

pT-100

Optimised
Transmitted Light
LED Illumination

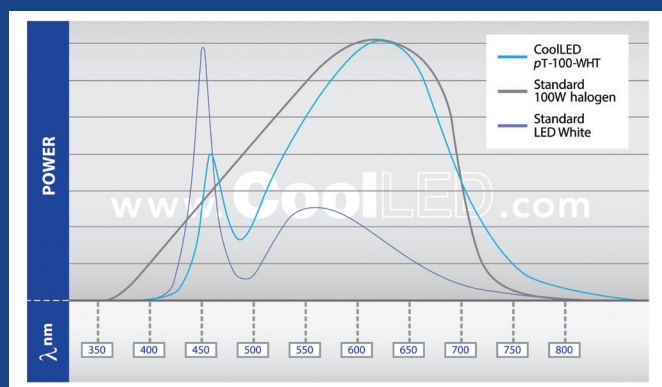


LED Solution for Transmitted
Light Applications - brightfield,
darkfield, DIC, Phase Contrast
and more...

CoolLED 
Simply Better Control

The **pT-100** is an LED solution for transmitted illumination. There are 4 variants available, one broad white output (**pT-100-WHT**), and three narrower bandwidths (**pT-100-525**, **pT-100-635**, **pT-100-770**).

pT-100-WHT

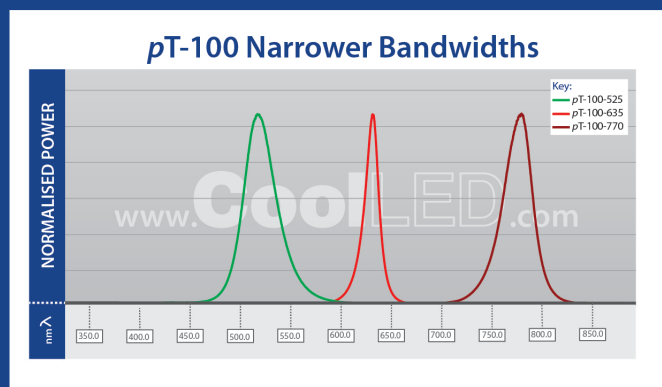


The **pT-100-WHT** is a powerful white LED illumination system designed to replace a 100W halogen lamp. Histologists and cytologists who are familiar with results from a conventional halogen lamp can immediately make accurate and reliable diagnosis using the **pT-100-WHT** as colours will appear the same. Unlike a Halogen lamp, the colour balance of the **pT-100-WHT** illumination system does not vary with intensity, removing the need to make any adjustment.

pT-100-WHT Values	
Colour Rendering Index (CRI-Ra)	>90
Correlated Colour Temperature (CCT)	~ 3000K

The **pT-100-WHT** has been designed to match the standard settings of the 100W halogen lamp.

pT-100-525, pT-100-635, pT-100-770



pT-100-525 provides phosphor-free illumination centred around 525nm, a bandwidth which is optimised for the spectral response of most scientific cameras. This allows switching between standard brightfield and fluorescence imaging without the fear of background from a phosphored LED. The **pT-100-525** will allow you to achieve great contrast from both brightfield and fluorescence imaging.

pT-100-635 provides a phosphor-free solution for brightfield imaging. Illuminating with a peak of 635nm, it provides deeper penetration, excellent for revealing detail in thicker samples. The slightly longer wavelength is less likely to stimulate or damage light sensitive samples.

pT-100-770 is the specialised solution for IR contrast techniques such as DIC, Dodt contrast etc. Centred around 770nm, this longer wavelength illumination system provides optimal output for deeper sample penetration techniques that require the use of infrared light. This provides greater detail from thicker samples giving increased experimental benefits.

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 a BNC connection on the control pod. Triggering speed <150µs

Attachment: Direct fit via adaptor for all major microscopes

Power

Power requirements: 100-240V a.c. 50/60Hz, 0.7A
Power consumption: 1W (standby), 20W (full intensity)

Dimensions

pT-100 Light Source: 66mm (diameter) x 128mm (l) / Weight 0.42kg
pT-100 Control Pod: 102mm(w) x 110(d) x 50mm(h) / Weight 0.55kg
pT-100 power supply: 55mm(w) x 95mm(d) x 40mm(h) / Weight 0.19kg

To Order

pT-100-XXX-YYY-ZZ: pT-100 direct fit Light Source, interchangeable microscope adaptor to customer specified microscope, remote manual control pod, and power supply.

To specify wavelength (XXX): WHT, 525, 635, 770.
 To specify microscope adaptor (YYY), see Adaptors (<https://www.cooled.com/product-detail/adaptors-new/>)
 To specify power cable (ZZ): 10 = Australia, 20 = Europe, 30 = UK, 40 = USA

Warranty: 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
- Long lifetime
- No bulb replacements
- Quiet operation
- No special disposal regulations
- ⚠ Reduced risk of eye damage. Care should be taken when viewing samples using the microscope eyepiece while the transmitted light source is switched on. Users should select the lowest intensity setting on the pod before using the eyepiece and increase intensity as necessary.



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

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