

X-Cite®

Fluorescence Illumination • In Control

X-Cite mini+™

Compact, High Power
LED Illumination

Performance. Value. Reliability.

Compact, broadband LED light source for fluorescence
imaging applications

Direct-coupled, high power illumination

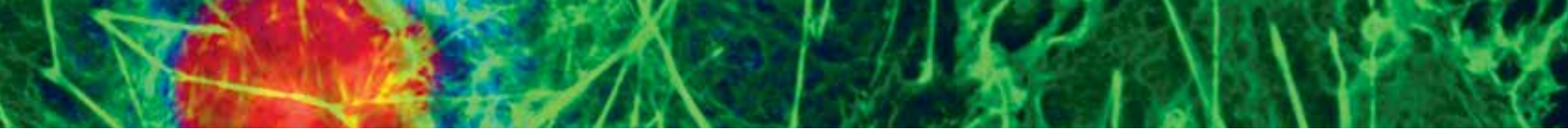
Quiet operation

Zero maintenance and mercury-free



www.excelitas.com

EXCELITAS
TECHNOLOGIES®



X-Cite mini+™ is the new go-to white light LED light source for fluorescence imaging applications. High power performance, compact size and air-cooled, the X-Cite mini+ is the perfect choice for clinical labs and facilities looking for a cost-effective solution.

Powerful

Improved LED technology allows the X-Cite mini+ to provide more power to the sample plane than our previous direct-coupled systems. With one compact, air-cooled system, the X-Cite mini+ provides the output power of higher-end illuminators at a fraction of the cost.

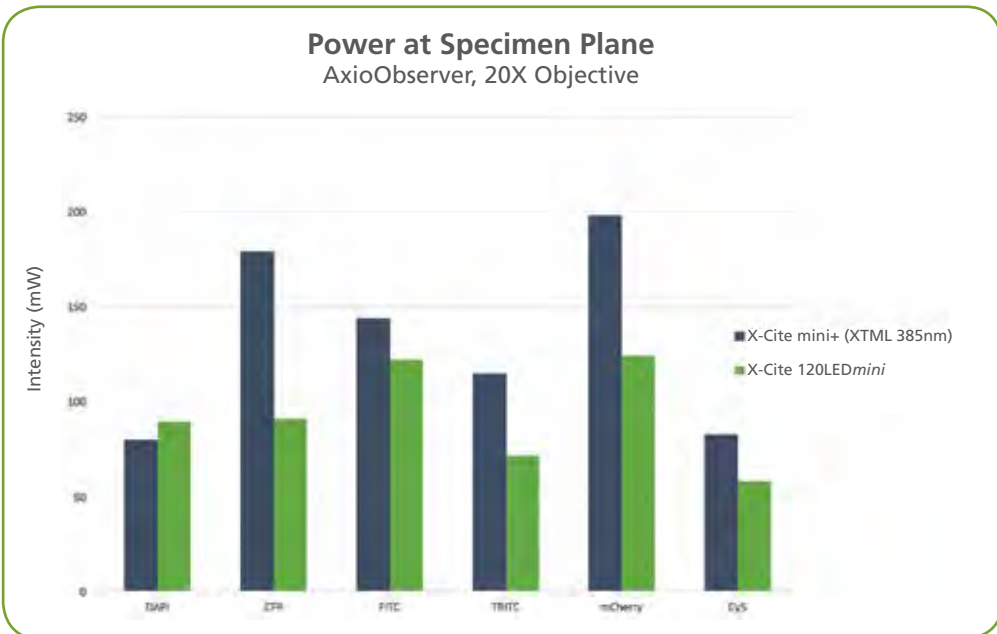
Built-in Control Options

The X-Cite mini+ includes manual fingertip control with speedDIAL, hands-free operation with a foot pedal, as well as USB and TTL inputs for automated applications.



Flexible UV Options

The X-Cite mini+ leverages the latest industry advancements to offer two choices of UV excitation. The XTML model features a 385nm LED, which matches the UV output of its predecessor, for a simple drop-in replacement solution. The XTMS model includes a powerful 365nm LED compatible with standard narrow DAPI filter sets, making it an ideal replacement for mercury sources. For those who never or rarely need UV excitation, X-Cite mini+ can be set to "UV off" with a few clicks of speedDIAL.



Power comparison at specimen plane using standard filter cubes. X-Cite mini+ exceeds the performance of X-Cite 120LEDmini across the visible spectrum.

Zero Maintenance Costs

X-Cite mini+ is a direct-coupled LED system with a 20,000 hour warranty. This means no lamps to change, no mercury disposal fees, and no light guides to replace - ever!

Low Energy Consumption

With energy-efficient LEDs and the advantage of instant ON/OFF to minimize power consumption, the X-Cite mini+ fits into any research lab's "go-green" strategy.

Potential Cost and Energy Savings with X-Cite mini+

Table 1: Cost of Ownership (per 20,000 hours of "ON time")

| | HBO | X-Cite 120Q | X-Cite mini+ |
|--|-----------------|----------------|--------------|
| Replacement Lamps | 100 | 10 | - |
| Lamp Costs | \$15,000 | \$6,250 | - |
| Replacement Light Guides | - | 5 | - |
| Light Guide Costs | - | \$1,975 | - |
| Bulb Disposal (\$5/bulb) ¹ | \$500 | \$50 | - |
| Maintenance Costs (bulb, \$20/hr) ² | \$1,000 | \$17 | - |
| TOTAL | \$16,500 | \$8,292 | \$0 |

Notes:

1. Mercury-Free Microscopy white paper www.mygreenlab.org.
2. Assumes 30 min to change/align HBO lamp, 5 min for X-Cite 120Q.

