

Ultra LightTM

Advanced Ultraviolet System

FOR CURING INKS, ADHESIVES AND COATINGS

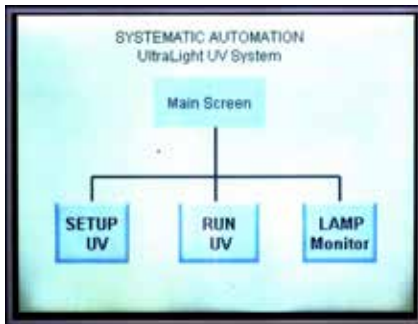


400 WATTS PER INCH OF UV POWER FOR EFFICIENCY AND SPEED

EASY TO USE VERSATILE CONTROL

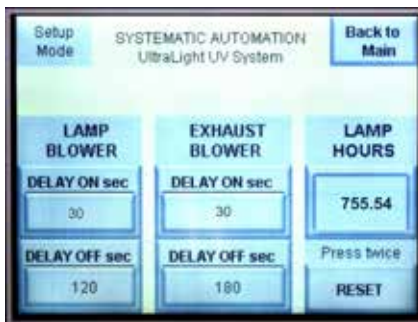
Touch Screen Control Panel

- Mounts anywhere on your conveyor, machine or system.
- Quick disconnect cable in standard 10 foot (300 cm) length.
- One panel individually controls and monitors up to 10 power supplies.
- Available in other languages.



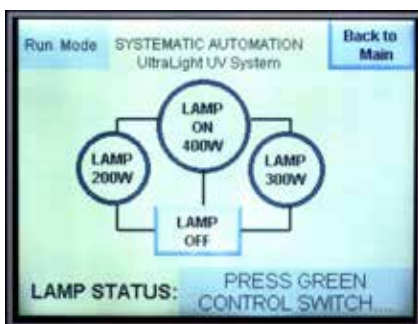
← MAIN OPERATIONAL SCREEN

- All the functions of the *Ultra Light*™ system are accessed from the touch screen control panel.
- The system consists of three modes of operation: Setup, Run and Monitor. Each mode is simply chosen by a touch of a button on the main screen.
- The operator can switch between all modes even when the UV is in operation.



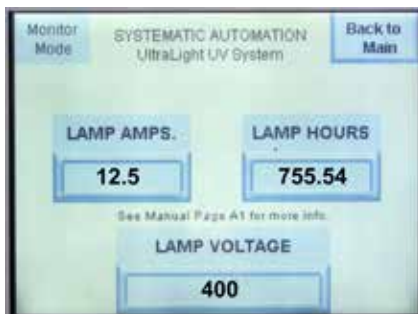
← SETUP MODE SCREEN

- Setup mode is a password protected screen that allows the operator to set the delay on/off time of the blower. Multiple blowers may be configured in a system.
- The total operational hours of the lamp is displayed in a message box. The operator resets this hour meter reading when a new lamp is installed in the system.



← RUN MODE SCREEN

- Different lamp power settings (200/300/400 WPI) are chosen by a simple touch of the screen.
- Status of the UV lamp as well as step by step instructions for the UV system are displayed in the message box at the lower right section of the screen. This straight forward and intuitive approach allows a novice operator to operate the *Ultra Light*™ system easily.

