

NO MORE MERCURY!

NEW

CoolLED



LED Illumination for Fluorescence Screening

- Saves money
- Fast Payback
- Instant On/Off
- 0-100% intensity control
- Simple to fit, simple to use
- Long stable lifetime
- No bulb monitoring or changing
- Compact/small footprint
- No warm up or cool down
- No disposal issues



Fits all
microscopes



Long lifetime



Intense



Economical



Quiet
operation



Intensity
control



Environmentally
friendly



No More
Mercury

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

ACCU-SCOPE®

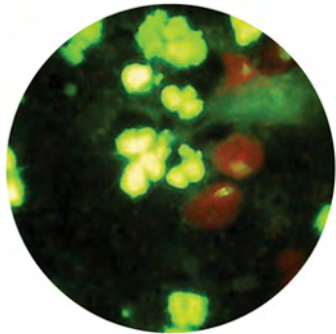
73 Mall Drive • Commack, NY 11725
631-864-1000 (P) • 631-543-8900 (F)
www.accu-scope.com
info@accu-scope.com

www.CoolLED.com

Replace your Mercury lamp with a pE-100

Select the single wavelength pE-100 to match your fluorophore and test

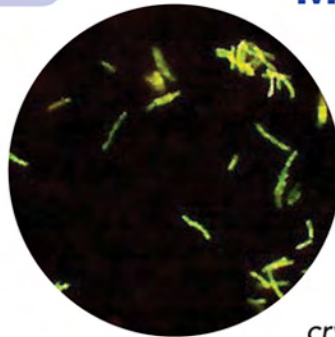
Examples of tests using the CoolLED pE-100



BACTERIOLOGY

A typical test would be for *Trichomonas vaginalis*.

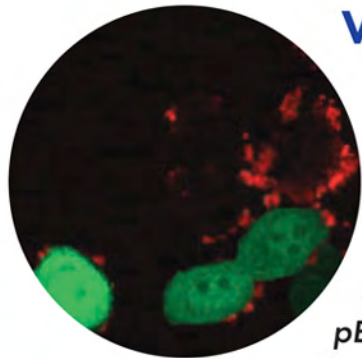
For testing with Acridine Orange select a pE-100 at 470nm



MYCOBACTERIA

A typical test would be for tuberculosis (TB), and other acid fast bacilli (AFBs).

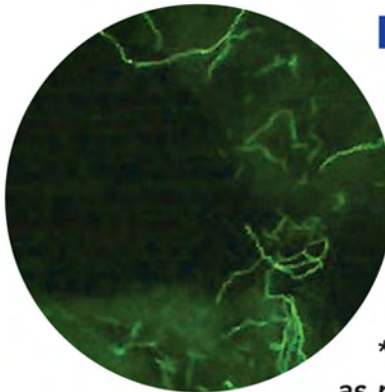
For testing with Auramine stains select a pE-100 at 470nm. (Similar staining can also be used for cryptosporidium)



VIROLOGY

A typical test would be for RSV or parainfluenza.

For testing with Fluorescein Isothiocyanate (FITC) select a pE-100 at 470nm



MYCOLOGY

A typical test would be for fungal mycelium/elements.

For testing with Calcofluor White select a pE-100 at 400nm*

*Also available at 365nm as required



Contact us with details of your test and we can advise a suitable pE-100 unit



Fits all
microscopes

Including:
ACCU-SCOPE
LEICA
LEITZ
MOTIC
NIKON
OLYMPUS
ZEISS

Most microscopes, old and new, are compatible with CoolLED's pE-100 series LED illuminators.

A current list of microscope fittings can be found on our website. Contact CoolLED with details of your microscope if you cannot find a suitable fitting on the list.

YOU CAN COMBINE TWO pE-100s FOR MULTIPLE TESTING



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pE-100 – Investment & Payback Calculations

1. Purchasing new light source – Costs for operating over 5 years

Product	Investment	Hours usage / week	Hours usage / year	Bulb life / hours	Number of bulbs / year	Cost of Bulbs	Total cost of bulbs	Total Investmet	Saving with pE-100
100W Hg	\$3,000.00	40	2000	200	10.00	\$200.00	\$2,000.00	\$5,000.00	\$3,100.00
pE-100	\$1,900.00	40	2000	10000	n/a	\$0.00	\$0.00	\$1,900.00	n/a

2. Existing light source – Payback period to recover cost of pE-100

Product	Investment	Hours usage / week	Hours usage / year	Bulb life / hours	Number of bulbs / year	Cost of Bulbs	Annual cost of bulbs	Cost of pE-100	Payback / months
100W Hg	n/a	40	2000	300	6.67	\$200.00	\$1,332.00	\$1,900.00	17

CoolLED pE-100:

- Instant On/Off
- Intensity Control
- Fits all microscopes
- Compact / Small Footprint
- No alignment
- No hazardous materials
- Environmentally-friendly
- No bulbs to monitor or replace

• No More Mercury!



