

X-Cite[®] 120q & X-Cite[®] 120PC q

The Standard in Fluorescence Illumination

Pre-Aligned Intelli-Lamp[®] System

2000-Hour Lamp Life Warranty

No Heat Transferred to Microscope

Superior Illumination Uniformity

The X-Cite[®] series has been engineered specifically to let you focus your energy where it belongs – on the best possible results. With the X-Cite[®] 120Q and 120PC Q you get all the convenience and control of the original X-Cite[®], but now with even quieter operation.



LUMEN DYNAMICS
PUTTING YOU IN CONTROL

X-Cite[®]
SERIES 120 Q

X-Cite® 120Q & X-Cite® 120PC Q

The Evolution of Fluorescence Illumination Technology

The Preferred Choice of Life Science Researchers

With more than 10,000 units installed worldwide, the unique X-Cite® Intelli-Lamp® technology is the illumination standard in leading edge research. In renowned university imaging laboratories, clinical hospital applications, pharmaceutical research and diagnostic testing, X-Cite® is the preferred choice.

Quietest X-Cite® Ever

We have taken your requests for a more comfortable working environment seriously. We have made improvements to our design to reduce acoustic noise without sacrificing performance or reliability. With a 65% (9dB SPL) reduction*, the X-Cite® 120Q and X-Cite® 120PC Q are now the quietest X-Cite®s ever!

Patented Intelli-Lamp® Technology

At the heart of the X-Cite® system is our unique Intelli-Lamp® technology.

Long-life Lamp - Guaranteed!

With a 2000-hour warranty and a typical lamp life of over 2500 hours, the powerful 120W X-Cite® lamp has ten times the life span of a conventional mercury lamp, saving you time and reducing operating costs.

Hot-Strike Prevention

Hot strikes shorten lamp life and cause premature intensity degradation. The Intelli-Lamp® continually monitors lamp temperature, preventing restrikes until the lamp cools to a 'safe-to-restart' state.

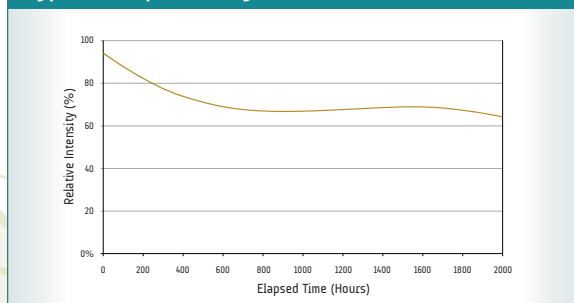
Intensity Adjustment

X-Cite® is available with a built-in 5-step iris for adjusting intensity to optimize specimen illumination and to help minimize photobleaching of fluorophores. With settings of 100%, 50%, 25%, 12%, and 0%, this is a standard feature of the X-Cite® 120PC Q and optional for the X-Cite® 120Q.

PC Control

X-Cite® 120PC Q has the added flexibility of being both manual and computer controllable. The straightforward RS232 command set easily allows integration into automated systems and commercially available imaging software platforms.

Typical Lamp Intensity Over Lifetime for X-Cite® 120Q

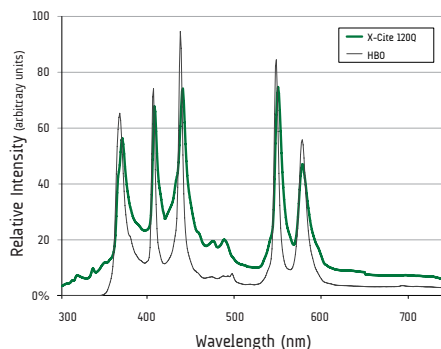


A Rich Spectrum and a Bright Idea

Experience the rich spectral excitation provided by the X-Cite® Intelli-Lamp®.

The powerful 120W lamp used in the X-Cite® 120Q provides excitation intensity comparable to, or better than, conventional mercury arc lamps, with an added benefit: the richer spectrum excites more fluorophores.

Relative Output X-Cite® 120Q vs. HBO 100



X-Cite® - A Trusted Product Family

Whether you are observing fixed or live cells, the X-Cite® fluorescence illuminator technology will simplify your imaging procedures and provide outstanding results.

The X-Cite® Power Measurement System measures optical power where it matters most – at the objective plane. With consistent illumination levels, reproducible results can be ensured and increase the integrity of your research.

