Product Overview | Life Sciences & Industrial Division

OmniCure®

IN CONTROL

With over 20 years experience, EXFO's OmniCure® Platform of UV/Visible Spot Curing Systems are the most advanced of their kind worldwide. With representation in more than 70 countries EXFO is the recognized global leader in light-based Spot Curing Systems with precision assembly expertise.

SPEED. CONTROL. PRECISION. REPEATABILITY.

The leading edge OmniCure® Platform delivers stronger, faster cures resulting in improved quality, rapid production and reduced manufacturing costs. OmniCure® Spot Curing Systems also offer supreme control, allowing users unparalled levels of customization and precision.

Ultraviolet/Visible Spot Curing Systems

OmniCure® Series 1000

The OmniCure® Series 1000 is the building block of our OmniCure® Platform, the first system to provide excellent versatility in a cost effective UV/Visible Spot Curing System that is ideal for manual applications.

- 100W lamp with up to 18W/cm² of output
- Intelli-Lamp® technology to cool and monitor the lamp for extended lamp life (typically 2000 hours) and optimize performance
- Automatic lamp striking with hot strike prevention that will protect lamp life
- Adjustable light output in 1% increments for precise control
- Selectable bandpass filters to customize light wavelengths for specific applications
- Easy to use finger touch controls with LED display

the first system of the OmniCure® Platform
to provide excellent versatility in a cost effective UV/Visible Spot Curing System

OmniCure® Series 2000

The OmniCure® Series 2000 UV/Visible Spot Curing System is the most intelligent system of its kind on the market, providing the user with optimum power and outstanding control features; it is ideal for use in automated manufacturing processes.

- NEW 200W lamp technology with up to 30W/cm² of output and a guaranteed life of 2000 hours, lowering operating costs
- Intelli-Lamp® technology will cool the lamp and extend lamp life while monitoring accumulated lamp hours
- Closed-Loop Feedback technology automatically maintains exposure levels for repeatable cures, ultimately controlling even the most advanced assembly process
- 2 lamp options; including one specially designed for surface curing of acrylic adhesives; which may eliminate the need for an inert gas or post cure treatment to achieve a tack free surface
- Easily controlled externally from a PC, beneficial for automated assembly processes
- Adjustable light output in 1% increments for precise control
- Optional R2000 Radiometer can be combined with the OmniCure® Series 2000 to calibrate and set absolute irradiance levels wirelessly from a single reference point; valuable in large scale manufacturing

EXFO CLOSED-LOOP FEEDBACK

OmniCure® IN CONTROL

R2000 Radiometer

The R2000 Radiometer is an essential link for measuring the output irradiance from your UV Spot Curing System in order to maintain a repeatable process.

- Wireless and/or Serial Communication with the OmniCure® Series 2000 to set irradiance levels and calibrate the system from a single reference point; ideal in large scale manufacturing environments to maintain process control
- Proprietary detector system for accurate wideband measurements (250-600nm) suitable for many different light sources
- Proprietary optical interface that virtually eliminates beam profile dependence and significantly improves measurement accuracy

- Memory for storing data and communicating with PC software for downloading
- Ready for use with additional custom sensors such as the Cure Ring Radiometer and the Cure Site Radiometer

Cure Site Radiometer

Cure Site Radiometers provide the ultimate in process control by measuring the output power of a Light Guide or Optical Accessory directly at the cure site. The Cure Site Radiometer will show exactly the amount of irradiance at the substrate, allowing users to be able to control their curing process more accurately.

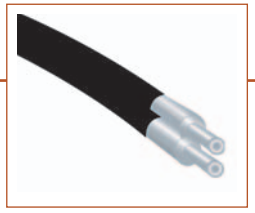
- Can be placed under a Light Guide or Optical Accessory without having to take the Light Guide out of its fixture
- Displays the irradiance at the cure site rather than the tip of the Light Guide; this allows for accurate measurements of irradiance as it is received by the actual substrate
- Can also be used to calibrate the OmniCure® Series 2000 using the irradiance value at the cure site

Cure Ring Radiometer

The Cure Ring Radiometer complements your Cure Ring to provide the most accurate form of process control for precision manufacturing. By enabling the output power from the Cure Ring to be measured directly at the cure site, the Cure Ring Radiometer ensures a repeatable process.

