















Advantages of pE-300^{white}

- Broad spectrum, high power white illumination
- Simple to fit, simple to use
- Instant on/off
- Excellent field of view
- No bulb replacement or aligning
- Long lifetime (25,000 operating hours)
- Reduced power consumption for energy saving
- No shutters or ND filters required

- Filter set compatibility, including DAPI
- Stable and repeatable
- Quiet operation
- Fits all new and most older microscopes
- •TTL triggering
- Mercury-free



Simply better control

The manual control pod offers instant on/off operation with 0-100% intensity control in 1% steps. The pE-300^{white} is ideal for use with multi-band filter sets providing simplicity of operation with fewer filter cubes – potentially removing the need for single band filter sets altogether. It allows you to control the brightness of each fluorophore independently, in a multi-stained sample. Fluorophores can be viewed in isolation or in combination without filter cube changes. Application example: FISH

CoolLED's *p*E-300^{white} illumination system is designed to offer broad spectrum LED illumination for regular use in fluorescence applications.

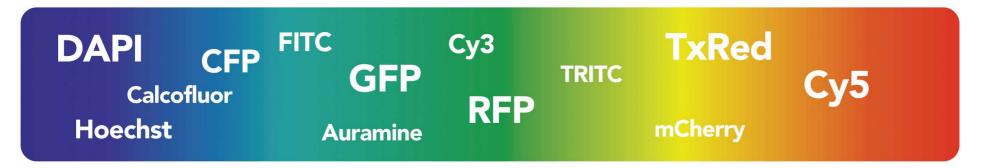
The illumination system can be fitted directly to the microscope as a better and safer alternative to a high-pressure mercury or metal-halide illuminator. Spectral coverage is from the UV (DAPI excitation) to the Red region (Cy5 excitation). The illumination system will excite common fluorophores used in hospital and research laboratory environments.

With a comprehensive range of microscope adaptors, the pE-300^{white} can be fitted to most microscopes. The result is a safe, convenient illumination system which will last for many years without any additional operating costs.

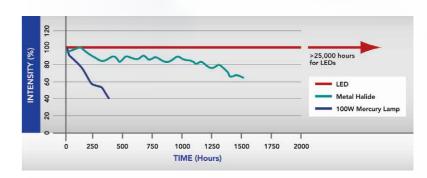
Liquid Light Guide Option

The pE-300^{white} can be supplied with a liquid light-guide when there is a need to keep the source of illumination remote from the microscope. The optional pE-Universal Collimator is available if required. As a replacement to a metal-halide source on a confocal microscope, it can be used for pre-aligning samples before scanning commences. This is particularly attractive as photo-bleaching of the sample can be minimised when LED illumination is used.

Some of the many fluorophores excited by the $pE-300^{\text{white}}$

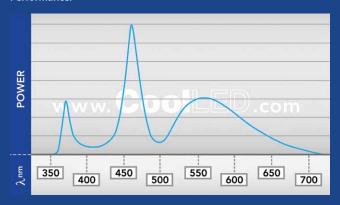


LEDs last longer



Specification

Performance:



Typical power values for the pE-300^{white} configured to match SINGLE BAND FILTER SETS. Powers measured at sample plane of research grade microscope using 100% mirror in cube and 10X objectives. Due to a programme of continual development, performance values may change. Correct at time of print.

UV	Blue	GYR (Green/Yellow/Red)
40 mW	450 mW	410 mW

For those considering using the pE-300^{white} with MULTI-BAND FILTER SETS, please refer to further information on the CoolLED website http://www.coolled.com/product-detail/pe-300white/

Control & Interface

Manual: Manual control pod

Remote: Single TTL for on/off control. Switching speed <30uS

Connectivity: USB (B type) for PC connection

Power

Power requirements: 110-240Va.c. 50/60Hz, 2A **Power consumption:** Standby Max 2W

White (all 3 bands) at 100% intensity

2 bands at 100 % intensity

Max 80W

Max 63W

1 band at 100% intensity

Max 38W

Dimensions

 Light Source:
 77mm(w) x 186mm(d) x 162mm(h)
 Weight 1.40kg

 Control pod:
 88mm(w) x 125mm(d) x 37mm(h)
 Weight 0.32kg

 Power Supply:
 167mm(w) x 67mm(d) x 35mm(h)
 Weight 0.62kg

To Order

pE-300-W-D-SB-YYY-ZZ: Light source configured for SINGLE BAND FILTER SETS, control pod, power supply Light source configured to SINGLE BAND FILTER SETS, control pod, power supply Light source configured for MULTI-BAND FILTER SETS, control pod, power supply pE-300-W-L-MB-YYY-ZZ: Light source configured to MULTI-BAND FILTER SETS, control pod, power supply Light source configured to MULTI-BAND FILTER SETS, control pod, power supply

pE-1904:3mm diameter, 1m long liquid light guidepE-1908:3mm diameter, 3m long liquid light guide

pE-10400: Universal collimator for use with a liquid light guide. Requires additional adaptor

pE-ADAPTOR-YYY: Microscope Adaptor to customer-specified microscope

To specify microscope adaptor (YYY), see Adaptors (http://www.coolled.com/product-detail/adaptors-2/) To specify local power cable (ZZ): 10 = Australia, 20 = Europe, 30 = UK, 40 = USA

Warranty: System = 12 months, LEDs = 36 month

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 (25,000 operating hours)
- No bulb replacements
- · Reduced risk of eye damage
- Quiet operation
- No special disposal regulations or issues



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

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