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 UltraLight™ 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 UltraLight™ 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

Modular touch screen monitor connects with 10 foot (300 cm) cable.

Cable to touch screen control

Fully fused with fuse access from top and both sides of the unit.

Operates on 208/220/230/240 or 460/480 volts, single phase for maximum possible operating efficiency. See specifications (page 6).

Safe low voltage control power (24 volts DC).

Built in main power disconnect for safety.

Front, rear, side and top panels are individually removable for easy servicing.

Safety instructions in English and Spanish.

Rugged tig welded and powder coated steel enclosure.

Cable to UV irradiator.

Programmable Logic Controller (PLC) is expandable for integration to your equipment.

Non-conductive thermoplastic conduit to irradiator. Quick disconnect available for separating irradiator from power supply.

Removable casters.

Forced air cooling intake.

200/300/400 WPI Tri-Power System.

Continuous monitoring of irradiator cooling blower.

Temperature sensor provides internal thermal component protection.

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

Easily accessible, high output, long life lamp.

Uniform controlled lamp cooling through .020” (.5 mm) aperture along entire length of the reflector housing.

Proprietary specular mirror finish inserts reflect 98% of ultraviolet energy. Silicone oxide coating protects the mirror from degrading.

Reflector mirror is held tightly against the heat sink extrusion to absorb the heat from unwanted infrared energy.

Highly efficient forced air heat sink extrusion keeps reflector mirrors cool.

Standard end reflectors (not shown for clarity) reflect light from the ends of the irradiator back onto the work surface.

Patented modular shutter systems available.

Reflector mirrors can be changed (without disassembly of the reflector housing) by removing easily accessible retaining screws.

Powerful 400 watt per inch focused Ultraviolet Energy. Non focused configuration also available.

Lamp condition is monitored and displayed on the touch screen control panel.

US 6,191,428 B1
Other U.S. and international patents applied for.

Conventional Reflector

Conventional reflectors lose up to 20% of their energy to heat from light reflected toward the lamp. The UltraLight 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.

20% UV energy loss

MAXIMUM EFFICIENCY
INDUSTRY STANDARD LAMPS
In stock for immediate delivery

400 Watts Per Inch UV power and versatility

The UltraLight® 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 knowledgable 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

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

*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

SPIN CURES FOR CYLINDRICAL AND IRREGULAR SHAPED PRODUCTS.

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

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