- Measure light output of Cure Ring
- Improve process control
- Custom sizes available





High Power Fiber Light Guides

EXFO High Power Fiber Light Guides, supply an equal distribution of light energy to multiple cure sites from a single light source. This new Light Guide technology provides 25% to 50% more throughput than standard fiber guides to give you more energy from your lamp. In addition, these Light Guides offer 25% more output than bifurcated liquid Light Guides and do not require balancing of the legs.

- Higher output power from multi-legged Light Guides that will extend lamp life, ultimately lowering the cost of operating the system
- Never needs replacing, High Power Fiber Light Guides have been tested for over 60,000 hours of exposure with unfiltered light with no degradation
- Transmits wavelengths from 160nm to 1200nm; Extended Range Liquid Light Guides are no longer required

Liquid Light Guides

Available in 3, 5 and 8 mm tip diameters, these Light Guides are an economical choice for light delivery. Standard lengths range from 750 to 3000 mm. Dual and triple-leg configurations are available for multi-site curing. Extended Range Light Guides deliver additional energy in lower wavelengths for tack-free cures.

- Economical system for delivering light to parts
- High throughput
- Custom spot size diameters and lengths available to easily adapt to any assembly process

Light Guide Retort Stand

The Light Guide Retort Stand provides an effective means to precisely fixture your Light Guide. Maintains constant Light Guide position for repeatable cures.

- Fixtures standard Liquid and High Power Fiber Light Guides
- Height adjustment from 0 mm to 150 mm
- Holds various Light Guide diameters including 2, 3, 5 and 8 mm

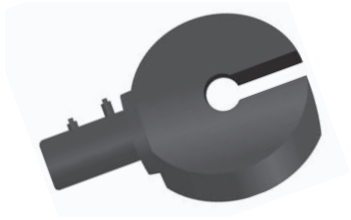
High Power Fiber Light Guides provide 25% - 50% more throughput than standard Fiber Light Guides

OmniCure®
IN CONTROL

Optical Accessories

Cure Ring

Cure Ring technology provides 360° of curing power from a Light Guide. The standard Cure Ring for use with Liquid Light Guides is available in solid or slotted versions. Cure Rings are ideal for bonding a number of parts that require a 360° cure.



- Available in solid, slotted or hinged versions
- Provides a 360° beam of light
- Couples to standard Liquid Light Guides and High Power Fiber Light Guides

Light Line

The Light Line will convert the Light Guide's spot of light into a focused, linear beam of curing energy. The Light Line efficiently cures small rows of components that require up to two inches of curing length. It also performs tacking and strain relief of multi-strand wiring, as well as edge bonding of displays.

- Couples to EXFO 5mm Liquid and High Power Fiber Light Guides
- Standard, two-inch (5cm) Light Line
- Provides a uniform linear beam of light

High Power Fiber Light Line

The High Power Fiber Light Line utilizes technology with the High Power Fiber Light Guide to provide a high output linear beam of curing energy. The fibers are continuous from the Light Guide input to termination eliminating coupling losses seen with standard Light Line accessories. Ideal for applications such as digital printing where high peak irradiance levels are required.

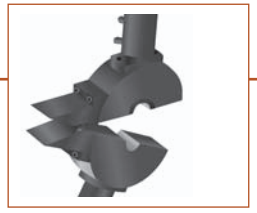
- Provides a uniform linear beam of light
- Provides 2 to 3 times higher irradiance compared to standard Light Line accessories
- Custom sizes available including multi-legged configurations

Adjustable Collimating Adaptor

The Adjustable Collimating Adaptor is ideal for any application that requires a uniform spot from 1" up to 6" (2.54 to 15.2 cm). The benefit for equal distribution of power will allow the user to cure adhesive evenly without having to compensate for uneven light distribution.

