



## UV Curing Solutions

A Division of American Ultraviolet



# American Ultraviolet®

Insightful Solutions. Remarkable Results. SINCE 1960.



[LESCO UV](#), a division of American Ultraviolet located in Torrance, CA. [LESCO UV](#) manufactures UV conveyors; handheld and LED curing devices; and specialty [UV curing](#) equipment; and specializes in high-intensity UV spot-curing systems that bond substrates together using [UV-cured](#) adhesives for markets that include aerospace, electronics and medical devices, among others.

## Arc Lamp UV Curing Systems



**Green Spot**

Green Spot curing system uses an industry standard super-pressure mercury 100-watt lamp, mounted vertically, in a dichroic-coated elliptical reflector to generate an intense, consistent, 5mm spot of light in the UVA, UVB, UVC and visible ranges. Its compact size (9.75 x 12.5") is ideal for R&D or other manual operations. Clean-room-ready (Class 100)

Spectrum 100 (VZM1001):

- Small 10" x 10.5" x 5" stainless box design
- 100 watt bulb, programmable timer
- 10-15 watt of UV output, 2000+ hours of bulb life can be used with any standard liquid filled or our new fused fiber light guides
- Clean Room Ready Class 100



**Spectrum 100**



## Super Spot MAX™

### Super Spot MAX (VSM3002) standard:

UVA Peak (@315-400nm) 25,000 mW/ cm<sup>2</sup>;  
UVA Rates (@315-400nm) 20,000 mW/cm<sup>2</sup>;  
Total Intensity (UVA, B, C, V) 30,000+ mW/cm<sup>2</sup>  
Spectral Output: VIS/UVA/UVB/UVB; major peaks @ 365nm,  
254nm, 302nm, 312nm and 405nm; filterable  
Dimensions: 8.5 x 11" x 13.5" deep; 20 lbs.  
Mercury vapor, 100W DC short arc  
Liquid-filled or fiber optic lightguide



## Super Spot MAX HP™

### Super Spot MAX HP (VSM3002-HP) standard:

UVA Peak (@315-400nm) 30,000 mW/ cm<sup>2</sup>; UVA Rates  
(@315-400nm) 25,000 mW/cm<sup>2</sup>; Total Intensity (UVA,  
B, C, V) 45,000+ mW/cm<sup>2</sup>  
Spectral Output: VIS/UVA/UVB/UVB; major peaks @  
365nm, 254nm, 302nm, 312nm and 405nm; filterable  
Dimensions: 8.5 x 11" x 13.5" deep; 20 lbs.  
Mercury vapor, 200W DC short arc  
High temperature FO (FibreFire™)

### Super Spot MAX & MAX HP Features:

- membrane front panel
- RS485 serial interface (optional)
- User-friendly DataMax™ software creates records of every cure cycle, keeping them in its built-in memory until downloaded and reset. (optional)
- Simple alphanumeric commands add to the ultra flexible serial interface capabilities.
- proprietary Optical Feedback

### MAX Intensity Specifications:

- \* 30 W/cm<sup>2</sup> Total Intensity (UVA, B, C and Visible)
- \* 25 W/cm<sup>2</sup> Peak Intensity in UVA (315 to 400nm)
- \* 18 W/cm<sup>2</sup> Rated Intensity in UVA (315 to 400nm)



Super Spot MK-III

SUPER SPOT MK-III (VSM3003) UV spot curing system  
System includes:

- \* Stainless steel enclosure
- \* Quickset shutter timer with LCD countdown display
- \* Accumulated lamp usage hour meter
- \* Manual/Timer shutter operation switch
- \* Footswitch activated shutter control
- \* Solid state bi-level power supply
- \* Air-cooled lamp and power supply with ventilation protection
- \* IR filter for less heat
- \* One pair of UV safety eyewear
- \* Optical Feedback VUM1021
- \* Selectable 120VAC/ 220VAC 50/60HZ

# CUREMAX

## UV Flood Cure Chamber



### UV Flood Lamp Curing System

#### Standard Features

- **Cure chamber:** 8"W x 8"L
- **Part height:** up to 6" standard
- **Lamp module:** Removable; irradiator built-in
- **Lamp type:** High intensity UV Arc
- **Lamp intensity:** to 500W/inch
- **Intensity uniformity:** +/- 10% (5% typ.) across entire part stage
- **Safety interlocks:** Chamber door interlocked to shutter interface; SMEMA compatible
- **Controls/indicators:** Auto timer control, hour meter, timer/ manual selector, shutter actuating footswitch, PC I/O
- **Electrical:** 110-240Vac, 50/60Hz selectable
- **Optional** chamber sizes available

Highest intensity UV solution for uniformly curing large areas.

