

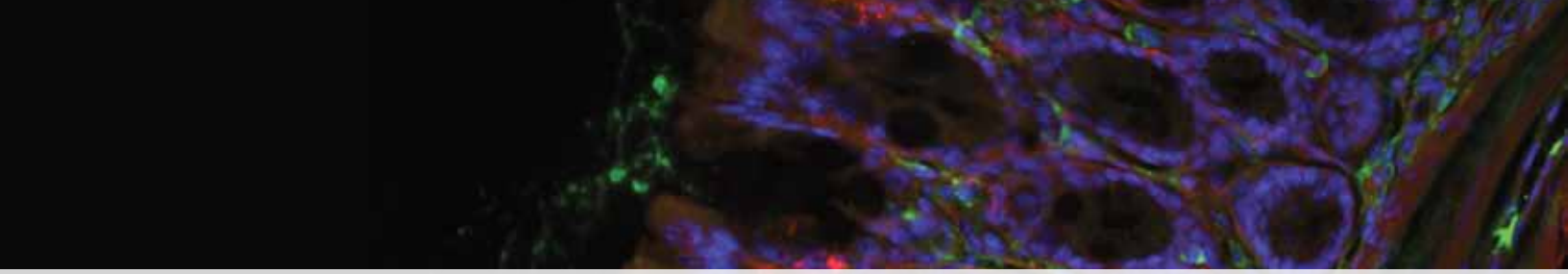


Advanced LED Illumination for Fluorescence Microscopy

X-Cite[®] XLED1

Delivering maximum power at the sample plane with unsurpassed control and speed for live cell imaging

- Optimized excitation with high power LED illumination *at the sample plane*
- Instant switching between wavelengths; ideal for multi-color live cell imaging
- High-speed automated imaging with advanced internal pulse generator and external triggering options
- Ease of use through an interactive touch screen controller and intuitive user interface



What XLED1 offers...	How researchers benefit.
High power at the sample plane (385nm, 460nm, 525nm, optional 635nm)	Increased excitation power where it matters most to excite/uncage fluorophores – at the sample
Narrow LED bandwidth	High signal to noise ratio; reduces crosstalk between fluorophores leading to high signal specificity
Instantaneous wavelength switching	Enables fast multi-color image acquisition and pulsing applications (down to 10µs)
Fast ON/OFF	Eliminates vibration and latency of mechanical shutters, allowing precise, short exposure times to limit photobleaching and phototoxicity
Advanced triggering and pulsing options	Flexibility with experimental design and system control
Plug and play user-replaceable modules	Easy reconfiguration for new experiments
Optimized X-Cite® adaptors	High efficiency coupling to a wide variety of microscopes currently available with X-Cite® products
Uniform and stable illumination	Reliable and consistent image data
Interactive touch screen and intuitive user interface	Ease of use; no advanced training required
Intelligent controller with automatic LED detector	Verifies system set-up and ensures worry-free module exchange
0.1% intensity control increments	Repeatable illumination and optimal imaging

Key features include:

Advanced Triggering and Pulse Options

- Internal (Pulse Generator) and External (TTL); User-defined per channel (minimum duty cycle 10µs, maximum 18 hours)
- User-defined, free-running or single shot pulse modes for programmed multi-color imaging (delayed start, ON and OFF times)
- Global trigger input to control all wavelengths at once and sync-out with delay options

Wavelength Switching

- Instant switching between wavelengths
- Pulsing single wavelength – 10µs

Intelligent Controller

- Seven inch touch screen display with adjustable intensity and incline
- Easy to use and intuitive interface
- Programmable user profiles and ability to save custom settings for future use
- Ultra-fine LED intensity control 5-100%, in 0.1% increments via slider or arrow adjustment, or by entering a numerical value
- System maintenance and module recognition
- Virtual oscilloscope plots LED and trigger waveforms
- Flexibility in renaming wavelengths to fluorophore of choice



光技術をサポートする
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