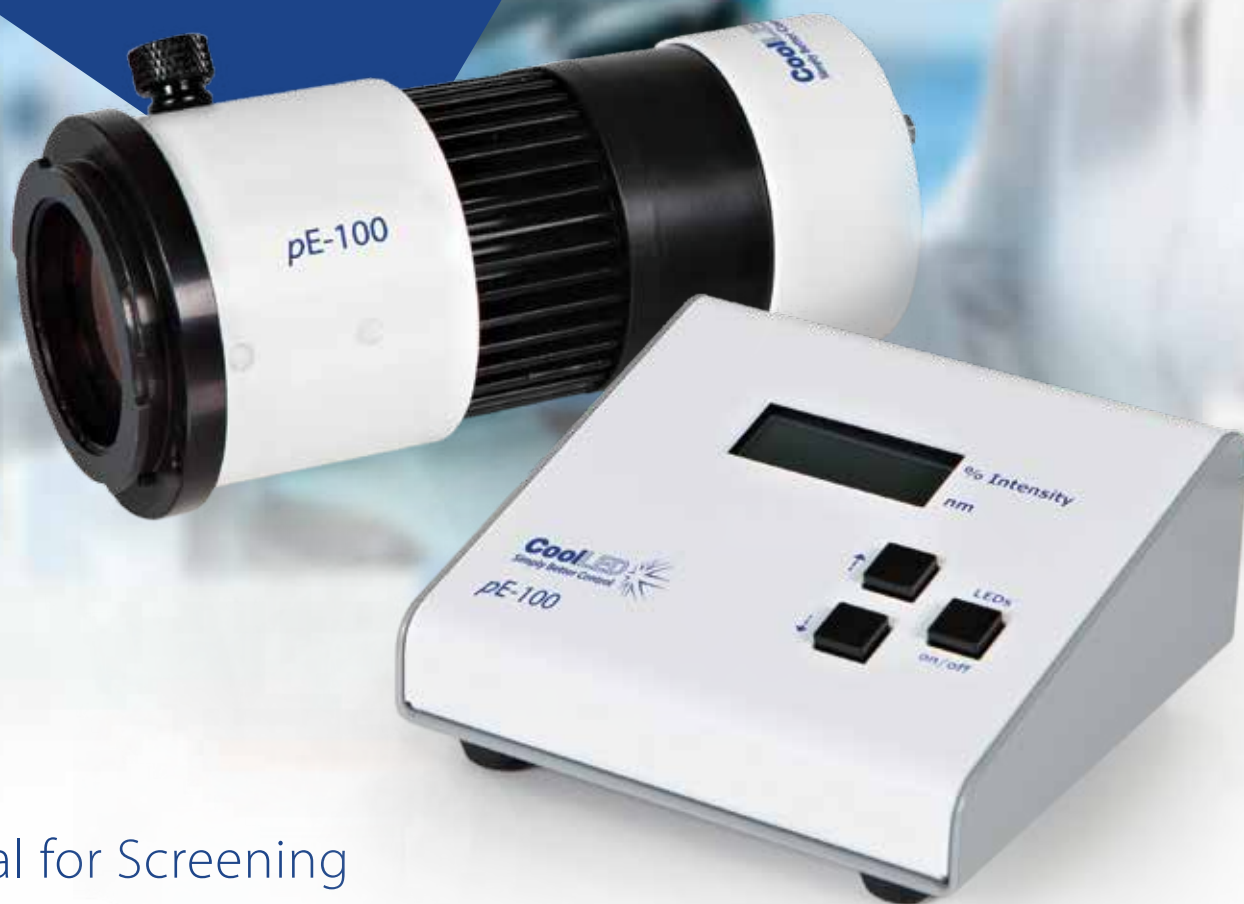


# pE-100

Single Wavelength  
LED Fluorescence  
Illumination



Ideal for Screening  
Fluorescence.

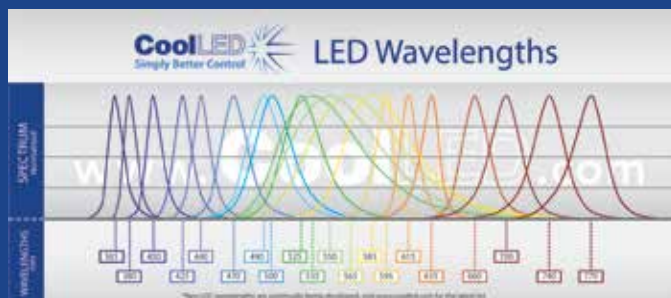
The pE-100 Series is a mercury-free family of compact and simple to use LED illumination systems developed for applications requiring a single LED excitation wavelength.

**CoolLED**  
Simply Better Control



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

## Specification



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

## 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</sup> guide with a fixed 3mm 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. 150us

## Power

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

## Dimensions

**$\rho$ E-100 Light Source:** 60mm(w) x 170mm(d) x 70mm(h) – Weight 0.42kg  
 **$\rho$ E-100<sup>light guide</sup> Light Source:** 52mm(w) x 95mm(d) x 52mm(h) – Weight 0.42kg  
 **$\rho$ E-100<sup>fiber</sup> Light Source:** 76mm(w) x 165mm(d) x 80mm(h) – Weight 0.42kg  
**Combined 2 x  $\rho$ E-100<sup>fiber</sup>:** 190mm(w) x 220mm(d) x 190mm (h) – Weight 1.5kg  
 **$\rho$ E-100 Control Pod:** 102mm(w) x 110mm(d) x 50mm(h) – Weight 0.55kg  
 **$\rho$ E-100 Power Supply:** 55mm(w) x 95mm(d) x 40mm(h) – Weight 0.19kg

## 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 3mm diameter, 1.5m 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 25mm 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  $\rho$ E-100 (<http://www.cooled.com/product-detail/pe-100/>)

**Warranty:** System = 12 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
- Energy efficient: 80% less power
- Long lifetime (typically 25,000 operating hours)
- 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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