

High Intensity Ultraviolet Light Sources for Spot Curing

The Green Spot™ is the answer for today's solvent free manufacturing environment.

The Green Spot uses state of the art components assembled to give you a reliable and powerful UV spot cure.

The Green Spot has unique features that set it apart from other spot cure systems.



The Green Spot and Emerald are machines which produce an intense ultra-violet (UV) source of light which is used to trigger a chemical reaction causing the adhesive, coating, or ink to cure almost instantly. The materials to be cured are formulated specifically for this process.

The Green Spot and Emerald are designed for curing small areas of product in an automated or manual assembly process. Aside from the favorable environmental issues the prime advantages of the UV curing process are:

- The parts bond rapidly simplifying the assembly fixture and reducing the number of rejected parts attributed to component movement.
- UV adhesives are single part and do not require mixing.
- Not using ovens for curing facilitates bonding by avoiding the stress of thermal expansion and contraction.
- Instant cures reduce the number of rejected parts due to particle contamination.
- Decreasing cure time avoids a production "bottleneck".

Green Spot and Emerald Features:

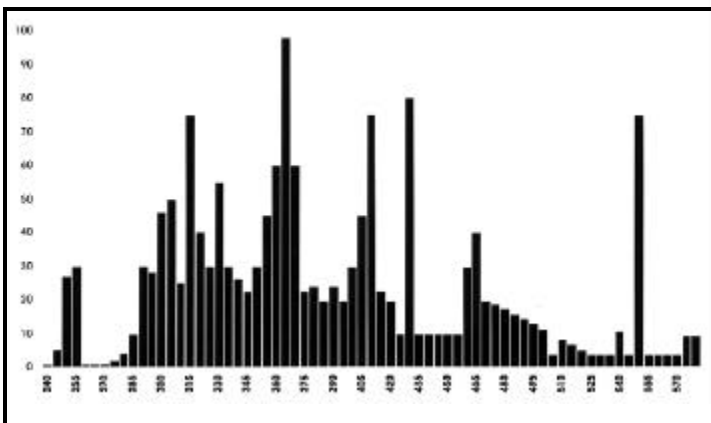
- High Performance 100 watt Solid State Power Supply
- Digital shutter timer with foot switch
- Dual fan cooling system
- Digital bulb life hour meter
- Manual-Robotic shutter interface switch
- Standard 5mm x 1 meter liquid filled light guide
- Comes complete with light guide, footswitch, power chord, lamp reflector assembly, instruction manual, and glasses.

Lamp Spot Cure Spot Cure Spectral Output

Most UV Chemistries require a narrow band of UV around the 365nm range. However, chemical technology changes. The UV source, Inc. family of products are designed to accommodate changes from one end of the spectrum to the other.

Green Spot and Emerald Warranty for Overseas Customers

24 months parts and labor with product shipped to Polar Power, Inc. in Carson, California. Freight costs to and from our repair facility are not covered under the warranty. Polar will provide technical assistance if the buyer elects to perform the repair on site. The Green Spot and Emerald are very reliable and simple to maintain. The UV lamp is considered a consumable item and carries a 3 month warranty.



High Intensity Ultraviolet Light Sources for Spot Curing

Lamp Reflector Assembly Patent Pending Design

- Easy access to lamp reflector assembly
- No tools needed to change - less production downtime
- Vertical bulb orientation gives high UV output and long life

Green Spot Machine Specifications

- All anodized aluminum
- Clean room ready; class 100
- Weight 14 pounds Small 9.9 width X 12.5 depth x 10.5 inches height.

Emerald Machine Specifications

- All anodized aluminum
- Clean room ready; class 100
- Weight 11 pounds
- Small 6 width X 12 inch depth x 12 height.
- Quantities of six or more can be custom made to

Accessories

Accessories optimize The Green Spot UV Curing System. UV Source tries to keep things simple for your operation. We offer a variety of accessories that will ensure your applications are successful.

Dual Light Guide

Allows you to cure with two 3mm diameter light sources at once.



Spot Cure Intensity Meter

Monitors system performance and provides an easy way to qualify UV out and process control.

