

X-Cite®

Fluorescence Illumination • In Control

X-Cite 120LED Boost

LED Illumination - More Powerful Than Ever

Performance. Precision. Reliability.

High power, broad-spectrum fluorescence excitation

Exceptional field uniformity at the specimen

Instant ON/OFF without mechanical shuttering

More powerful than the original X-Cite® 120LED

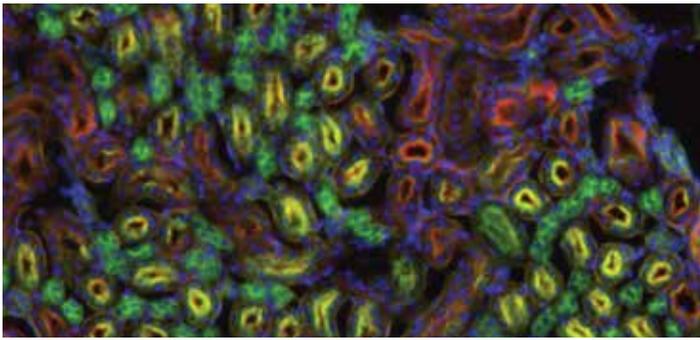
Long-life, zero maintenance technology

Quiet, vibration-free thermal management

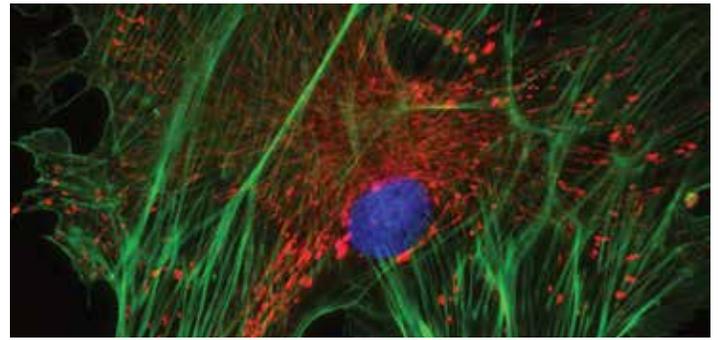


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EXCELITAS
TECHNOLOGIES®



Mouse kidney section stained with DAPI, Alexa Fluor® 488 WGA and Alexa Fluor® 568 phalloidin.



BPAE cells labeled with MitoTracker® Red CMXRos, Alexa Fluor 488 phalloidin and DAPI.

X-Cite® 120LEDBoost is more powerful than ever and efficiently excites a greater range of fluorophores. Even the popular red fluorophores are no challenge for the X-Cite 120LEDBoost.

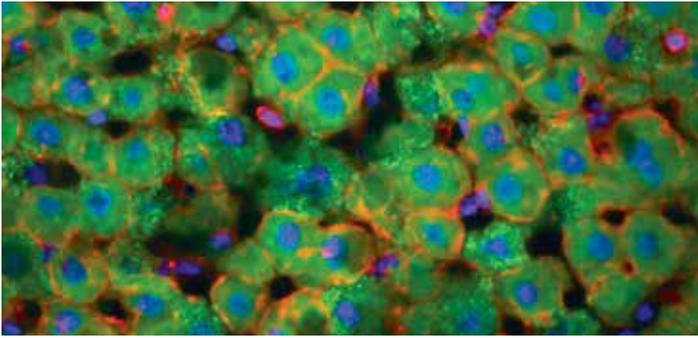
Simple and Intuitive

The X-Cite 120LEDBoost redefines ease and convenience in fluorescence excitation. Designed with intuitive controls and no bulbs or modules to install, set-up and operation has never been simpler. With LEDs rated to 25,000 hours and the elimination of consumable components, the X-Cite 120LEDBoost lets researchers focus on their experiments instead of equipment maintenance.

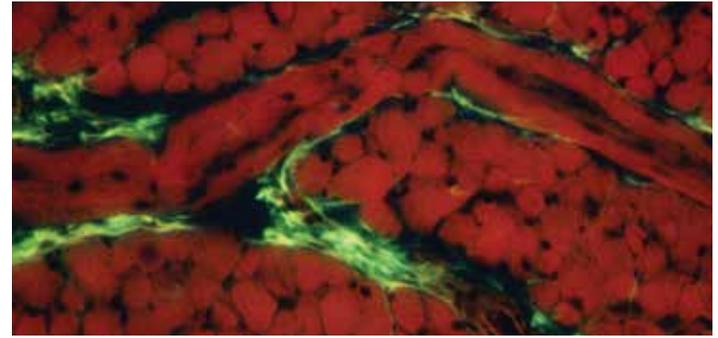
Versatile

X-Cite 120LEDBoost is the ideal mercury-free choice for typical fluorescence imaging applications. The X-Cite 120LEDBoost provides high-power, broad-spectrum fluorescence excitation from 370-700nm, catering to a wide range of popular fluorophores and fluorescent proteins, including strong excitation for the traditionally challenging mCherry wavelengths. Highly-engineered direct coupling optics ensure bright, uniform illumination on microscopes from all major manufacturers.