The unique design of the LESCO CureMAX (FEM1011) results in the highest intensity UV light for uniformly curing a large area. By using a shutter, the standard stainless steel curing chamber controls the dosage of exposure applied to your parts (maximum part size: 7.75"L x 7.75"W x 6.0"H; it can be customized to accommodate larger parts). The CureMAX is clean-room ready and uses an arc lamp with a reflector to achieve low maintenance costs

## LED Curing Solutions



### Cool Cure 365

Cool Cure 365 (FLM1003) Standard Features  
Maximum output 40w/cm<sup>2</sup> UVA  
Minimal IR wave length  
Long LED life  
Fully adjustable output (0-100%)  
Instant On/Off; Low power consumption  
2-year warranty  
90-260 VAC power supply  
Available 365/385/395/405/450nm  
Optional I/O feature available  
CE Small, lightweight design



### Cool Cure 365HP

Cool Cure 365HP (FLM1003-HP) which has an output range of 0-40w/cm<sup>2</sup> and a spectral range of 365nm

### Cool Cure 395

Cool Cure 395, with an output range of 0-25 w/cm<sup>2</sup> and a spectral range of 395-400nm

LESCO LED Spot Curing Solutions, including 365, 385, 390, 395, 405, and 450nm ranges. UV power output on our LED products is second to none - ranging from:

- **Cool Cure Lite 365** = 6" x 6" x 9.5"; 2-20 W/cm<sup>2</sup> @ 365nm
  - **Cool Cure 365** = 10" x 10.5" x 5"; 2-25 W/cm<sup>2</sup> @ 365nm
  - **Cool Cure 365 HP** = 10" x 10.5" x 5"; 2-40 W/cm<sup>2</sup> @ 365nm
- LESCO LED products have the longest warranty in the industry (2-years parts and labor). They come with fully adjustable intensity output. CE-compliant, and Clean Room ready (Class 100).



## Cool Cure Lite

### **Cool Cure Lite (FLM1005) Standard Features:**

- Direct replacement for arc lamp technology
- Adjustable UV output (0.5-20 W/cm<sup>2</sup>)
- Long LED life
- Instant on/off; low power consumption
- Low cost/high ROI
- Programmable timer
- Uses standard liquid or high power fiber optic light guides
- 2-year warranty
- Minimal IR wavelengths
- No Filters required; no replacement lamps
- Lightweight system at just 6 pounds
- 90-280 VAC power supply
- Available in 365, 385, 390, 405 and 450nm wavelengths
- CE

### **Cool Cure Beam (FLM1009) comes complete with:**

- 365nm LED
- 2 Rechargeable Batteries
- Battery Charger
- Safety glasses
- 3mm Circle Beam Lens Standard
- Travel Case
- CE Approved
- Wavelengths:** 365, 385, 395, 405nm
- Intensity:** 860 mW/cm<sup>2</sup> - 13 W/cm<sup>2</sup>
- Battery Life:** 3 hours continuous operation per battery
- On/Off:** Instantaneous



### **Optional Lens Kit:**

- Interchangeable Lens Kit
- Circle Beam - 3, 4, 5, 6, 8, 10, 12 & 15mm
- Rectangular Beam - 3mm x 15mm & 5mm x 20mm



## Cool Cure Beam



## Cool Cure Chamber

UV LED CURING OVEN (FEM1042) provides an excellent solution for flood curing applications up to 8" x 8" which require minimal part movement and minimal heat to the substrate.