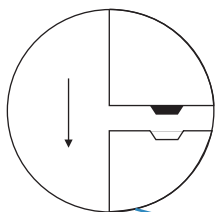
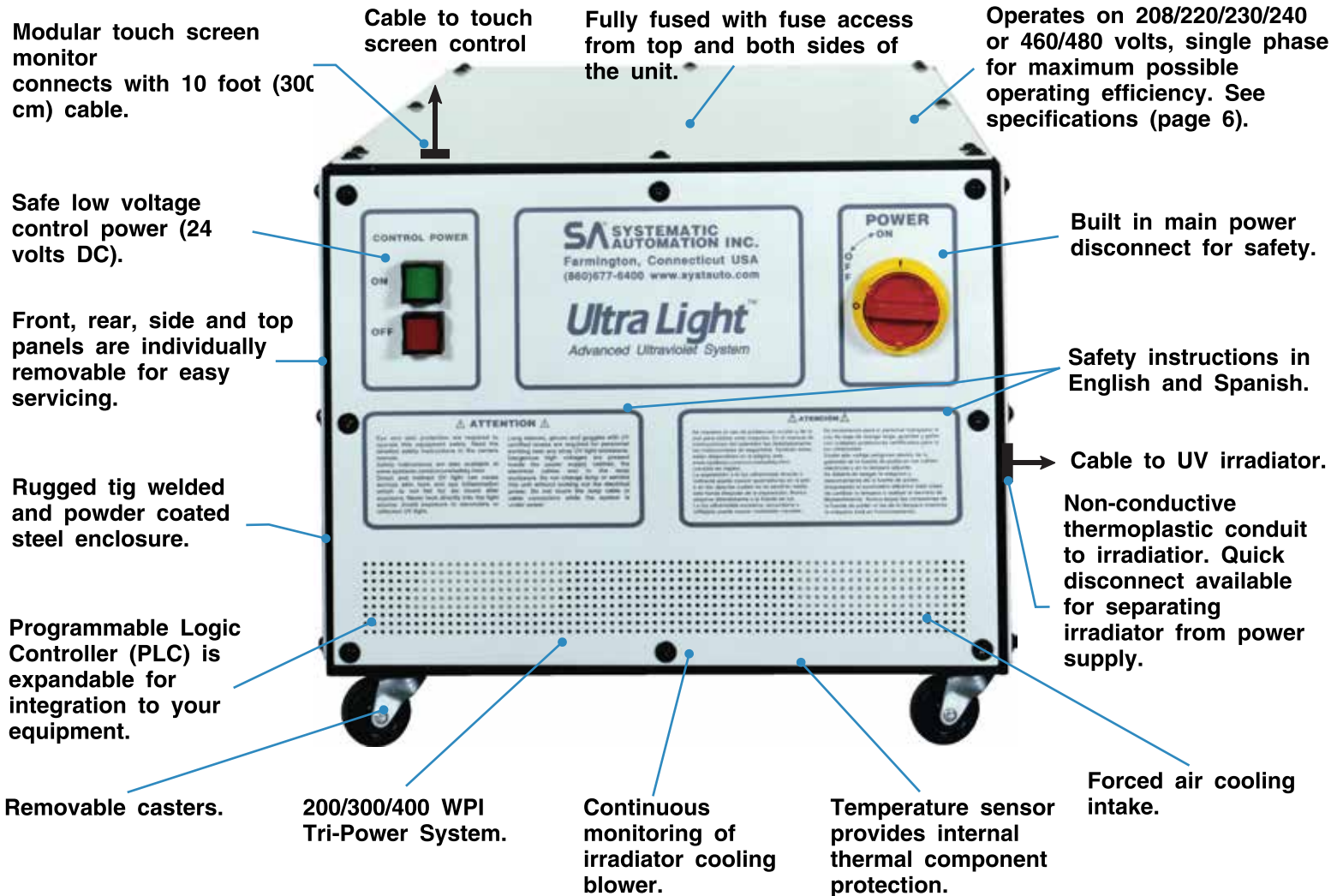


← MONITOR MODE SCREEN

- Condition of the UV lamp, lamp current and total lamp operation hours are displayed on the monitor mode screen.

It just can't get any simpler!