- Couples to all standard Liquid Light Guides
- Available for 3, 5 and 8mm Light Guides
- Includes a collimating lens and the Light Guide holder specific for the Light Guide size

OmniCure® IN CONTROL


Hinged Cure Ring


Horseshoe Cure Ring


90° Angle Adaptors


Collimating Adaptor


Large Area Focusing Adaptor

www.exfo-uv.com

Distributed by :

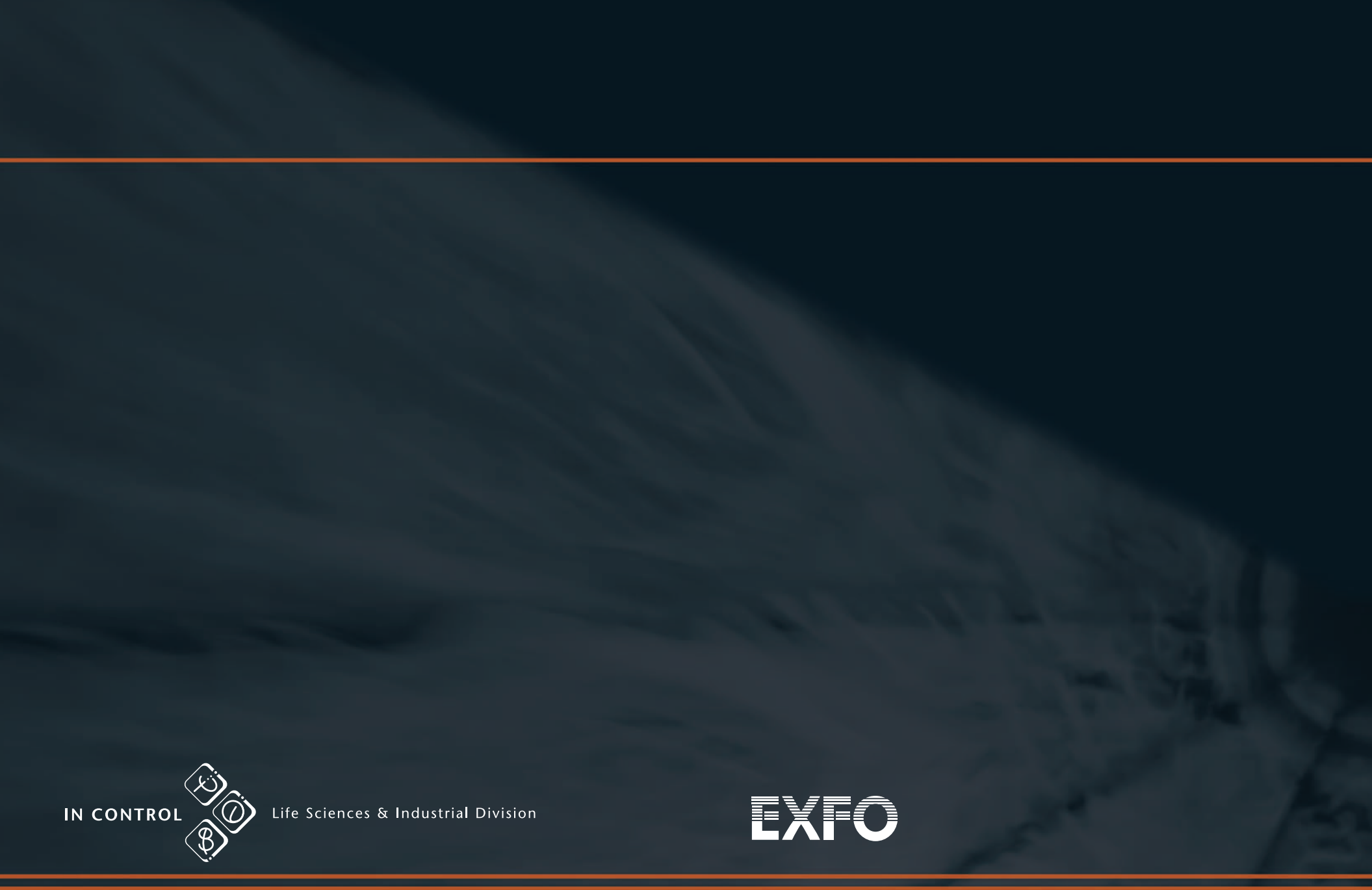
Beam - Consult

Tel : +041 (0) 22 366 76 06

Fax: +041 (0)22 366 76 07

Email: info@uv-spot.ch

www.uv-spot.ch



EXFO Life Sciences & Industrial Division
2260 Argentia Road,
Mississauga, Ontario, L5N 6H7

Tel: +1-905-821-2600 **Fax:** +1-905-821-2055
Website: www.exfo-uv.com

Distributed by :
Beam-Consult
Le Fort 19, CH-1268 Begnins, Switzerland

Tel: +41 (0)22 366 76 06 Fax: +41 (0)22 366 76 07