Liver section stained with Hoechst (blue), Alexa488 laminin (green), Cy3 Actin (orange) and Cy5 tubulin (red).



Tongue autofluorescence.

Direct Coupling Without Vibration

The innovative thermal management design of the X-Cite 120LEDBoost allows direct coupling to the microscope for maximum power without adding mechanical vibration. Electronic shuttering provides sub-millisecond operation while avoiding the vibration and failure risk of mechanical shutters.

Electronic Shutter and Silent Thermal Management

Fanless, high output LED head design and lack of shutter noise make for virtually silent operation, providing an optimal work environment for microscopists, while at the same time allowing for maximum precision in vibration-sensitive imaging experiments.

Multiple Control Options for Maximum Flexibility

X-Cite 120LEDBoost offers complete automation for multi-day time-lapse experiments and simple ergonomic manual control via speedDIAL. Take full advantage of LED instant ON/OFF capability to limit photobleaching and phototoxicity with ultra-fast PC control or TTL triggering. X-Cite 120LEDBoost can be driven by commercial imaging software, and an SDK is available for developing customized control solutions.

Ergonomic Fingertip Control

X-Cite 120LEDBoost's ergonomic speedDIAL can be placed where it is most comfortable for individual users. With a large speed-sensitive intensity dial that doubles as an ON/OFF button, controlling illumination is quick and intuitive. Always know the current intensity setting regardless of room lighting conditions via speedDIAL's backlit display. Quickly jump to a favorite intensity setting with a double-tap on speedDIAL.



Ready When You Are!

With instant-on capability, X-Cite 120LEDBoost is ready to use within seconds, giving researchers the freedom to set the schedule. Whether fluorescence is required occasionally, daily or continuously, X-Cite 120LEDBoost will be ready.

“ The X-Cite 120LEDBoost provides accurate FRET measurements and works well with all of our fluorophores. We find it bright, uniform and easy to use. ”

Dr. Ammasi Periasamy

W.M. Keck Center for Cellular Imaging
University of Virginia, USA



Trachea section stained with Hoechst and Alexa Fluor 488 laminin.

X-Cite 120LEDBoost System includes:

- X-Cite 120LEDBoost Head
- X-Cite 120LEDBoost powerCUBE
- X-Cite 120LED speedDIAL
- Your choice of microscope flange
- Accessory kit (hex key, quick start guide, USB cable, power cord)

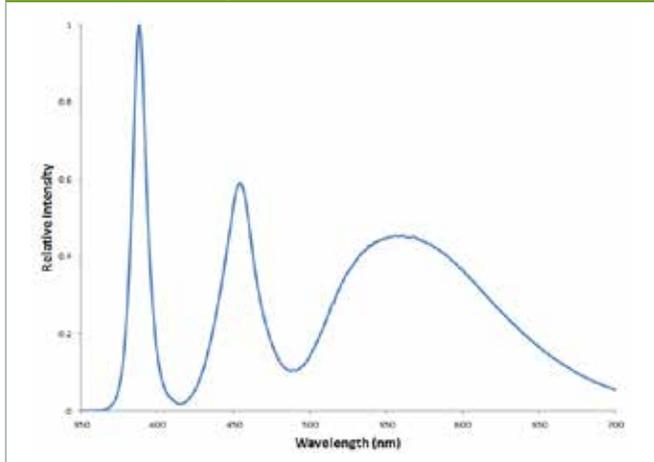


TECHNICAL SPECIFICATIONS • X-Cite 120LEDBoost

Wavelength Range	370-700nm		
Power Supply	Universal input 100-240VAC, 50/60Hz		
Power Consumption	230W		
LED ON/OFF Response Times	50µs TTL 1ms USB		
Control Options	Manual – speedDIAL (1% increments) TTL compatible – BNC input RS-232 commands (SDK available) USB		

	powerCUBE	LED Head	speedDIAL
Height	213mm (8.4")	116mm (4.6")	59mm (2.3")
Width	173mm (6.8")	90mm (3.5")	80mm (3.1")
Depth	260mm (10.2")	166mm (6.5")	112mm (4.4")
Weight	4.8kg (10.6lbs)		0.3kg (0.7lbs)
Certifications	CE marked; certified to IEC, Canadian and US standards; RoHS compliant		
Warranty	LEDs – 25,000 hours (or 3 years); all other X-Cite 120LEDBoost components 1 year, parts and labor		

X-Cite 120LEDBoost Spectra



Images courtesy of: cover – Dr. Kavita Aswani, Excelitas Technologies Corp.; inside – James Jonkman, University Health Network, Toronto and Dr. Kavita Aswani, Excelitas Technologies Corp.; back – Dr. Kavita Aswani, Excelitas Technologies Corp.



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