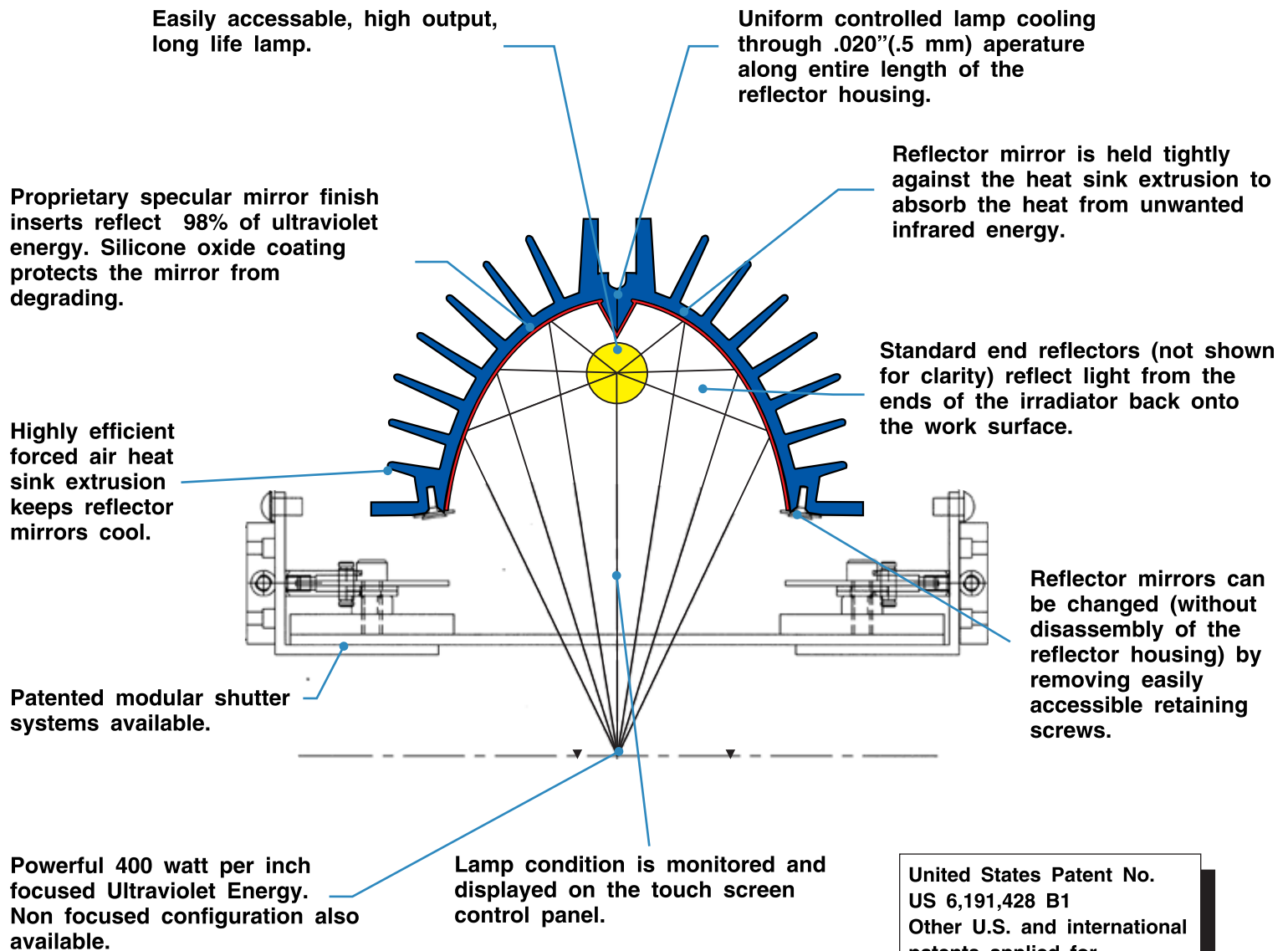
RUGGED AND RELIABLE 400 WPI POWER SUPPLY UNIT



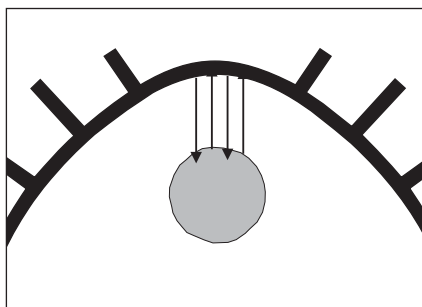
Power supplies are stackable. One touch screen control panel can individually operate up to 10 power supply units.