The X-Cite® pre-aligned Intelli-Lamp® technology provides extended lamp life, convenient set-up, ease of use, and superior illumination uniformity.

From our basic X-Cite® 120Q model for routine assays, to our most advanced X-Cite® *exacte* computer-controlled system delivering ultra-stable and repeatable illumination for live cell and quantitative imaging, there is an X-Cite® solution that is right for you.

For further details on the full range of X-Cite® products visit our website at www.LDGI-XCite.com.

Optimized Microscope Adaptor Optics

X-Cite® adaptor optics are designed and tested specifically for each microscope model to optimize intensity and provide superior illumination uniformity. With a wide selection of adaptors available, X-Cite® is compatible with all major microscope brands.

Pre-Aligned & Focused - Easier to Install

The days of difficult and cumbersome lamp changes and alignments are behind you. The X-Cite® adaptor attaches easily onto your existing microscope light port, and when the bulb needs changing, simply remove the old one and snap the new one in place – it's that easy.

Heat and Vibration Reduction

The X-Cite® unit connects to your microscope with a liquid light guide. Remote placement of the unit ensures that no heat or vibration is transferred to the microscope and allows you to optimize valuable workspace.

Safety First

All X-Cite® products are designed with safety in mind, from the safety interlock switches and light shields to help protect against accidental UV/bright light exposure to meeting strict international safety standards for laboratory equipment.



| FEATURES | BENEFITS |
|---|---|
| Pre-Aligned Lamp | Easy lamp replacement - no alignment required |
| 2000 Hour Lamp Life, Guaranteed | Fewer lamp replacements saves time and reduces operating costs |
| Intelli-Lamp® Technology | Maintains optimum lamp temperature, automatically accumulates lamp hours |
| Light Guide Attachment | No heat or vibration from the X-Cite® is transferred to the microscope Allows for remote placement of unit |
| Powerful 120W Lamp | Rich spectrum with high excitation intensity |
| Coupling Adaptor Optics | Uniformly illuminated field of view Available for all major microscope brands |
| Adjustable Iris (100%, 50%, 25%, 12%, 0%) | Adjust light intensity to optimize specimen illumination and minimize photobleaching |

Additional Features on X-Cite® 120PC Q model only

| | |
|---|---|
| RS232 Communication | PC control of lamp, iris and shutter; integratable with automated systems and commercially available imaging software platforms |
| Software Interface | Simple to use for remote operation and diagnostics |
| Shutter (200ms response time) and Timer | Control sample exposure time, minimize photobleaching |
| Foot Pedal Shutter Control | Convenient hands-free operation |

SPECIFICATIONS

| | X-Cite® 120Q | X-Cite® 120PC Q |
|--------------------------|---|--|
| Includes | Lamp module, liquid light guide with adaptor, grounded and shielded power cord and manual | Lamp module, liquid light guide with adaptor, software CD, grounded and shielded power cord, 9-pin serial cable, manual and quick start guide |
| Lamp | Proprietary 120W Mercury Vapor Short Arc | |
| Lamp Life | 2000 hours guaranteed; 2500 hours typical | |
| Power Supply | High efficiency, switch mode, line isolated, 90-264 VAC, 47-63 Hz, universal input | |
| Warm-Up Period | 90 seconds (typical) | |
| Panel Controls | Power on/off Intensity adjustment (if applicable) | Power on/off, mode select, adjust up/down, start/stop |
| Panel Displays | Accumulated lamp hours, lamp status messages | Iris setting (100%, 50%, 25%, 12%, 0%), accumulated lamp hours, exposure time (0.2-999.9 sec), lamp on, shutter open, lamp/ shutter status messages |
| Weight | 6.7 lbs. (3.04 kg) | 7 lbs. (3.18 kg) |
| Dimensions | L x W x H: 13.5" x 5.5" x 6.5" (34.5 cm x 14 cm x 16.5 cm) | |
| Worldwide Certifications | CE Marked, Certified to IEC, Canadian and US Standards | |
| Warranty | 1 year (excluding lamp and light guide) | |



Hg-LAMP CONTAINS MERCURY, Manage in Accord with Disposal Laws, see www.lamprecycle.org or +1 800 668-8752

Lumen Dynamics Group Inc. is certified under the globally recognized ISO 9001 Quality Management System and the ISO 14001 Environmental Management System. Our global customers can trust that Lumen Dynamics strives to be the best possible supplier in all aspects of our business.

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