### Specifications:

Powerful 365nm UV LED flood curing system

8"W x 8"D (20cm x 20cm) curing chamber

Available in 365, 385, 390, 405 and 450nm wavelengths

Dimensions: 9.6"W x 12.2"D x 16.5"H (24.5cm x 31cm x 42cm)

Programmable timer

Instant On/Off

15,000+ hour expected LED life

Electrical: 90-260VAC, 50/60Hz

Safety interlock

2 year warranty

## Lesco UV Conveyors



C636



C6/300

## ModCure UV LED Curing System





# Part List

## Cool Cure Beam 365

FLM1009 COOL CURE Beam 365 uv Spotcure-cordless  
COOL CURE Beam 365 uv Spotcure-corded

System includes:

- \* Standard LED 365nm
- \* ON/OFF switch
- \* Two rechargeable LITHIUM Ion Batteries (For cordless version only)
- \* Battery charger/ 60-260VAC/ 50/ 60HZ (For cordless version only)
- \* Standard 3mm lens
- \* Travel case
- \* User Manual
- \* UV safety eyewear

**NOTE:** Optional Cool Cure Beams available 385nm, 395nm, 405nm.

### **OPTIONS**

OSB1008 Circle Beam 3mm standard  
KKB2017 Kit UV Optical Lenses 4/5/6/8/10/12/15/15X3/20X5mm

## Cool Cure 365

FLM1003 COOL CURE 365 uv led spot curing system

System includes:

- \* Digital shutter timer with foot switch
- \* Accumulated Lamp usage Hour Meter
- \* Programmable Timer
- \* Double fan cooling system
- \* Fully adjustable output (0-100%)
- \* Stainless Steel Enclosure
- \* User Manual
- \* Power cord
- \* Footswitch
- \* UV safety eyewear
- \* Input voltage: 90-260VAC 50/60HZ
- \* Adjustable output: from 0 to 25W/cm2

NOTE:

**When P/N OLB1003, 5mm X 1000mm Single Liquid Light guide is ordered with the system:  
The discounted price is + \$495.00**

**(See page# 10 for other light guide options)**

### **OPTIONS**

EVB2115 Replacement Footswitch  
KFB1003 Intake Filter (5 pack)  
VUM1043 I/O option  
Optional Cool Cure wavelength available: 385nm, 395nm, 405nm.

## Cool Cure 365-HP

FLM1003-HP COOL CURE 365 High Power uv led spot curing system

System includes:

- \* High performance solid state power supply
- \* Most powerful UVA LED curing device available
- \* Digital shutter timer with foot switch
- \* Accumulated Lamp usage Hour Meter
- \* Programmable Timer
- \* Double fan cooling system
- \* Fully adjustable output (0-100%)
- \* Stainless Steel Enclosure
- \* User Manual
- \* Power cord
- \* Footswitch
- \* UV safety eyewear
- \* Input voltage: 90-260VAC 50/60HZ
- \* Adjustable output: from 0 to 40W/cm2

NOTE:

**When P/N OLB1003, 5mm X 1000mm Single Liquid Light guide is ordered with the system:  
The discounted price is + \$495.00**

**(See page# 10 for other light guide options)**

### **OPTIONS**

EVB2115 Replacement Footswitch  
KFB1003 Intake Filter (5 pack)  
VUM1043 I/O option  
Optional Cool Cure wavelength available: 385nm, 395nm, 405nm.

## Cool Cure 365-Lite

FLM1005 COOL CURE LITE 365 uv led spot curing system

System includes:

- \* Digital shutter timer with foot switch
- \* Programmable Timer
- \* Single fan cooling system
- \* Fully adjustable output (0-100%)
- \* Stainless Steel Enclosure
- \* User Manual
- \* Power cord
- \* Footswitch
- \* UV safety eyewear
- \* Input voltage: 90-260VAC 50/60HZ
- \* Adjustable output: from 0 to 15W/cm2

NOTE:

**When P/N OLB1003, 5mm X 1000mm Single Liquid Light guide is ordered with the system:  
The discounted price is + \$495.00**

**(See page# 10 for other light guide options)**

### **OPTIONS**

EVB2115 Replacement Footswitch  
Optional Cool Cure wavelength available: 385nm, 395nm, 405nm.

