-100<sup>fiber</sup> has been designed with efficient coupling into a wide range of multimode fibers. The  $\rho$ E-100<sup>fiber</sup> also includes excitation filter holders.

## Combination Configuration

### Direct fit configuration

$\rho$ E-100 units can be combined using the  $\rho$ E-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. 150s

## Power

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

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

t: +44 (0)1264 323040 (Worldwide) 1-800-877-0128 (USA/Canada)

w: [www.CoolLED.com](http://www.CoolLED.com)

e: [info@CoolLED.com](mailto:info@CoolLED.com)

## Dimensions

**$\rho$ E-100 Light Source:** 60 mm (w) x 170 mm (d) x 70 mm (h) - Weight 0.42 kg  
 **$\rho$ E-100<sup>light guide</sup> Light Source:** 52 mm (w) x 95 mm (d) x 52 mm (h) – Weight 0.42 kg  
 **$\rho$ E-100<sup>fiber</sup> Light Source:** 76 mm (w) x 165 mm (d) x 80 mm (h) - Weight 0.42 kg  
**Combined 2 x  $\rho$ E-100<sup>fiber</sup>:** 190 mm (w) x 220 mm (d) x 190 mm (h) – Weight 1.5 kg  
 **$\rho$ E-100 Control Pod:** 102 mm (w) x 110 mm (d) x 50 mm (h) - Weight 0.55 kg  
 **$\rho$ E-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:**  $\rho$ E-100 direct fit Light Source, fixed collimating adaptor to customer-specified microscope, remote manual control pod, and power supply

**244-87-XXX-L15-ZZ:**  $\rho$ E-100<sup>light guide</sup> Light Source with fixed 3 mm diameter, 1.5 m long liquid light guide, remote manual control pod, and power supply

**$\rho$ E-100-F-XXX-ZZ:**  $\rho$ E-100<sup>fiber</sup> Light Source, remote manual control pod, SMA fiber connection, and power supply (no fiber provided)

**$\rho$ E-100-F-XXX-XXX-ZZ:** Combination of two  $\rho$ E-100<sup>fiber</sup> 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.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 fiber options see Accessories under  $\rho$ E-100 (<http://www.coolled.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