Table 2: Energy Consumption (per day)

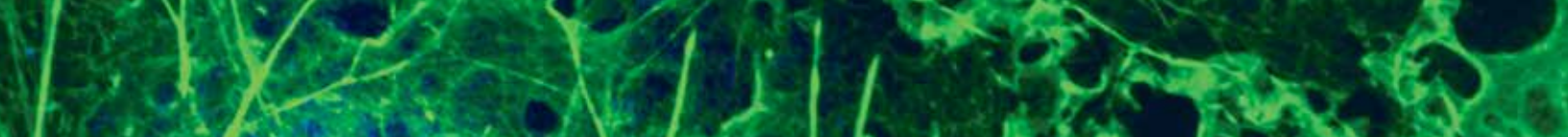
| | HBO | X-Cite 120Q | X-Cite mini+ |
|--|----------------|----------------|---------------|
| ON Time ¹ | 8 Hours | 8 Hours | 1 Hour |
| Lamp Lifetime Used | 4% | 0.4% | 0.005% |
| Energy Used ² | 1.24 kWh | 1.92 kWh | 2.4kWh |
| Electricity Cost (per day) (\$0.15/kWh) ³ | \$0.19 | \$0.29 | \$0.04 |
| Electricity Cost (per year)⁴ | \$46.50 | \$72.00 | \$9.00 |

Notes:

1. Assumes 8 hour day, 4x15 min imaging sessions. Arch lamps left on for the day and LEDs on continuously during each session.
2. Calculated based on published technical specifications.
3. Typical rate. Actual rates will vary by region and/or time of day.
4. Assumes a 5 day week x 50 weeks.

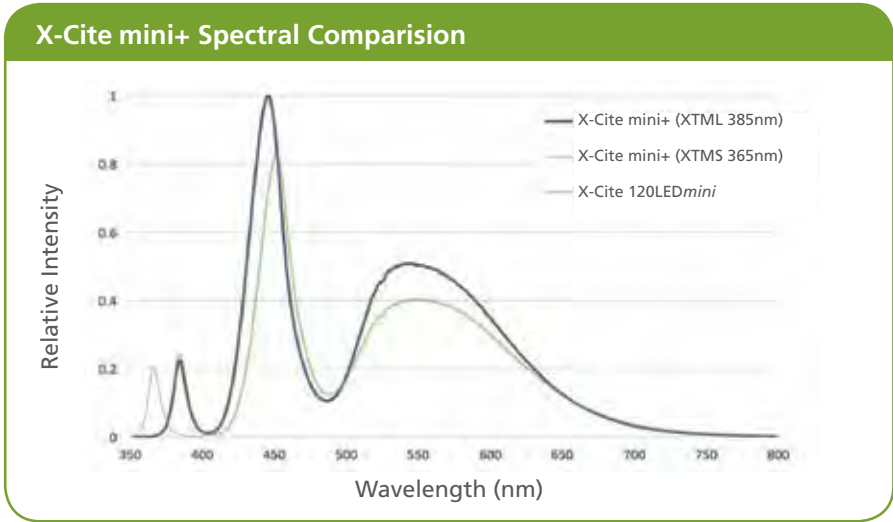
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no mercury disposal fees,
and no light guides to
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| Features | Benefits |
|------------------------------|---|
| LED Technology | Efficiency, stability, instant ON/OFF and long lifetime |
| White Light Excitation | Excitation of commonly used fluorophores such as DAPI, CFP, GFP/FITC, YFP, mCherry/Texas Red, and Cy5 |
| Direct Coupled | High power excitation |
| Multiple Control Options | Simple operation through USB, TTL or speedDIAL |
| Small Footprint | Minimal space requirement; less bench top real estate required |
| Optimized Thermal Management | Maximum LED output, lifetime, stability and reliability |
| X-Cite Coupling Optics | Efficient optical output and uniformity with highest performing coupling optics |

| Technical Specifications | |
|---------------------------|--|
| Includes | X-Cite mini+™ Head, miniCube, speedDIAL, microscope flange, accessory kit |
| Wavelength Range | Model: XTMS: 360-700nm Model: XTML: 380-700nm |
| External Power Supply | Universal input 100-240VAC, 50/60Hz |
| Current | 2.4-1.2A |
| LED ON/OFF Response Times | 100µs TTL / 1ms USB |
| Control Options | ON/OFF - TTL compatible, speedDIAL, RS-232 commands (SDK available), USB |
| I/O Connections | BNC input, USB (B-type), 3.5mm stereo plug |
| Dimensions - HEAD | 100mm x 135mm x 110mm (W x H x D) |
| Dimensions - CONTROLLER | 180mm x 110mm x 230mm (W x H x D) |
| Dimensions - speedDIAL | 80mm x 59mm x 112mm (W x H x D) |
| Weight | 3.4 kg (7.5 lb) |
| Certifications | RoHS, CE |
| Warranty | LEDs – 20,000 hours, All other X-Cite mini+ components - 1 year, parts and labor |



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