## Spectrum 100

VZM1001 SPECTRUM 100 spot curing unit

System includes:

- \* 100-watt high performance solid state power supply
- \* Adjustable out put from 0.1 to 18w/cm<sup>2</sup>
- \* Digital shutter timer with foot switch
- \* Accumulated Lamp usage Hour Meter
- \* Programmable Timer
- \* Dual fan cooling system
- \* Stainless Steel Enclosure
- \* User Manual
- \* Power cord
- \* Footswitch
- \* UV safety eyewear
- \* IR filter for less heat
- \* 100~240VAC, 50/60HZ

NOTE:

**When P/N OLB1003, 5mm X 1000mm Single Liquid Light guide is ordered with the system:  
The discounted price is + \$495.00**

**(See page# 10 for other light guide options)**

**SPECTRUM 100 Intensity Specifications:**

- \* 18 W/cm<sup>2</sup> Total Intensity (UVA, B, C and Visible)
- \* 15 W/cm<sup>2</sup> Peak Intensity in UVA (315 to 400nm)
- \* 10 W/cm<sup>2</sup> Rated Intensity in UVA (315 to 400nm)

**OPTIONS**

KKB2014 Kit Spare Parts Bulb/Reflector (LPB1014)-IR Filter  
LPB1014 Replacement SPECTRUM 100 UV bulb/reflector  
EVB2115 Replacement Footswitch  
KFB1003 Intake Filter (5 pack)  
OFB1004 280-480nm IR Filter  
OFB1013 280-500nm IR Filter  
OFB1008 280-400nm IR Filter

## Super Spot MK-III

VSM3003 SUPER SPOT MK-III UV spot curing system

System includes:

- \* Stainless steel enclosure
- \* Quickset shutter timer with LCD countdown display
- \* Accumulated lamp usage hour meter
- \* Manual/Timer shutter operation switch
- \* Footswitch activated shutter control
- \* Solid state bi-level power supply
- \* Air-cooled lamp and power supply with ventilation protection
- \* IR filter for less heat
- \* One pair of UV safety eyewear
- \* Optical Feedback VUM1021
- \* Selectable 120VAC/ 220VAC 50/60HZ

**MKIII Intensity Specifications:**

- \* 25 W/cm<sup>2</sup> Total Intensity (UVA, B, C and Visible)
- \* 20 W/cm<sup>2</sup> Peak Intensity in UVA (315 to 400nm)
- \* 15 W/cm<sup>2</sup> Rated Intensity in UVA (315 to 400nm)

**OPTIONS**

KKB2009 Kit Spare Parts Max-MKIII: Bulb-Reflector-IR Filter  
VUM1022 I/O Option  
LPB1008 Replacement MK-III replacement UV bulb  
SSM3031 Replacement Reflector  
EVB2115 Footswitch  
KFB1019 Intake Filter (5 pack)  
OFB1004 280-480nm IR Filter  
OFB1008 280-400nm IR Filter

## Super Spot MAX 100W

VSM3002 SUPER SPOT MAX 100 Watt UV spot curing system

System includes:

- \* Optical Feedback for constant intensity and process control
- \* RS-232 & RS-485 Serial communication capability
- \* Membrane keypad with digital readouts
- \* I/O connectors for automation applications
- \* Stainless steel enclosure
- \* Internal hour meter for recording lamp usage
- \* Remote footswitch with receptacle for automatic operation
- \* Solid state bi-level power supply
- \* Air-cooled lamp and power supply with ventilation protection
- \* IR filter for less heat
- \* One pair of UV safety eyewear
- \* Switch controlled shutter interface I/O (VUM1029)
- \* Selectable 120VAC/ 220VAC 50/60HZ

### **MAX Intensity Specifications:**

- \* 30 W/cm<sup>2</sup> Total Intensity (UVA, B, C and Visible)
- \* 25 W/cm<sup>2</sup> Peak Intensity in UVA (315 to 400nm)
- \* 18 W/cm<sup>2</sup> Rated Intensity in UVA (315 to 400nm)

### **OPTIONS**

VUM1029 Switch controlled shutter interface I/O  
VUM1028 Shutter interface I/O  
VUM1030 Voltage controlled shutter interface I/O  
VUM1031 Shutter interlock (P2 & 4) added to either I/O option  
VUM1032 Voltage controlled shutter interface I/O

KKB2006 DataMAX Process Validation software  
(Provides full data acquisition of date/time stamped process parameters, user calibration events and data export through RS485 of up to 99 MAX systems)

KKB2009 Kit Spare Parts Max-MKIII: Bulb-Reflector-IR Filter  
LPB1008 Replacement 100 Watt UV bulb  
SSM3031 Replacement Reflector  
EVB2115 Replacement Footswitch  
OFB1004 280-480nm IR Filter  
OFB1008 280-400nm IR Filter  
KFB1019 Intake Filter (5 pack)

