

# Excellence in ultraviolet based engineering



**JentonUV** UV Curing Conveyors  
Excellence in ultraviolet based engineering

# Spot Curing

Excelitas Omnicure™ UV spot cure systems provide UV light via lightguides and optics. UV Wavelength is controlled with bespoke filters, output controlled via Closed loop feedback using calibrated radiometers. The market leaders in the demanding medical device manufacturing world. Power with control means consistency!

# | UV Spot Curing



## OmniCure® S1500 Pro Spot Curing System

**A Cost-Effective System  
Solution that Delivers Power,  
Control and Reliability**

- Fast Shutter Activation
- Time Modified PLC Level
- 200W UV curing lamp technology with 2000 hour lamp life guarantee
- Patented Intelli-Lamp Technology to cool lamp and monitor lamp hours

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## OmniCure® S2000 Elite

**Leap into the future of UV  
Curing**

- Remote control and monitoring
- Field configuration
- Closed-Loop feedback
- Intelli-Lamp® Technology
- Intelli-Tap® KeyCards
- Touch Screen UI

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# UV LED Spot Curing

JentonUV prefers and supplies Excelitas (Canada) UV LED spot cure sources. High quality UV LEDs behind excellent focusing optics with excellent power supplies and control mean that production repeatability is achieved, even to medical device standards. 365nm, 385nm, 395nm & 405nm outputs are standard products but other wavelengths are available upon request.



# | UV LED Spot Curing



## OmniCure® LX500

### Ultra-Compact UV LED Spot Curing System for a Consistent, Repeatable Curing Process.

The new LX500 LED Spot Cure System is available as 2 or 4 channel version and offers control and power that puts it head and shoulders above the rest. The only UV LED Spot Curing System with a closed loop feedback system to calibrate each LED head to a recognized NIST standard makes it ideal for Medical Device manufacturing. A choice of 4 wavelength heads are available; 385nm, 385nm, 395nm and 405nm. Plus, some custom wavelengths can be obtained.

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- Outstanding optical stability via Intelli-Lamp UV LED Technology
- Exceptionally high peak irradiance for increased UV Spot Curing efficiency
- Calibration utility to maintain long term stability of UV light
- Unparalleled process control with StepCure® 2.0
- Programming and data logging in real time via a Micro SD
- Precise light intensity control
- Simultaneous or individual control of up to four UV LED curing heads
- LED head temperature display
- 75% less energy consumption with high energy efficiency
- Compact and robust system design
- Intuitive front panel control

The background is a dark purple color with a complex, light-colored technical drawing or blueprint pattern. The drawing consists of various geometric shapes, lines, and circles, resembling a mechanical or architectural plan. A prominent feature is a large, stylized silhouette of a palm tree or a similar plant, rendered in white lines, positioned centrally behind the text. On the left and right sides, there are dark purple rectangular buttons with white left-pointing and right-pointing arrows, respectively, suggesting a navigation interface.

# UV Spot Curing Accessories

# | UV Spot Curing Accessories



## UV LED Light Meter OmniCure®

Achieve Maximum Reliability and Control for Your UV Curing Process

- Easily adapted in a fixture or restricted space
- Accurate irradiance/power measurements
- Measure from wide variety of LED light sources
- Detects peak measurement and records value
- Traceability for QA process

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## OmniCure® R2000 Radiometer

Your Technology Advantage for a Repeatable UV Process

- Serial communication with the OmniCure S2000
- Proprietary detector system for accurate wide-band measurements
- Light Guide detector, color coded adapters
- Memory for storing data
- Connect to a PC to download readings

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## Cure Ring

Allowing a lightguide 360-degrees of curing power

- Provides a 360° beam of light
- Available in solid, slotted or hinged versions
- Couples to standard Liquid Light Guides and High Power Fiber Light Guides
- Allows for an even cure around substrate, eliminating uneven curing

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# | UV Spot Curing Accessories



## Collimator Adaptor

Ideal for any application that requires a uniform spot from 1" up to to 6"

- Provides a uniform spot from 1" up to 6"
- \* Available in diameter sizes of 3mm, 5mm, 8mm
- Includes Light Guide holder specific to the Light Guide size
- Low cost for small scale manufacturing
- Easily adapts to all liquid and fibre light guides

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## High Power Fibre Light Line

Utilizes technology developed in the High Power fibre light guides to provide a high output linear beam of curing energy

- Provides a high output linear beam of curing energy
- Provides 2 to 3 times higher irradiance compared to standard light line accessories
- Custom sizes available
- Eliminating any loss that occurs between accessory and Light Guide

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## High-Power Fibre Lightguides

Supplying an equal distribution of light energy to multiple cure sites from a single light source