REVOLUTIONARY IRRADIATOR DESIGN



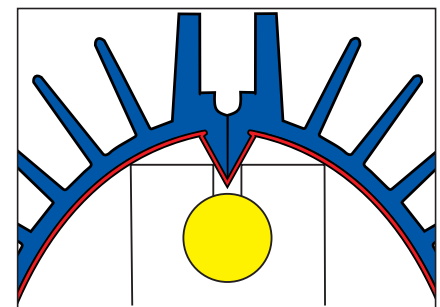
Conventional Reflector



20% UV energy loss

Conventional reflectors lose up to 20% of their energy to heat from light reflected toward the lamp. The *Ultra Light*™ system directs this light to the reflector and to the work surface, not back through the lamp. This design provides the maximum possible energy efficiency.

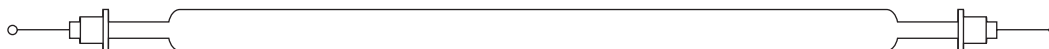
Ultra Light™ Reflector



MAXIMUM EFFICIENCY

INDUSTRY STANDARD LAMPS

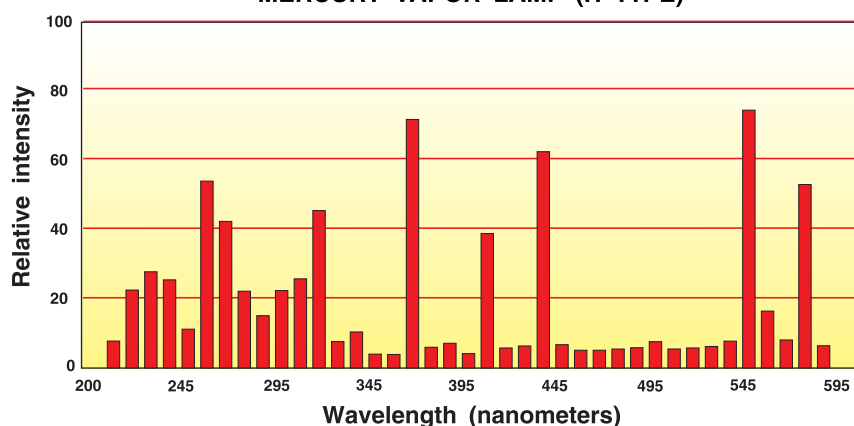
In stock for immediate delivery



400 Watts Per Inch UV power and versatility

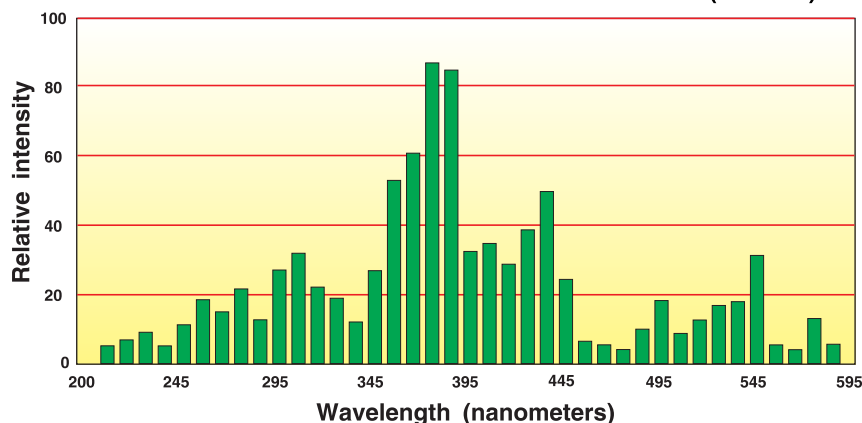
The **Ultra Light™** system allows you to use different lamp types, each with its own unique UV spectral output. Short wave UV is absorbed at the surface of the material being cured while long wave UV penetrates deeper. The photoinitiator is the component in UV curable materials that absorbs the UV light causing the material to cure. Effective curing is achieved by matching the spectral output of the lamp to that required by your formulation and film thickness. Our knowledgeable staff can recommend the best lamp type for your application.

