pE-100

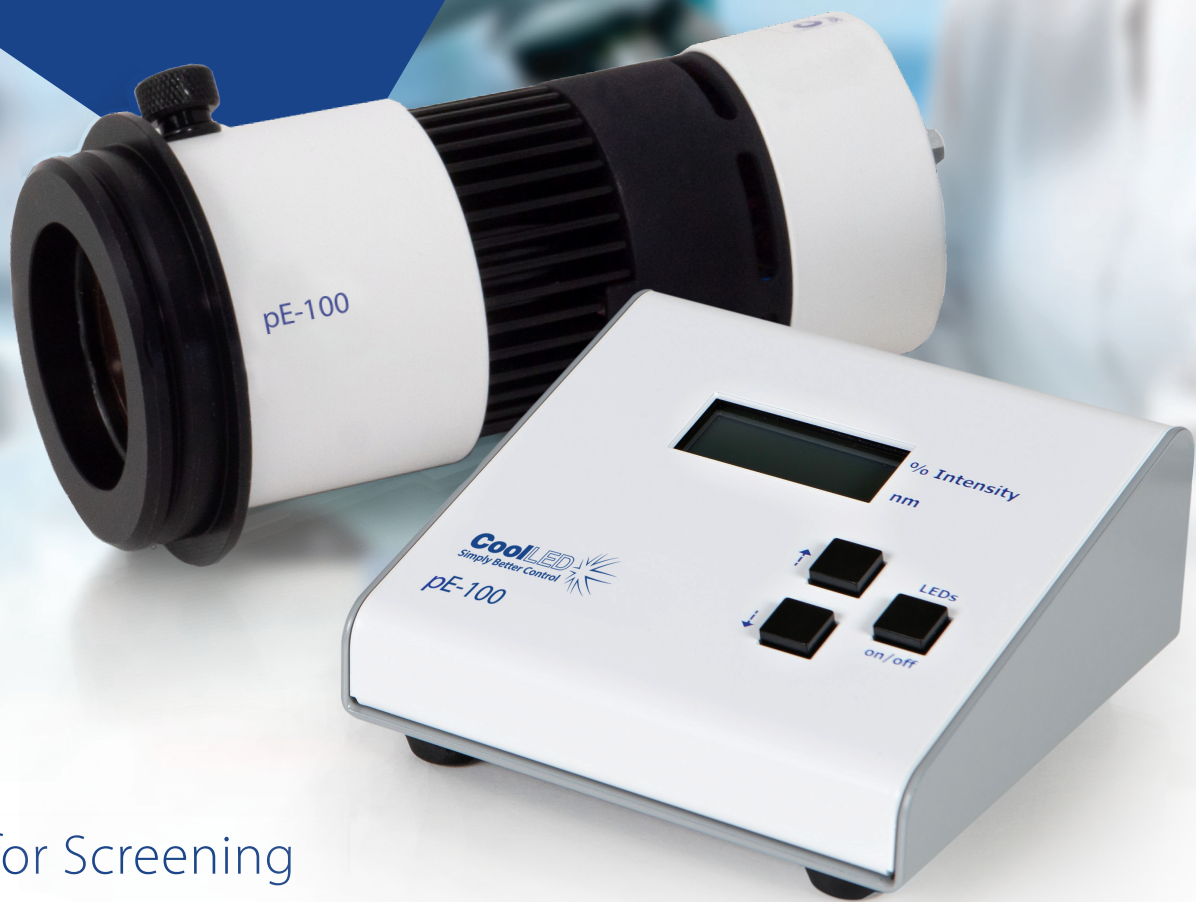## Single Wavelength LED Fluorescence Illumination
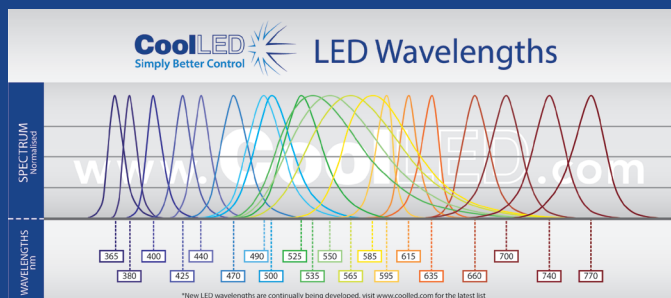

Ideal for Screening Fluorescence.

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

CoolLED Simply Better Control — **LED Wavelengths**

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-100light guide with a fixed 3 mm diameter liquid light guide

Fibre

pE-100fibre with an SMA connection for accepting multimode fibres. The pE-100fibre has been designed with efficient coupling into a wide range of multimode fibres. The pE-100fibre 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-100light guide Light Source:	52 mm (w) x 95 mm (d) x 52 mm (h) - Weight 0.42 kg
pE-100fibre Light Source:	76 mm (w) x 165 mm (d) x 80 mm (h) - Weight 0.42 kg
Combined 2 x pE-100fibre:	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-100light 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-100fibre 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-100fibre 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

CE

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

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