- Equal output through multiple legs
- Higher output power (25% to 50% more throughput)
- No degradation and longer life time than liquid light guides
- Transmits from 160nm to 1200nm

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# | UV Spot Curing Accessories



## Light Line

Convert the Lightguide's spot of light into a focused, linear beam of curing energy

- Couples to 5mm Lumen Dynamics Liquid and High Power Fibre Light Guides
- Standard, two inch (5cm) length
- Provides a uniform linear beam of light
- Easily adapts to any assembly process
- Equal distribution of linear light

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## Liquid Light Guides

An economical choice for light delivery

- Economical light delivery to parts
- High throughput
- 2, 3, 5 & 8mm Spot Size Diameters
- Low cost for small scale manufacturing
- Suitable for a variety of applications
- Custom spot diameters to fit any assembly process

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# UV LED Large Area Sources

JentonUV prefers and distributes Excelitas (Canada) UV LED linear UV curing sources in UK and Ireland. High quality UV LED diodes with excellent thermal control mean consistent powerful output at 365nm, 385nm, 395nm and 405nm. Various lengths available and high quality optics for excellent focus options.

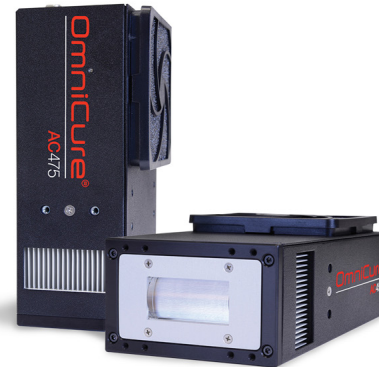
# | UV LED Large Area Sources



## OmniCure® AC2 Series

Compact UV LED Curing Systems for Inks, Coatings and Adhesives

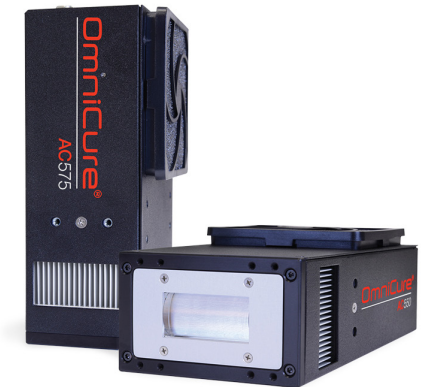
- Compact size
- Output of over 2.5 W/cm<sup>2</sup>
- Patented individual LED module output
- Available in 365 nm and 395 nm
- Air-cooled design
- 20,000 hour typical lifetime

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## OmniCure® AC4 Series

Small Area UV LED Curing Systems for Adhesives, Coatings and Inks

- Output of over 8 W/cm<sup>2</sup>
- Custom front-end optics
- Patented process for addressing individual LED modules
- I/O Port for remote operation
- Highly-efficient LED modules

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## OmniCure® AC5 Series

High Power, Small Area UV LED Curing System for Adhesives, Coatings and Inks

- Output power of 14 W/cm<sup>2</sup>
- Available in standard print versions @ 395 nm
- Custom optics
- Patented process for addressing individual LED modules
- I/O Port for remote operation

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# | UV LED Large Area Sources



## OmniCure® AC8 Series

Large Area UV LED Curing System for Adhesives, Coatings and Inks

- Easy integration with compact, air-cooled design and streamlined control interface
- Robust and scalable to address multiple cure widths by adjoining UV LED systems
- Unparalleled optical uniformity
- Extraordinary stability and process control

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## OmniCure® AC9 Series

High Power UV LED Curing Systems for Adhesives, Coatings and Inks

- Outstanding optical performance to provide high irradiance at varying working distances
- Superior uniformity with the ability to adjoin multiple UV LED heads
- Exceptional process control
- Compact air-cooled UV LED design

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## OmniCure® PLC2000 Programmable Controller

A Multipurpose External Controller Device

- Intelligent digital control
- Intensity control in 1% increments
- Exposure timer
- Pulsed operation
- Set timed operation
- Fine-tune on/off illumination

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# UV Large Area Sources (LED, Arc and Pulsed)

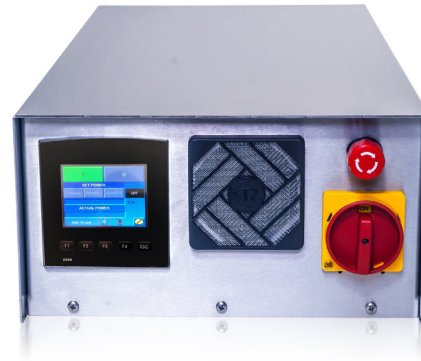


## JA Modular UV Curing Lamp

Robust and well-engineered range of integral, air-cooled UV curing lamp systems

- Small footprint
- Quick bulb change
- Simple integration/operation
- A range of power options available
- Local or remote control