MERCURY VAPOR LAMP (H TYPE)



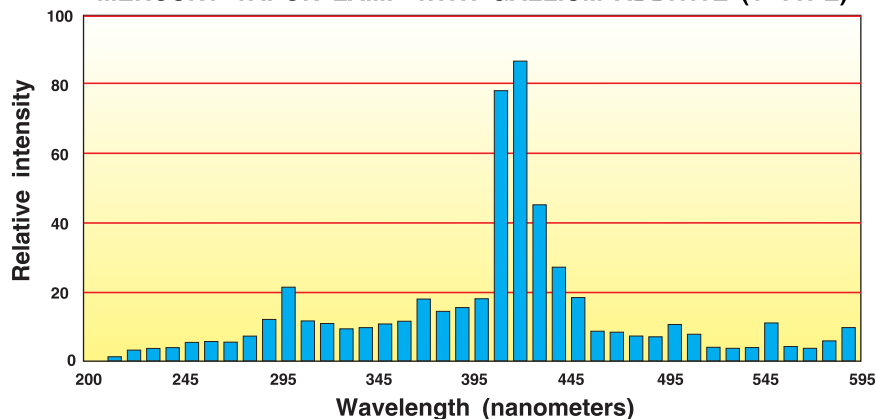
← The mercury lamp has a strong output in the short wave UV range between 220 and 320 nm (nanometers) and a spike of energy in the longwave range at 365 nm. The H lamp is a good choice for clear coatings and thin ink layers and produces hard surface cures and high gloss finishes.

MERCURY VAPOR LAMP WITH IRON ADDITIVE (D TYPE)



← The addition of iron to the lamp yields a strong output in the longwave range between 350 and 400 nm while the mercury component maintains good output in the short wavelength range. The D lamp is a good choice for curing heavily pigmented inks, adhesives, and thick laydowns of clear materials.

MERCURY VAPOR LAMP WITH GALLIUM ADDITIVE (V TYPE)



← The addition of gallium to the lamp yields a strong output in the longwave range between 400 and 450 nm. This makes the V lamp a good choice for curing white pigmented inks and base coats containing titanium dioxide which blocks most shortwave UV.

