

UV SPOT CURE SYSTEM

❑ HIGH OUTPUT ULTRAVIOLET ENERGY

High quality optics outputs $3000\text{mW}/\text{cm}^2$ (at 365nm) at 10mm point from fiber optic light guide.

❑ HIGHLY EFFICIENT INFRARED CUT FILTER ELIMINATES RADIATION HEAT DAMAGE

Successful cut of infrared radiation using high performance coating technology on internal optics eliminates heat radiation from UV lamp. Samples are cured without heat but with strong UV energy !

❑ UNIFORM SQUARE AREA EXPOSURE

Intensity uniformity over square area is about $\pm 10\%$. Adequate for large lens adhesion and proximity mask aligning process.

❑ MULTI PURPOSE OPTICAL DESIGN

Our unique concept is the advanced flexible design based on our long experience with state-of-the-art optical technology. Hypercure 200 optics can be combined with the following attachments for multi-task applications:

- Flexible Liquid Light Guide (Single or Multi-branched)
- Rigid Light Guide Attachment (Single Light Pipe)
- Optical Integrator and Lens Assembly (Uniform Square Area Illumination)

❑ PATENTED INSTANT OPTICAL ALIGNMENT

With our patented optical alignment mechanism you are no longer required to operate the UV lamp to seek highest output point for alignment. Replacing lamps is now fast, safe and accurate.

❑ SEPARATE POWER SUPPLY AND LAMP HOUSING UNITS

This flexible design accommodates an automated environment where small space is a vital requirement. Lamp housing can be positioned vertically as well as horizontally.

❑ I/O INTERFACE ALREADY BUILT IN

External control access port.