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## UV Lamp Power Supply Units

These units are smaller and lighter than the fixed power system

- Can be supplied in kit form or fully finished with power meter and interlock connection for control
- Some customisation is possible
- Options include feedback control from UV sensing/speed
- Sensing for constant dose 2500W and 7500W

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## Xenon Pulsed Light Systems

Delivering peak energies

- 100,000 times higher than the sun's intensity on the earth's surface.
- Process flexibility; engineers can tailor key parameters
- Saves up to 80% on energy use compared to continuous light

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# UV Custom Engineering

JentonUV understands that it's all about getting the right UV at the right intensity to the UV adhesive, ink or coating that needs to be cured. We have 40+ years experience of doing that, with appropriate use of reflectors, optics and movement. We make ovens, jigs, turntables, lightshields, workstations and optics so customers make great products.

# | UV Custom Engineering



## UV Curing Drawer Type Work Station

Fitted with Excelitas UV LED

Manually operated drawer with interlock for lamp start / stop. Drawer can be fitted with lock to ensure full exposure time and UV power levels, timing etc. all settable on HMI unit. Oven fitted with extraction plenum. Similar units can be supplied fitted with arc lamp or low pressure UV lamp systems.



## UV Benchtop Curing Conveyor

Customised and manufactured by Jenton UV

Robust, stainless steel, specifically designed for laboratory and development applications and continuous production line use. Available as bench-top or free standing with widths typically from 200mm to 800mm. All systems are variable speed with digital speed output readings and full interlocks to lamps and controllers.



## Custom UV Oven for Revolving Products

Core mounted by hand and vertical door shut

Typical of many JentonUV custom solutions, this unit was designed for precise UV exposure to coatings on motor cores. Core mounted by hand and vertical door shut.

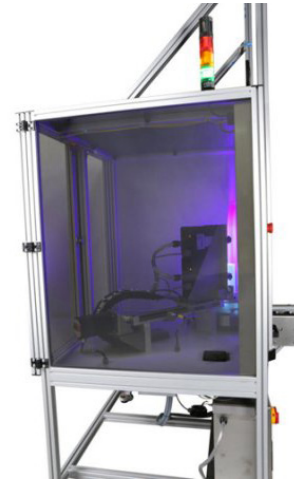
# | UV Custom Engineering



## Rotary UV Curing System

**UV print cure system for UV curing of screen printed inks on oil filters**

System includes servo controlled turntable and rotor-on-rotor system for precise rotation of individual filters in focus of UV curing system. Jenton UV system constructed from stainless steel including light shields and fume extraction.



## UV Curing Rotary Turntable

**JentonUV specialise in UV curing for industrial applications**

Typical of many systems our designs concentrate on generating exactly the right wavelength(s) of UVC from arc, low pressure or LED sources and then specifying optic/reflectors to direct that light precisely to the right place on engineered items for adhesive or coating curing.



## UV Conveyor Drawer Unit for UV Exposure

**Enhancing surface properties of special polymers in the electronics industry**

This sophisticated inerted UV Curing System, utilises a special 172nm excimer lamp and was designed for enhancing surface properties of special polymers in the electronics industry.

# Jenton UV Conveyors

Jenton UV has supplied a wide range of UV curing systems since the 1970s including: Arc, LED and microwave UV curing systems, custom engineering, conveyors, radiometers, control systems and adhesives

It's all very well having a good UV lamp and some great UV material but one of the most important elements of the UV curing process is the optimised and consistent application of the UV to the products being cured. Jenton have made UV conveyors and ovens to address this issue for many years.

# Jenton UV Conveyors



## Floor Standing Wide UV Curing Conveyor

Conveyor fitted with Jenton JA arc lamp (Hg) UV Curing system

Variable speed stainless steel production UV curing conveyor with integral UV measurement and PSU. Mounted on wheeled table with vacuum hold down and air extraction system.



## Floor Standing Wide UV Curing Conveyor

Conveyor fitted with GEW arc lamp (Hg) UV Curing system, heat shields and shuttered lamp

Variable speed stainless steel production UV curing conveyor with integral UV measurement, heat shield, sample roller and infeed extension. Mounted on fixed table with vacuum hold down and air extraction system.



## UV Benchtop Curing Conveyor

Customised and manufactured by Jenton UV

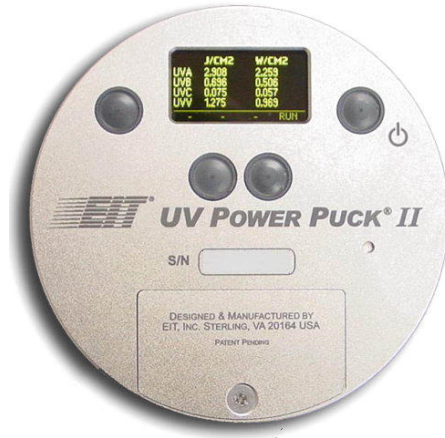
Robust, stainless steel, specifically designed for laboratory and development applications and continuous production line use. UV conveyors are available as bench-top or free standing with widths typically from 200mm to 800mm.