- Measures UV Intensity up to 19.99W/cm²
- Accepts Multiple Light Guide Sizes
- Totally Self-Contained and Battery Powered.
- Meets ISO-9000 Requirements - NIST Traceable

UV Exposure Meter

Monitors low levels of UVA and UVB in the work area or outside.



Applications Include:



Fiber Optics - Splicing, bundling, repair and bonding lenses to end points.

Research and Development - Laboratory testing of UV adhesives, coatings and UV measurement.

Hearing Aids - Sealing, bonding, coating of inner electronics. UV audible fleshtones and other pigmented colored adhesives.

Encoders - Barcode scanners and scanning equipment.

Disc Drive Manufacturing - Thin film head bonding, wire tacking, and voice coil attachment, MR heads, Read/Write heads.

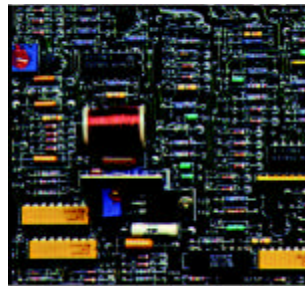
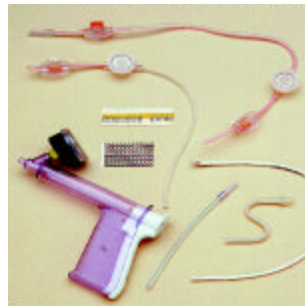
Medical Manufacturing - Any spot curing application where UV Class VI adhesive is required such as bonding plastics, stainless steel, optics, endoscopes manufacturing and repairs, bending rubbers, catheters, and many other medical and surgical devices.

Automotive - Air bag sensors, cure in place gaskets, UV coatings and adhesives. Glass and Crystal - Instant bonding and repair.

Electronics - Instant tacking of wire and components, flex circuit reinforcement, conformal coating rework, potting, sealing, staking, chip bonding, coil winding, and wire termination.

Stereo Lithography - Repair or bonding of SLA parts.

Space and Satellites - Specialized adhesive application. Communication devices.





Let's use the internet! My e-mail address is
 peter@polarpowerinc.com
 Visit our web site at www.polarpowerinc.com

Green Spot Price List

Price in U.S. Dollar

Item	Part #	Description	Price (CIF Destination)
1	GS	Green Spot UV Curing System (Including Power Supply, Standard-Single Light Guide 5mm X 1000mm, UV safety Glasses, Foot Switch Control, Operation/Repair Manual)	\$3,750.00
2	GSE	Green Spot Emerald Curing System (Including Power Supply, Standard-Single Light Guide 5mm X 1000mm, UV safety Glasses, Foot Switch Control, Operation/Repair Manual)	\$3,750.00

Recommended Spare Parts

Item	Part #	Description	Price (FOB Los Angeles, CA)
3	GS3100	Lamp/Reflector Assembly Complete (Lamp life 500hrs)	\$350.00
4	GS2103	Foot Switch Control	\$49.00
5	GS2101	UV Filter Protective Glasses	\$25.00
6	GS2102	Intake Fan Filter Pack - 5 Filters in Pack	\$8.00
7	KG4	KG-4 Infra-Red Blocking Lens	\$32.00

Recommended Accessories

8	GS2365	EIT Spot Cure Intensity Meter	\$795.00
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Light Guides

9	GS2201	5mm X 1000mm, Standard	\$465.00
10	GS2204	8mm X 1000mm	\$1110.00
11	GS2205	Dual 2 X 3mm X 1000mm	\$1,285.00
12	GS2206	Dual 2 X 3mm X 1500mm	\$1,380.00
13	GS2210	5mm X 1500mm	\$800.00
14	GS2230	3mm X 1000mm	\$598.00
15	GS2231	5mm X 2000mm	\$780.00

Repair Parts

16	GS3001	Power Supply, 100W	\$915.00
17	GS2151	Cooling Fan	\$24.00
18	GS2155	Shutter Timer	\$255.00
19	GS2156	Lamp Hour Meter	\$47.00
20	GS2157	Solenoid	\$31.50
21	GS2160	Fuse, 3A, Power Board	\$1.20

Weight & Dimensions

GS Unit	9.75 X 10.75 X 12.5 inches	14 lbs.
GS Unit w/ box	15.25 X 15.25 X 16 inches	17.5 lbs.

Please contact us with your quantity requirements for quote.