MAX 100W Pricing subject to change without notice

## Super Spot MAX 100W

VSM3002-HP SUPER SPOT MAX 200 Watt UV spot curing system

System includes:

- \* Optical Feedback for constant intensity and process control
- \* RS-232 & RS-485 Serial communication capability
- \* Membrane keypad with digital readouts
- \* I/O connectors for automation applications
- \* Stainless steel enclosure
- \* Internal hour meter for recording lamp usage
- \* Remote footswitch with receptacle for automatic operation
- \* Solid state bi-level power supply
- \* Air cooled lamp and power supply with ventilation protection
- \* IR filter for less heat
- \* One pair of UV filter glasses
- \* Switch controlled shutter interface I/O (VUM1029)
- \* Selectable 120VAC/ 220VAC 50/60HZ

MAX-HP Intensity Specifications:

- \* 40 W/cm<sup>2</sup> Total Intensity (UVA, B, C and Visible)
- \* 30 W/cm<sup>2</sup> Peak Intensity in UVA (315 to 400nm)
- \* 20 W/cm<sup>2</sup> Rated Intensity in UVA (315 to 400nm)

### **OPTIONS**

VUM1029 Switch controlled shutter interface I/O  
VUM1028 Shutter interface I/O  
VUM1030 Voltage controlled shutter interface I/O  
VUM1031 Shutter interlock (P2 & 4) added to either I/O option  
VUM1032 Voltage controlled shutter interface I/O

KKB2006 DataMAX Process Validation software  
(Provides full data acquisition of date/time stamped process parameters, user calibration events and data export through RS485 of up to 99 MAX systems)

KKB2010 Kit Spare Parts Max-HP: Bulb-Reflector-IR Filter  
LPB2001 MAX-HP 200W Bulb  
SSM3045 Replacement Reflector  
EVB2115 Replacement Footswitch  
OFB1004 280-480nm IR Filter  
OFB1008 280-400nm IR Filter  
KFB1019 Intake Filter (5 pack)

MAX 200W Pricing subject to change without notice

## Accessories



### Radiometer AIB1001

VXB1001	UV Safety eyewear
AIB1001	Spot cure Radiometer UV Intensity Meter
VSM9001	Calibration Fixture Quartz
VUM1003	UV Safe Enclosure 14"x14"x8" ( Super Spot MKII)
VUM1018	UV Safe Enclosure 14"x14"x8" (MKIII, MAX, Max Elite,Spectrum100, Cool Cure)
ARB1003	Radiometer Uvcure Plus 2 - 365nm, Hi Power 10mW-10W
ARB1007	Ambient UV Safety Radiometer
ARB1014	Radiometer Power Puck 2 Hi Power 10mW-10W, UVA,UVB,UVC,UVV
ARB9002	MICROCURE Starter Kit : 2-MICROCURE Radiometers and 1-Data Reader
LXB1008	FLUORESCENT LAMP / For Bench Top Inspection Light
OFB1004	280-480nm IR Filter
OFB1008	280-400nm IR Filter
OFB1013	280-500nm IR Filter
OFB1014	280-320nm IR Filter
OFB1017	280-480nm IR Filter (60% Transmission)
OFB1019	400-500nm IR Filter
OFB1021	320-400nm IR Filter
LPB0601	Spectrum 60 Bulb
LPB1005	MKII Bulb
LPB1002	Rocket 225 Bulb
LPB1003	Rocket LP Bulb
LPB1008	MKIII / MAX 100W Bulb
LPB2001	MAX-HP 200W Bulb
LPB1014	Spectrum 100 / Green Spot Bulb (GS3120)
KKB5001	Cure Max Bulb Kit

OLB1003	5mm x 1M Liquid Light guide
OLB1004	5mm x 1.5M Liquid Light guide
OLB1009	5mm x 3M Liquid Light guide
OLB1008	8mm x 1M Liquid Light guide
OLB1010	8mm x 1.5M Liquid Light guide
OLB1001	2 x 3mm x 1M Dual Liquid Light guide
OLB1002	2 x 3mm x 1.5M Dual Liquid Light guide
OLB1012	3 x 3mm x 1.5M Trifurcated Liquid Light guide

