

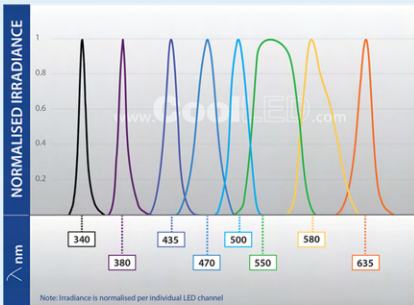
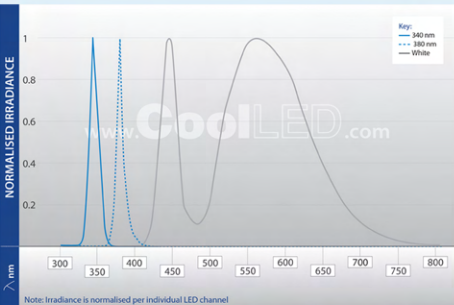


LED Microscopy Illumination for Neuroscience

CoolLED
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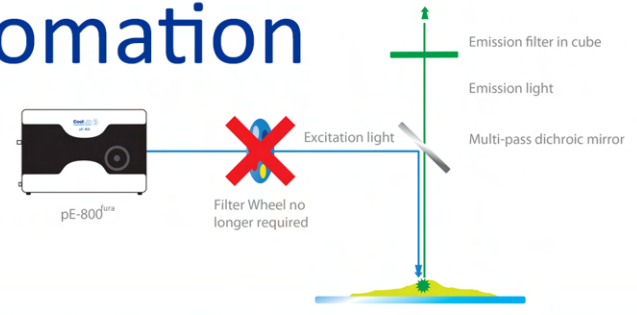


Supercharged Calcium Imaging and Beyond

<p>Illumination System</p>	<p>pE-800^{fura}</p> 	<p>pE-340^{fura}</p> 
<p>LED Spectrum</p>	 <p>8 individually controllable LED channels</p>	 <p>3 individually controllable LED channels</p>
<p>Applications</p>	<p>Fura-2 & other calcium indicators; optogenetic stimulation; pH monitoring; FRET; everyday fluorescence (e.g DAPI, FITC, TRITC)</p>	<p>Fura-2 & everyday fluorescence (e.g DAPI, FITC, TRITC)</p>
<p>Control Features Include</p>	<p><7 μs TTL triggering & inline filter holders; for high temporal resolution; analogue, USB and RS-232</p>	<p>20 μs TTL triggering & inline filter holders; for high temporal resolution; USB and RS-232</p>

Achieve Affordable Automation

Transform a manual microscope into a powerful automated imaging system thanks to inline filters and the innovative Sequence Runner, which triggers automated excitation sequences with just a single TTL-out of a camera or external hardware.



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LED Microscopy Illumination for Neuroscience

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Everyday Optogenetics and Imaging

- Fast, precise illumination
- Connect to electrophysiology rig & other hardware via TTL inputs
- Light delivery via direct fit (maximum irradiance) or light guide (no electrical noise)

Illumination System	<p>pE-400^{max}</p>  	<p>pE-300^{ultra}</p>  	<p>pE-300^{white}</p>  
Individual LED Channels	4	3	3
Fluorophore/Opsin Range	DAPI-Cy5 (including YFP)/ ChR2- ChrimsonR	DAPI-Cy5 / ChR2- ChrimsonR	DAPI-Cy5/ ChR2- ChrimsonR
Control Features Include	Individual channel TTL (10 μ s), Sequence Runner & inline filter holders for speed; USB; manual control pod	Individual channel TTL (20 μ s), Sequence Runner & inline filter holders for speed; USB; manual control pod	Global TTL (20 μ s). USB; manual control pod

Universal Illuminator: pE-4000

Broadest illumination spectrum available

- With 16 LEDs spanning 365-770 nm over four channels
- TTL and analogue inputs & outputs



Transmitted Illumination: pT-100 770 nm

Narrow bandwidth illumination for high-contrast imaging of thicker samples

- Ideal for IR-DIC
- High-speed TTL control reduces exposure time



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