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1 Select by Fluorophore OR Select by Wavelength

Select by Fluorophore >>

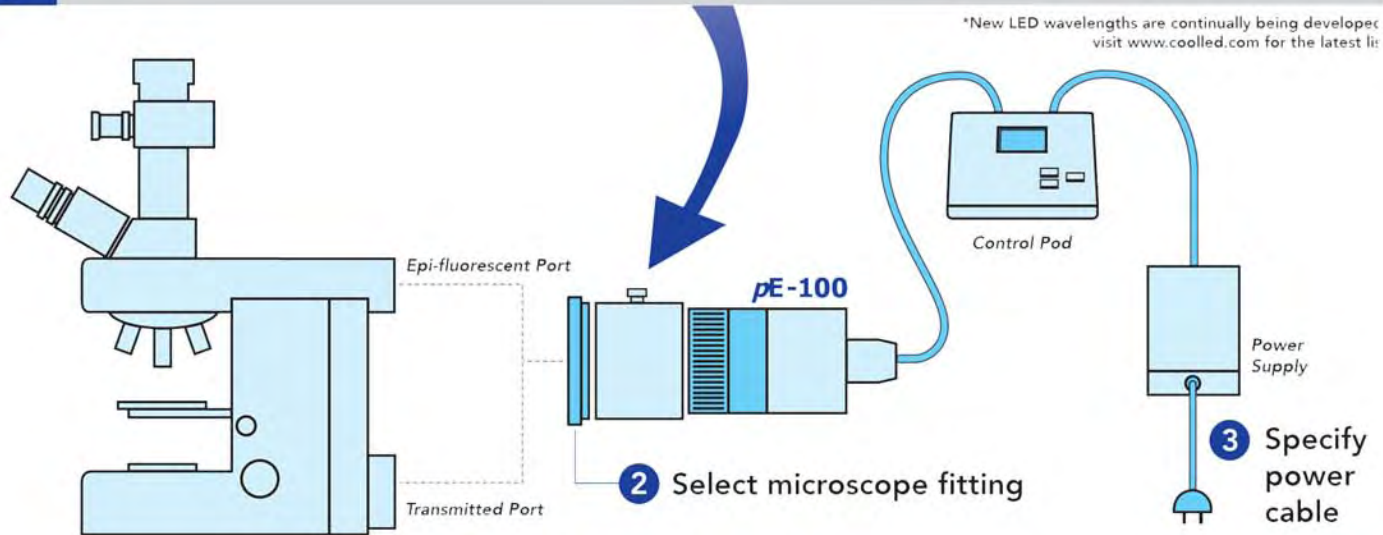
*CoolLED recommended wavelength for that fluorophore based on common filter sets

Fluorophore	LED	Fluorophore	LED	Fluorophore	LED
Acridine	470	mCherry	565	GFP	470*
Alexa 488	490	mCherry	585*	GFP	490
Alexa 488	470*	Cy3	535	Hoechst	365
Alexa 594	595	Cy3.5	550	Indo-Cyanine Green	770
Alexa 594	585*	Cy5	635	Pacific Blue	400
Alexa 660	660	Cy7	700	mRFP	550
Auramine	470	DAPI	365*	Texas Red	565
Calcofluor White	365	DAPI	400	TRITC	535
Calcofluor White	400*	FITC	470*	YFP	490
CFP	440	FITC	490	YFP	500*

Select by Wavelength >>



*New LED wavelengths are continually being developed visit www.cooled.com for the latest list



Specify your pE-100

244-87-XXX-YYY-ZZ

XXX = Wavelength

365, 380, 400, 425, 440, 470, 490, 500, 525, 535, 550, 565, 585, 595, 615, 635, 660, 700, 740, 770, WH1(white)

YYY = Microscope fitting

Due to the wide range of microscopes which are compatible with CoolLED pE-series LED illumination, a constantly updated list of suitable fittings can be found at:
www.cooled.com/Life-Sciences-Analytical/Products/Microscope-Adaptors

ZZ = Power cable

10 - Australia
20 - European
30 - UK
40 - USA

Optional item: 244-2820 - BNC-BNC cable for TTL trigger

eg. 244-87-470-50E-30 is a pE-100 with 470nm excitation (GFP) for an Olympus CKX41 microscope with a UK-style power cable



CoolLED pE-100 excitation source

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Select by
Fluorophores »

*CoolLED recommended wavelengths for that fluorophore based on common filter sets

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Alexa 660	660	Cy7	700	mRFP	550
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Calcofluor White	365	DAPI	400	TRITC	535
Calcofluor White	400*	FITC	470*	YFP	490
CFP	440	FITC	490	YFP	500*

Select by
Wavelengths (λ) v