→ Call (860) 677-6400 for technical assistance

SPECIFICATIONS

Lamp Arc Length	Lamp Options	Lamp Output	Cooling	Operator Interface	Voltage	Amperage based on 208/460 Volts 60 Hertz	Irradiator Dimensions HxWxD	Power Supply Dimensions HxWxD	Shipping Weight (Approx.)
6" 152mm	H Type D Type V Type (see page 5)	400 watts per inch	Forced Air	(touch screen optional)	208 220/240 460/480 60hz*	20/10 A	6"x8"x17" 152x203 x432mm	15"x20"x20" 381x508 x813mm	250 lbs. 113 kg.
12" 304mm	H Type D Type V Type (see page 5)	400/300/200 watts per inch	Forced Air	Touch Screen	208 220/240 460/480 60hz*	30/15 A	6"x8"x23" 152x203 x584mm	15"x20"x20" 381x508 x813mm	375 lbs. 170 kg.
18" 451mm	H Type D Type V Type (see page 5)	400/300/200 watts per inch	Forced Air	Touch Screen	208 220/240 460/480 60hz*	42/25 A	6"x8"x29" 152x203 x736mm	15"x20"x32" 381x508 x813mm	425 lbs. 192 kg.
25" 635mm	H Type D Type V Type (see page 5)	400/300/200 watts per inch	Forced Air	Touch Screen	208 220/240 460/480 60hz*	60/30 A	6"x8"x36" 152x203 x914mm	15"x20"x32" 381x508 x813mm	450 lbs. 204 kg.
30" 762mm	H Type D Type V Type (see page 5)	400/300/200 watts per inch	Forced Air	Touch Screen	208 220/240 460/480 60hz*	75/35 A	6"x8"x41" 152x203 x1041	30"x20"x32" 762x508 x813mm	500 lbs. 226 kg.
38" 965mm	H Type D Type * V Type * (see page 5)	400/300/200 watts per inch	Forced Air	Touch Screen	208 220/240 460/480 60hz*	90/45 A	6"x8"x49" 152x203 x1244mm	30"x20"x32" 762x508 x813mm	525 lbs. 238 kg.
48" 1219mm	H Type D Type * V Type * (see page 5)	400/300/200 watts per inch	Forced Air	Touch Screen	208 220/240 460/480 60hz*	120/55 A	6"x8"x59" 152x203 x1498mm	30"x20"x32" 762x508 x813mm	575 lbs. 260 kg.
Sizes up to 70" 1778mm available	H Type D Type * V Type * (see page 5)	400/300/200 watts per inch	Forced Air	Touch Screen	Consult factory	Consult factory	Consult factory	Consult factory	Consult factory

*60hz is standard, 50hz is optional

*60hz systems in Lamp Arc length 36" to 44" and 72" to 88" are only available with H type lamps

*50hz systems in Lamp Arc length 46" to 54" and 92" to 108" are only available with H type lamps

Disclaimer: Specifications subject to change without notice. Specifications may vary with specific configuration of actual machine. The data contained herein are furnished for information only and is believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazard that may be involved in the handling and use thereof. In light of the foregoing, Systematic Automation Inc. specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Systematic Automation's products. Systematic Automation Inc. specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. For warranty information contact our sales staff.

STANDARD ACCESSORIES

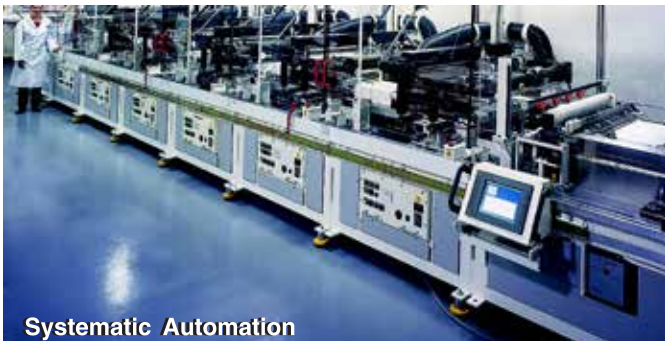
Dozens of standard systems for curing flat,
3 dimensional and cylindrical items are available

CONVEYORIZED SYSTEMS FOR FLAT AND 3 DIMENSIONAL PRODUCTS.



SHUTTERED UV SYSTEMS FOR AUTOMATED PRODUCTION LINES

United States Patent No. US 6,230,876 B1



SPIN CURES FOR CYLINDRICAL AND IRREGULAR SHAPED PRODUCTS.

United States Patent No. US 6,397,491 B1



Whatever your application, we can provide
the right solution. Call for application
assistance on our full line of UV equipment.

→ Call (860) 677-6400 for
technical assistance

**We are located in central Connecticut, 30 minutes from Bradley International Airport
and 2 hours from New York City or Boston**



HEADQUARTERS AND MANUFACTURING FACILITY



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www.systauto.com/uvcure/uvcure.html