







The X-Cite® XP750 is destined to become an important staple in the toolbox of every investigator who is doing quantitative work that demands absolute repeatability in terms of excitation output.

Michael W. Davidson, The Florida State University

### PC COMMUNICATION

Enjoy the option of paperless record keeping. With the X-Cite® XR2100, you can store power measurements for downloading or logging them directly in the X-Cite® PC interface. Created especially for X-Cite® XP750, the 'power snapshot' tool allows you to collect and save data by wavelength, objective, and intensity. This ensures that you have a complete record of illuminating power for whichever combination of settings used when optimizing and acquiring images.



### ESSENTIAL DIAGNOSTIC TOOL FOR IMAGING FACILITIES

The X-Cite® Optical Power Meter System can service multiple microscopes and their light sources. In addition to standardizing illumination levels for experiments, the X-Cite® XR2100 is a vital diagnostic tool for imaging facilities, technical sales representatives and service centers, providing helpful optical output data for:

- Setting up imaging systems – determining baseline performance
- Troubleshooting imaging systems by quantifying the effect of adjusting settings and servicing individual components
- Preventative maintenance – monitoring optical output over time to determine when components, such as lamps and light guides, require replacement

\*NIST – National Institute of Standards and Technology \*\*NRC – National Research Council

g time periods. The X-Cite® XP750's  
to the specimen at any time point.

Damir Sudar, Lawrence Berkeley National Laboratory

### COMPATIBILITY WITH OTHER X-CITE® SYSTEMS

Have an X-Cite® illuminator? Measure power output on the stage with the X-Cite® XP750, or via the light guide port on the X-Cite® XR2100, compatible with all X-Cite® light guides. Calibrate the X-Cite® *exacte* using power data measured at either the light guide or objective plane. Combining the X-Cite® XP750 with the calibration feature of the X-Cite® *exacte* gives you the added advantages of being able to adjust intensity level while imaging and obtain the power in watts without stopping to take a new measurement.



### 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® 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](http://www.LDGI-XCite.com).

| FEATURES   | BENEFITS  |
|--|---|
| X-Cite® XP750                                      |   |
| Microscope slide dimensions with a low profile     | Fits in a standard microscope clip for convenient measuring of light directly from the objective, without removing or reconfiguring equipment |
| Compatible with lamps, laser and LED light sources | Economically use one system to service multiple microscopes, regardless of illumination technology  |
| Large detection surface area – 10mm                | Appropriate for use with both low and high magnification objectives   |
| No focusing required                               | Obtain accurate measurements quickly  |
| Wide range of wavelengths and power                | Suitable for use with full range of applications and microscope configurations  |

|   |  |
|---|--|
| X-Cite® XP750 & XR2100  |  |
| LCD display with backlight  | View data clearly, even in the dim lighting conditions of a microscopy imaging suite                               |
| Two input ports for measuring power via objective plane sensor or light guide | Selectively monitor light source performance of entire microscope system or individual components                  |
| Calibration traceable to NIST* / NRC** standards                              | Achieve quality assurance and confidence in accuracy of results  |
| One-button / click for data collection, storage and exporting                 | Keep data organized with accurate, paperless record keeping  |
| PC interface  | Manage settings and data conveniently via PC; automatable for convenience and OEM use                              |
| Compatibility with X-Cite® <i>exacte</i> calibration feature                  | Easily calibrate X-Cite® <i>exacte</i> via light guide or objective plane sensor to display and set power in watts |

| SPECIFICATIONS                         | X-Cite® XR2100  | X-Cite® XP750  |
|--|---|--|
| Includes                               | Handheld power meter, adapter for 3mm light guide, software CD, cables, user manual   | Objective plane power sensor with cable / connector for X-Cite® XR2100   |
| Power Range                            | 50mW-10W  | 5µW-500mW  |
| Measurement Resolution                 | 0.1mW-0.01W   | 0.01µW-1mW   |
| Uncertainty***                         | ±5%   | ±6%  |
| Response Time                          | 1s  | 600ms (initial), 3s (to ensure stable reading)   |
| Calibration                            | Traceable to NIST*  | Traceable to NRC**   |
| Wavelength Range                       | 340nm-675nm   | 320nm-750nm  |
| Lamp Type / Light Source Compatibility | X-Cite® 200DC, X-Cite® <i>exacte</i> , X-Cite® 120 Series (using 3mm light guide input port)                                    | X-Cite® 200DC, X-Cite® <i>exacte</i> , X-Cite® 120 Series, Mercury / HBO, Metal Halide, Xenon, LED, Laser  |
| Objective Compatibility                | Not applicable  | 4X-63X; air coupled, with FOV diameters less than 10mm   |
| Display                                | 3 digit LCD, backlight  | Via X-Cite® XR2100   |
| Wavelength Selection                   | Not Applicable  | 1nm increments using up / down buttons on X-Cite® XR2100 or PC interface   |
| Data Capacity                          | Store 100+ readings on handheld unit, or record directly into PC interface; export in spreadsheet compatible format             | Via X-Cite® XR2100   |
| PC Controls                            | View / change settings, download / export stored data   | View / change settings, define favorite wavelengths, record data for multiple objectives / filters / intensity settings, download / export stored data |
| Command Protocol                       | RS232 via USB virtual COM port  | Via X-Cite® XR2100   |
| Power Supply                           | 2 x 3.6V Lithium Battery  | Via X-Cite® XR2100   |
| Weight                                 | 1lb (450g)  | 2.9oz (82g)  |
| Dimensions (without cover)             | 7.5"x 4.5"x 2" (19cm x 11.5cm x 5cm)  | 3"x 1"x 0.35" (75mm x 25mm x 9mm)  |
| Worldwide Certifications               | CE marked   | Via X-Cite® XR2100   |
| Warranty                               | 1 year  | 1 year   |
| Patents                                | X-Cite® Optical Power Measurement System incorporates technology protected by the following patents: US#6,437,861; US#7,335,901 |  |

\*NIST – National Institute of Standards and Technology \*\*NRC – National Research Council

\*\*\*Calibration of X-Cite® XR2100 and X-Cite® XP750 is recommended every twelve months. Contact Lumen Dynamics Group Inc. for further information.



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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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