### Liquid Light Guides

### Standard Fiber Optic Light Guides

OLB1081	LTGD FO SINGLE 3mm ID X 5mm OD X 44 IN L
OLB1157	LTGD FO SINGLE 5mm ID X 7mm OD X 1ML
OLB1166	LTGD FO SINGLE 5mm ID X 8mm OD X 1.5ML
OLB1167	LTGD FO 1:2 3mm ID X 5mm OD X 1ML
OLB1065	LTGD FO 1:2 1.77mm ID X 5mm OD X 1.5M L
OLB1058	LTGD FO 1:3 1.77mm ID X 2.5mm OD X 1.5 ML
OLB1057	LTGD FO 1:4 1.77mm ID X 2.5mm OD X 1.5 ML
OLB1016	LTGD FO 1:4 .394IN X .217IN RECTANGULAR TIP
OLB1182	LTGD FO 1:3 3mm ID X 5mm OD X 1ML

### High Power Fused Fiber Optic Light Guides

OLB1081-F	LTGD FUSED FO SNGL 3mm ID X 5mm OD X 44 IN L
OLB1157-F	LTGD FUSED FO SNGL 5mm ID X 7mm OD X 1M L
OLB1166-F	LTGD FUSED FO SNGL 5mm ID X 8mm OD X 1.5M L
OLB1167-F	LTGD FUSED FO 1:2 3mm ID X 5mm OD X 1ML
OLB1065-F	LTGD FUSED FO 1:2 1.77mm ID X 5mm OD X 1.5M L

### Light guide Accessories

OLB9003	360 Degree Cure Fixture/ Includes light guide adapter
OLB9007	UV Spotcure Collimator fits 5mm Light guides

## Cool Cure Chamber

FEM1042 365 LED Cool Cure Chamber System

System includes:

- \* 365 nm LED module installed
- \* Digital PCM W/ Solid State Ballast
- \* Cabinet with built-in cooling fan with rear exhaust
- \* Manual or Timer Cure Cycle Mode
- \* Accumulating hour meter to record chamber usage
- \* Solid Door with UV exposure safety interlock
- \* Air-cooled cure area with ventilation
- \* Adjustable cure surface to accommodate assemblies up to 6" in height
- \* Overall dimensions: 9.6"W X 12.2"D X 16.5"H
- \* Curing Chamber dimensions: 8" W x 8"D
- \* Powder coated blue
- \* Crating

**NOTE:** Larger Chambers Available

### **OPTIONS**

View Door

New Replacement 365 LED module

Replacement Footswitch

Remote I/O for Cool Cure Chamber

Optional LED Modules available:

385nm, 395nm, and 405nm.

Nitrogen Purge Kit

EVB2115

## Cool Max Chamber

FEM1011

CUREMAX Chamber Lamp Curing System

The AUV WEST CureMax System consists of one Irradiator and one Power Supply.

System includes:

SEM1046-POWER CONTROL MODULE (PCM) includes:

- \* Digital PCM W/ Solid State Ballast
- \* Stainless Steel Cabinet with built-in cooling fan with rear exhaust
- \* Manual or Timed Cure Cycle Mode
- \* Remote operation using footswitch or I/O interface connector
- \* Dimensions 15-1/2" L x 10"W x 7-1/2"H

SEM1038-IRRADIATOR includes:

- \* SEM1044 Cure Chamber with enhanced cooling
- \* Stainless steel construction
- \* Modular bulb/reflector for easy bulb access
- \* Accumulating hour meter to record lamp usage
- \* Solid Door with UV exposure safety interlock
- \* Air-cooled bulb and jacketed cure area with ventilation
- \* Adjustable cure surface to accommodate assemblies up to 5" in height
- \* 8"x 8" uniform cure area
- \* Crating
- \* Dimensions 14" L x 9-3/4"W x 18-1/2"H

**Note:** Larger Custom Cure Chambers and chamber inerting available.

### **OPTIONS**

SEM1032

View Door

SEM1027

Built-in quartz diffuser plate for improved uniformity

SEM1045

Built-in Special Dichroic hot mirror diffuser quartz plate

SEM1031

New Replacement lamp module

KKB5001

Bulb & Reflector Cure Max Kit

EVB2115

Replacement Footswitch

FOM7001

Remote I/O for CureMax