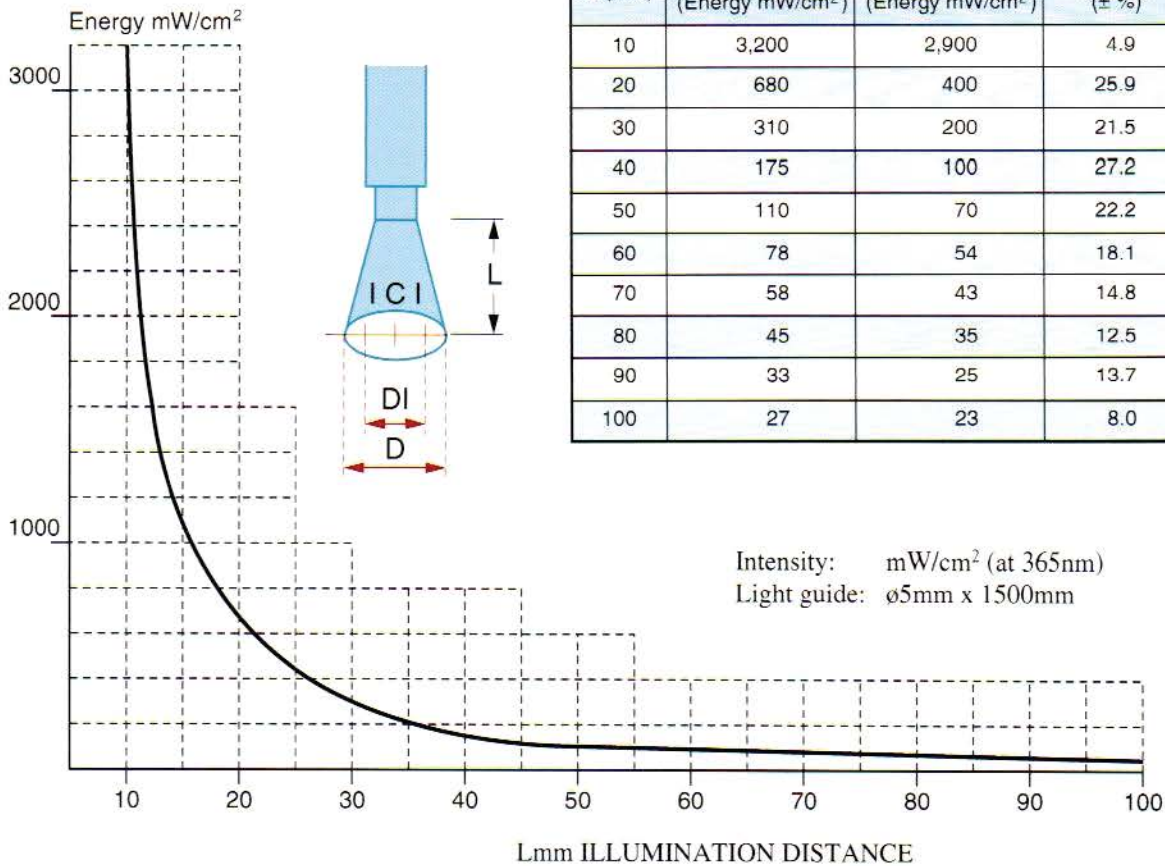
VERTICAL ILLUMINATION MODE



UNIFORM SQUARE AREA EXPOSURE

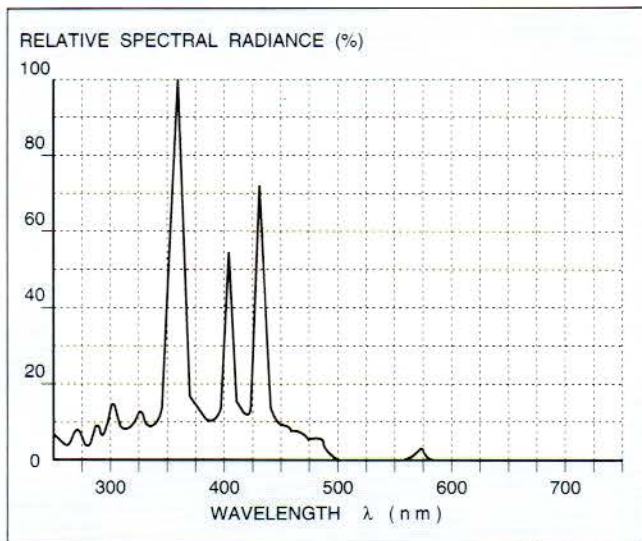


ENERGY LEVEL OUTPUT CHART FROM LIQUID LIGHT GUIDE



L (mm)	C (Energy mW/cm ²)	I (Energy mW/cm ²)	Uniformity (± %)	Useful Diameter (mm)	
				D	DI
10	3,200	2,900	4.9	ø12	ø9
20	680	400	25.9	ø20	ø15
30	310	200	21.5	ø30	ø25
40	175	100	27.2	ø40	ø30
50	110	70	22.2	ø50	ø35
60	78	54	18.1	ø60	ø40
70	58	43	14.8	ø70	ø50
80	45	35	12.5	ø80	ø60
90	33	25	13.7	ø90	ø70
100	27	23	8.0	ø100	ø80

TRANSMISSION CHARACTERISTICS



HYPERCURE 200 CONSISTS OF THE FOLLOWING:

Lamp Housing	1 unit
Lamp Power Supply	1 unit
Flexible Liquid Light Guide	1 unit
Power Cords	1 set
External Control Interface Connector	1 pc.
Foot Switch	1 pc.
Tool Set for Maintenance	1 set
200 Hg-Xe Lamp	1 pc.

OPTIONAL ITEMS

- Vertical Operation Stand
- Rigid Light Guide (RLG)
- Field Lens to Control Light Divergence Angle
- Uniform Exposure Optics Adaptor (50mm x 50mm, 75mm x 75mm or 100mm x 100mm)
- Multi-branched Light Guide

TECHNICAL SPECIFICATIONS

UV ENERGY:	>2,500mW/cm ² with Flexible Liquid Light Guide (FLG) >3,500mW/cm ² with Rigid Light Guide (RLG) (See Chart)
OPERATION ORIENTATION:	Any orientation with FLG. Vertical only with RLG
LIGHT SOURCE:	Hg-Xe 200W (UXM-200YA)
LIFETIME OF LAMP:	1000 hours nominal
OPTICAL AXIS ALIGNMENT:	Special patented alignment mechanism is incorporated for quick, safe and accurate lamp replacement.
POWER SUPPLY:	Input Voltage: AC 90 – 130V, 180 – 260V 50/60Hz
POWER CONSUMPTION:	500VA Maximum
LAMP OPERATING CIRCUIT:	Switching converter with constant current control
COOLING:	Forced air cooling
SHUTTER CONTROL:	Manually and timer activated, external controls available
EXTERNAL CONTROL:	Following functions can be externally controlled <ul style="list-style-type: none">● On/Off lamp● Closing/Opening Mechanical Shutter to control UV exposure time● Activate timer circuit to start desired set exposure time
OUTPUT SIGNAL:	Lamp “ON” signal “SHUTTER OPEN” signal
DIMENSIONS:	Lamp Housing Unit; 195mm high, 308mm deep, 173mm wide, 8kg Power Supply Unit; 156mm high, 278mm deep, 173mm wide, 5kg
WARRANTY:	Special Warranty Package

US PAT # 4,958,909

Specifications subject to change without notification.