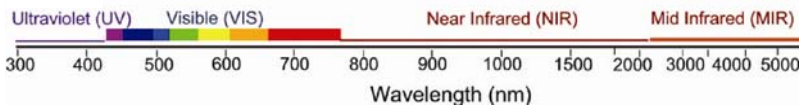




DESCRIPTION

The iCure™ AS200 is a thermal spot curing system that is used to cure conventional thermal adhesives. The unit provides a versatile and cost effective solution that delivers high optical energy with a significant amount of infrared radiation. The infrared radiation is strongly absorbed by thermal adhesives allowing faster and better quality cures. A sophisticated on board micro-processor monitors system performance, allows for a flexible user friendly interface and offers a range of reporting features. Fitted with a programmable optical attenuator, the iCure™ AS200 allows the user to program and save a variety of curing profiles. Parameters such as radiation intensity and exposure times are easily and accurately controlled.



INFRARED: A CLEAN SOURCE OF HEAT

Infrared (IR) is part of the electromagnetic spectrum and lies just beyond red color of visible light. Infrared is invisible. However it has properties similar to light: it travels at the speed of light and it can be focused. When IR radiation is absorbed by an object, heat is generated internally in the object as IR causes the atom of the object to vibrate, raising its temperature. Infrared heating is the preferred source of heating for many applications because of the unique benefits it offers.

IR BENEFITS

- **Non contact heating** – Higher quality product
- **One stage heat transfer** – High energy efficiency
- **Low thermal inertia** - Shorter heat up and cool down time
- **No combustion by-product** – Clean system

ICURE AS200 FEATURES

- **Reduce curing time by over 75%**
- **Alternative to UV Curing**
- **Shutter with 100 ms response time** - High controllability and control accuracy
- **Foot pedal** - Hands free operation
- **Touch screen** – Easy user interface
- **SmartSense™ system monitoring** - Extended lamp life and performance
- **Networking Capability**

iCure™ AS200 Thermal Spot Curing System



APPLICATIONS

- Spot curing of thermal epoxies
- Bonding and fixing of plastic and glass components
- Fixing of lenses
- Temporary fixing of miniature components
- Precision assembly and bonding of semiconductor components
- Focused energy for micro soldering
- Localized heat welding of thermoplastics

SPECTRAL POWER DISTRIBUTION*

IRRADIANCE	APPLICATION
UV + visible	Radiation cured adhesives
Near infrared	Soldering and plastic welding
Mid infrared	Heat-cured adhesives
Total Light	Broad radiation spectrum for faster heat cures

*Total light irradiance: 90W/cm²

TYPICAL CURE PROFILES

TYPE ADHESIVE	MANUFACTURER'S RECOMMENDATION	WITH ICURE SPOT CURING SYSTEM
Epotek 353ND	1 min. @150°C	15 sec.*
Epotek H20E	5 min. @150°C	30 sec.*
Dymax 9001	15 min. @150°C	15 sec.*
EMI3410	10 min. @150°C	5 sec.*
Trabond 123	1 min. @150°C	20-30 sec.*

* On certain substrates

SPECIFICATIONS

Lamp	200 Watts UHP Mercury Vapor Arc
Rated lamp life	Over 1500 hours (continuous operation)
Optical Spectrum	300 – 3600 nm
Output irradiance	Full optical spectrum, 90W/cm ²
Lightguide	1.2 m length, 3.6 mm diameter output (other configurations available)
Lightguide bend radius	200 mm
Spot size	3.6 mm at the output of the lightguide
Warm-up Period	90 seconds (typical)
Power	85-240 VAC 50/60 Hz
Control Panel	Touch Screen
Ports	Ethernet 10/100Mb, 6 x USB Host, 1 x USB Client, 1 x Audio Input 2 x Audio Outputs, Foot Pedal Switch Input, PCI-Express Expansion port
Dimensions (L x W x H)	13.3" x 7.1" x 7.9" (33,8cm x 18,0cm x 20,1cm)
Weight	9.9 lbs (4,5 kg)
Operating Temperature	-10C to +45C (14F to 113F)
Included	Lamp mod., lightguide, power cord, foot pedal, user man., glasses
Warranty	1 year

REGULATORY COMPLIANCE

Electromagnetic Compatibility (EMC)	FCC Part 15, ICES-003, EN55022, EN55024, EMC Directive 2004/108/EC
Safety	UL 61010-1, CAN/CSA-C22.2 No 61010-1-04, EN 61010-1, EU Low Voltage Directive 2006/95/EC
CE Marking	EMC Directive - 2004/108/EC, Low Voltage Directive (LVD) – 2006/95/EC

Contact IRphotonics for prices and availability or to obtain the name of your local representative.
Hg-Lamps contain mercury. The lamp must be disposed in accordance with local rules and regulations.
Consult: www.lamprecycle.org for more information.

IRphotonics has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation.