

# pE-2

## Flexible Illumination System

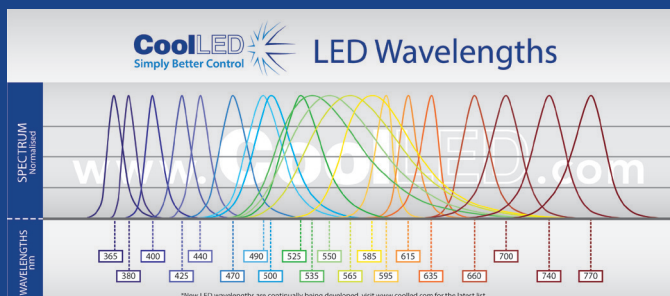


The pE-2 is a fluorescence LED illumination system which provides controllable light with a choice of 20 wavelengths.

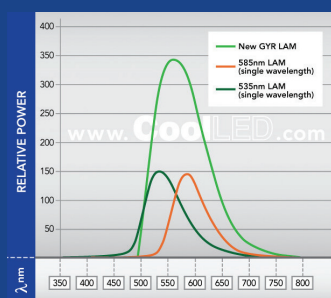
**CoolLED**  
Simply Better Control



## Specification



This modular system accepts LAMs (LED Array Modules) selected from CoolLED's wide range of LED wavelengths. These LAMs can be interchanged by the user so that different LED wavelengths can be illuminated depending on the application. The system can drive up to 4 LED wavelengths.



Recent developments in LED technology have enabled increased intensity in what was historically the weaker green-yellow-red ("GYR") region of the LED spectrum. A new wide spectrum GYR LAM is now available and can readily be fitted to new and existing pE-2 systems. The graph shows the greater comparative intensity of this LAM over the previous LED wavelengths available for this spectral region.

## Control & Interface

Manual:	Manual control pod
Remote:	Ethernet
	USB switching speed <10 milliseconds
	TTL switching speed <300 microseconds

## Power

Power requirements:	100-240V a.c. 50/60Hz, 1.5A
Power consumption:	7.6W (standby), 97W (1 wavelength full intensity), 174W (2 wavelengths full intensity)

## Dimensions

pE-2 Light Source:	140mm(w) x 250mm(d) x 215mm(h) - Weight 5.6kg
pE-2 Collimator:	75mm(w) x 143mm(d) x 134mm (h) - Weight 1.16kg
pE-2 Control Pod:	95mm(w) x 110mm(d) x 40mm(h) - Weight 0.55kg

## To Order

- 244-3750-99415-YYY-ZZ:** pE-2 Light Source, 2 x 3mm diameter, 1.5m long liquid light guides, pE-2 Collimator, interchangeable microscope adaptor to customer-specified microscope, remote manual control pod, and power supply.
- 244-5100-XXX-XXX:** LED Array Module (LAM) at two specified wavelengths
- 244-5100-GYR:** LED Array Module (LAM) at green-yellow-red (GYR) wavelengths
- 244-5100-XXX:** LED Array Module (LAM) at single specified wavelength

To specify LED wavelength (XXX) see LED Wavelengths (<http://www.cooled.com/product-detail/led-wavelengths/>) To specify microscope code (YYY) see Adaptors (<http://www.cooled.com/product-detail/adaptors-2/>) To specify power cable (ZZ): 10 = Australia, 20 = Europe, 30 = UK, 40 = USA

**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:

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)

