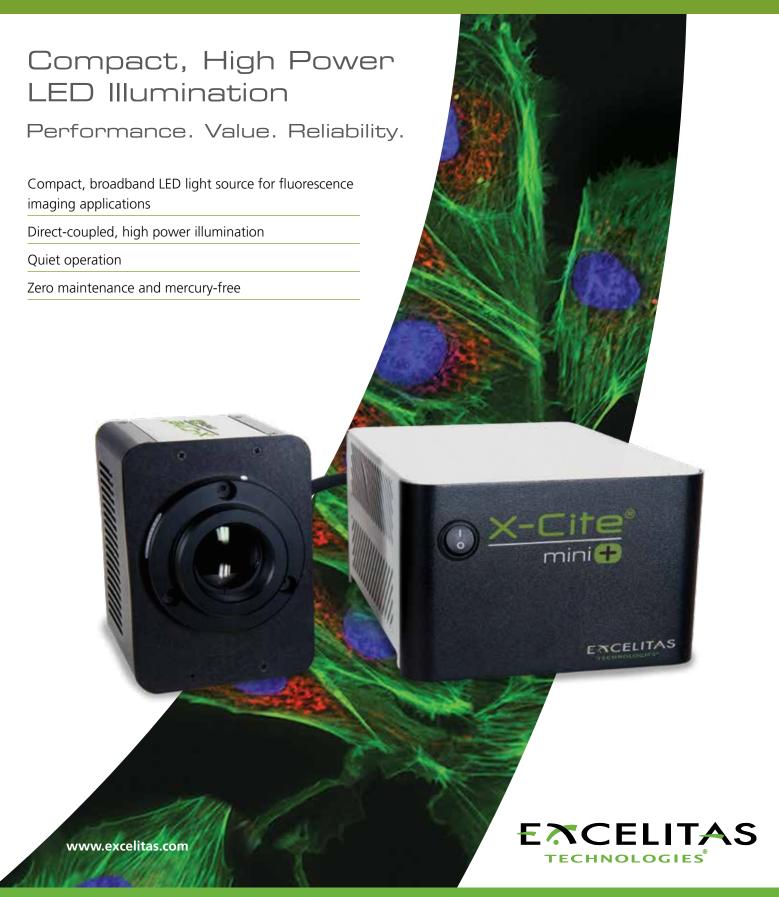


# X-Cite mini+™



X-Cite mini+<sup>™</sup> 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.

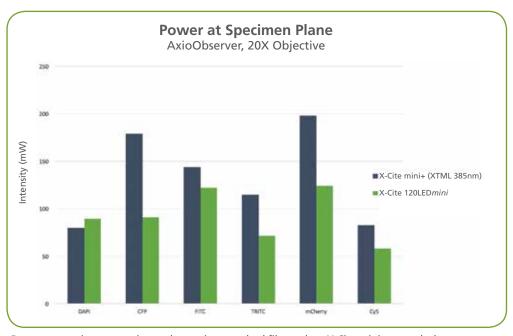
## **Built-in Control Options**

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 120LED*mini* 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")

	НВО	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) <sup>1</sup>	\$500	\$50	-
Maintenance Costs (bulb, \$20/hr) <sup>2</sup>	\$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)

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

#### Notes

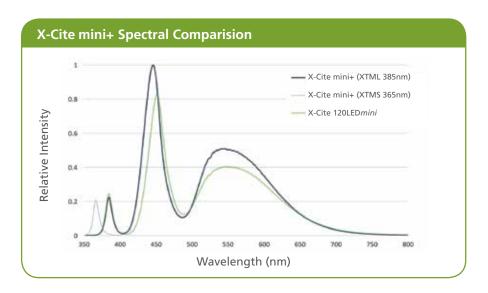
- 1. Assumes 8 hour day, 4x15 min imaging sessions. Arch lamps left on for the day and LEDs on continuously during each session.
- 2. Calculated based on published technical specifications.
- 3. Typical rate. Actual rates will vary by region and/or time of day.
- 4. Assumes a 5 day week x 50 weeks.

No lamps to change, no mercury disposal fees, and no light guides to replace - ever!



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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