# Radiometers

Jenton has represented EIT radiometers in the UK for 30 years. Integrating radiometers and UV sensing for feedback control. UVC, UVB, UVA, UVV filters and also LED. NIST calibrated units for medical spec process control. Data logging systems particularly useful and impressive. Market leaders in the UV Curing measurement field with over 100,000 instruments sold.

# | Radiometers



## Uvicure Plus II & UV Power Puck II

Easy to use and display collected data in different configurations

- A graph illustrating the peak UV irradiance and total energy is displayed for each UV band
- Reference display allowing the user to store a run in the instrument memory to allow for easy comparison to current UV conditions

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## Power Puck® II Profiler and UviCure® Plus II Profiler

Added ability to transfer the irradiance profile to a computer

- Unit has display & functions the same as a Standard Puck in the same housing
- Profile on computer displayed at fixed sample rate of 128 Hz, approximately 100 minutes of data collection time available
- User changeable AAA batteries

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## UV PowerMAP II

Designed to measure UV broadband sources in four EIT spectral regions

- User adjustable from 128-2048 (Hz) samples per second
- Supports 65 minutes of data collection at 2048 Hz
- Typical battery life is 100 minutes Rechargeable in +/- 90 minutes

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# Radiometers



## LEDMAP™

Designed to measure LED sources in high speed applications

- LED Profiling Radiometer that provides UV and Temperature Profiles in addition to irradiance ( $W/cm^2$ ) & energy density ( $J/cm^2$ ) values
- User adjustable sample rate (128-2048 Hz), 40  $W/cm^2$  dynamic range, large memory, rechargeable batteries

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## LEDcure® Four Band Profiler

One instrument: Two options

- Has all four EIT L-Bands in one portable unit with a dynamic range of 40  $W/cm^2$
- Is easy to use with individual L-Band Irradiance ( $W/cm^2$ ) and Energy Density ( $J/cm^2$ ) values shown on the display along with low-resolution irradiance profile

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## LEDcure®

Designed specifically to measure the UV generated by industrial UV LED systems

- Easy to use, provides Irradiance ( $W/cm^2$ ) and Energy Density ( $J/cm^2$ ) and Irradiance Profile on the display
- High dynamic range (40  $W/cm^2$ ), user changable battery

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# UV Adhesives

JentonUV are proud to represent EMI Adhesives (Colorado, USA) who are the market leaders in opto-electronic, electronic & medical device manufacturing adhesive both epoxy and acrylate based. High performance with low shrinkage for Opto-electronics and excellent bond strength to glass, metals and ceramics. ISO 10993 & USP class VI for medical device manufacturing.



# | UV Adhesives



## Conformal Coatings

### The EMCAST™ 1900 Series

The EMCAST™ 1900 Series of UV curable epoxies represent a new generation of Conformal Coatings; all are 100% solids, contain no solvents and are curable with long wave ultra violet light.

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## Electronic Applications

### Electronics and general adhesive applications

EMCAST, EMI's core adhesives range of epoxies and other UV Adhesives for Electronics and general adhesive applications. Featuring very low levels of ionic contamination and exceeding the requirements of NASA Reference Publication 1124 on outgassing.

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## Medical Devices

### Unique to the medical market.

EMI's mCast medical products of adhesives and hydrophilic coatings cure quickly either with UV or visible light and are available with secondary heat cure capabilities for shadowed areas in assemblies.

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## Optoelectronic Applications

### Designed for fast, precise bonding of optical and electronic components

Low shrinkage, clear UV Adhesives for Photonic and Fibre Optic Assemblies, all OPTOCAST materials are designed for fast, precise bonding of optical and electronic components. Featuring low stress, optical clarity, minimal shrinkage upon cure, very low coefficient of thermal expansion (C.T.E.) values, and excellent moisture resistance.

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For more information on any of our products please contact us:

Jeremy Woodbridge - [jwoodbridge@jenton.co.uk](mailto:jwoodbridge@jenton.co.uk)

Richard Little - [rlittle@jenton.co.uk](mailto:rlittle@jenton.co.uk)

**[sales@jenton.co.uk](mailto:sales@jenton.co.uk)**

**+44 (0)1256 892 194**

9/10 Ardglan Industrial Estate. Evingar Road  
Whitchurch, Hampshire RG28 7BB



Jenton



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