

X-Cite[®] *exacte*

Ultra-Stable Fluorescence Light Source for Microscopy

The X-Cite[®] *exacte* ultra-stable fluorescence light source employs a DC-powered mercury lamp coupled with proprietary Closed-Loop Feedback technology to provide unmatched short and long-term intensity stability, for imaging protocols lasting from milliseconds to days. With the X-Cite Optical Power Measurement System, light output can also be calibrated in absolute power units (watts), ensuring truly repeatable fluorescence illumination for imaging experiments.

The **X-Cite *exacte*** microscope light source has the convenience of pre-aligned, long-life lamps and easy installation combined with innovative functions in the newest generation of mercury arc fluorescence illumination systems.

Features & Benefits

Software and Drivers

Specifications

Resources

Features

DC lamp with Closed-Loop Feedback

Calibration via optional **Power Meter**

Adjustable Iris with 1% steps

Internal High Speed Shutter

Liquid Light Guide

Automatic Light Guide Detection

Pre-aligned, 2000 hour lamp

Intelli-Lamp Technology

Computer Control & GUI

Benefits

Short and long-term intensity stability

Provides output in watts for consistent illumination and empirical repeatability

Intensity control limits photobleaching

Flexibility in configuring imaging systems for different applications

Excellent illumination uniformity, no heat transferred to microscope

Ensures proper/complete insertion of light guide to optimize performance and lifetime

Easy lamp replacement with no alignment required, lower running costs

Maintains optimum lamp temperature; tracks lamp hours

Enables computer-driven applications and stability data exporting

Featured Product Accessories

X-Cite Microscope Adaptors

X-Cite light sources connect to a microscope via a wide selection of coupling adaptors for optimized illumination intensity and uniformity.

X-Cite Light Guides

The X-Cite light sources connect to your microscope via a liquid light guide and a coupling adaptor.

X-Cite *exacte* and 200DC Replacement Lamp

The DC-powered mercury lamp used in the X-Cite *exacte* and X-Cite 200DC provides exceptional short and medium term intensity stability.

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- Features & Benefits
- Software and Drivers
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- Resources

Specifications

Fluorescence Microscopy Illumination System

X-Cite <i>exacte</i> Microscope Illumination System includes	Lamp module, liquid light guide with adaptor, software CD, foot pedal, USB cable, grounded and shielded power cord, user guide, quick-start guide
Lamp	200W Mercury Vapor Short Arc, DC
Lamp Life	2000 hours guaranteed; 2500 hours typical
Adaptors	Compatible with microscopes from all major manufacturers
Filter	Bandpass, 340-675nm
Power Supply	High efficiency, switch mode, line isolated 100-120VAC / 200-240VAC, 50/60Hz
Warm-up Period	4-minutes (typical)
Connectivity	RS-232 control via USB port; PC and Mac control of lamp, iris shutter; TTL control of shutter via BNC; ready for integration in automated system
Drivers	Base commands same as X-Cite 120PC; Build onto existing driver scripts to control X-Cite <i>exacte</i> .
Panel Controls	Power on/off, display mode selection, intensity up/down adjustment, Closed-Loop Feedback on/off, shutter open/close
Panel Display	Accumulated lamp hours, intensity setting, status messages
Panel Status Indicators	Lamp on, shutter open, display mode, calibration, light guide insertion, Closed-Loop Feedback
Dimensions (LxWxH)	13.5" x 7" x 8" (34cm x 18cm x 20cm)
Weight	10.8lbs (4.9kg)
Certifications	CE marked, certified to IEC, Canadian and US Standards; RoHS compliant
Warranty	1 year (excluding lamp and light guide)
Patents	X-Cite <i>exacte</i> incorporates technology protected by the following patents: US# 5,521,392; US# 6,333,602; US# 6,437,861; US# 6,847,170; US# 7,335,901

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X-Cite Light Guides

P010-00165	X-Cite 120 XL system without iris. Includes: X-Cite 120 unit without iris, 3mm X 3000mm LLG (P805-00040)	\$3,756.00
P010-00166	X-Cite 120 XL system with iris. Includes: X-Cite 120 unit with iris, 3mm X 3000mm LLG (P805-00040)	\$4,056.00

X-Cite® 120-PC XL Illumination Systems:

* Please specify instrument to be used with so that we can include the appropriate adapter.

P/N	Item	Price
P010-00156	X-Cite 120PC XL unit with iris. Includes: X-Cite 120PC unit with iris, X-Cite 120 lamp module (P012-63000)	\$4,655.00
P010-00158	X-Cite 120PC XL system with iris. Includes: X-Cite 120PC unit with iris, X-Cite 120 replacement lamp module (P012-63000) 3mm X 1500mm LLG (P805-00038), Microscope Collimating Adapter*	\$5,900.00
P010-00159	X-Cite 120PC XL system with iris. Includes: X-Cite 120PC unit with iris, X-Cite 120 replacement lamp module (P012-63000) 3mm X 3000mm LLG (P805-00040), Microscope Collimating Adapter*	\$5,995.00

X-Cite® *exacte* Illumination Systems:

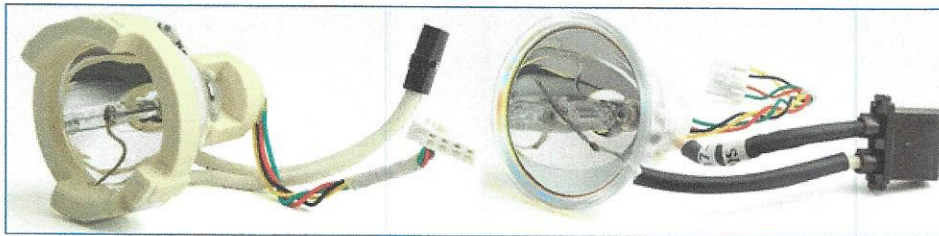
* Please specify instrument to be used with so that we can include the appropriate adapter.

P/N	Item	Price
P010-00200R	X-Cite <i>exacte</i> unit. Includes: X-Cite <i>exacte</i> unit with iris (P010-00200R), X-Cite <i>exacte</i> lamp module (P012-66000R)	\$7,550.00
P010-00158	X-Cite <i>exacte</i> system with iris. Includes: X-Cite <i>exacte</i> unit with iris (P010-00200R), X-Cite <i>exacte</i> replacement lamp module (P012-66000R) 3mm X 1500mm LLG (P805-00038), Microscope Collimating Adapter*	\$8,795.00
P010-00159	X-Cite <i>exacte</i> system with iris. Includes: X-Cite <i>exacte</i> unit with iris (P010-00200R), X-Cite <i>exacte</i> replacement lamp module (P012-66000R) 3mm X 3000mm LLG (P805-00040), Microscope Collimating Adapter*	\$8,900.00

X-Cite® Radiometer:

P/N	Item	Price
P010-00199	X-Cite Radiometer .	\$1,600.00

X-Cite Illumination System Replacement Lamp Modules:



P/N	Item	Price
P012-63000	X-Cite 120/120 PC replacement lamp module <i>shown above right</i> .	\$500.00
P012-66000R	X-Cite <i>exacte</i> replacement lamp module <i>shown above left</i> .	\$625.00

X-Cite Illumination System Liquid Light Guides: