Spot light source

LAMP WARRANTY: Guarantees a long operating life of 4000 hours

LC8

Light guide is sold separately.
Computer is provided by the customer.
Two new functions for making photocuring simple and reliable!

1. **Operate it from your PC via the RS-232C port.**

   This unit has a built-in RS-232C port to allow PC or microcomputer control that was impossible up until now. Making program entries (irradiation intensity, irradiation time) for the Memory Step is now accurate and easy. You can operate the light source even in a location where direct access to it is impossible. Using the USB adaptor connector lets you use a PC even if it has no RS-232C port. We also offer sample software that displays easy-to-use setup screens, etc.

2. **Light intensity monitor with internal optical feedback function**

   This unit maintains the light intensity at a fixed level for stable irradiation. Light intensity usually varies over time during lamp operation. Our light source, however, can constantly maintain the preset light intensity since it regulates light intensity while monitoring it with an internal sensor. This spot light source also has internal light feedback and so does not need a dedicated feedback light guide used in conventional products. The irradiation intensity (reference value) is displayed as a digital value (in watts) on the LCD display. This eliminates problems that occur due to human error and different operating conditions. Full control even of detailed settings makes it ideal for fully automated production lines.

**Feature**

**Memory Step™ for 9 types 7-step programs**

Program the irradiation intensity and irradiation time to any level you want! Freely set the UV irradiation conditions to match the component you want to bond. The LIGHTNINGCURE LC8 lets you store 9 types of 7-step programs in the memory, so optimal irradiation conditions matching the component for bonding can be set just by changing the program number. This holds true even when multiple bonding components are flowing in the same production process or when shifting to different production lines. The LC8 is especially ideal for components that must be fixed in place with high precision. The mounting positions of these components often deviate due to stress warping and contraction in the adhesive that causes positional shifts. Using the LC8 gives better production stability and higher product yield especially for components demanding high position precision.

---

**Program example 1: Increasing light intensity in 7 steps**

**Program example 2: Random light intensity and irradiation time settings**

**Program example 3: Low light intensity and then long-term high intensity**
Features & Functions

Long service life

Guaranteed service life: 4000 h (-01A type and -02A type)
UV intensity generally declines with lamp operating time. Hamamatsu has drastically improved these drops in light intensity by using a mercury-xenon lamp whose electrodes suffer almost no wear and an improved optical system.

![Variations in UV intensity [365 nm] over time (typical values)](image)

Anybody can use it! One-touch replacement!

Lamp is replaceable in less than 30 seconds!
Just insert the lamp to replace it. No wiring to worry about. This is so easy you can do it with one hand.
Lamp is the cassette type with a preset optical axis so no troublesome optical alignment is needed after replacement.

Full line-up of external control equipment
(RS-232C and D-sub connector: standard feature, terminal block: option E9795-01 [sold separately])

You can turn the lamp on and off and control the shutter externally. An alarm signal output is also available. Signals and data can be exchanged with the PC via the RS-232C.

Clever layout allows a compact body

Superb features are concentrated into a compact body. Weight has been reduced to a mere 6.4 kg.
Area of installation can be reduced.
Stacking the units allows saving even more space.

Great energy saving benefits

Our 200 W lamps have high intensity equal to lamps in the 250 W class. Light sources using our 200 W lamps also have less power consumption than those using 250 W lamps.
Power consumption is the lowest in its class (280 VA Typ.). This means using multiple UV light source units at production facilities will yield tremendous energy saving benefits.

Power supply compatible in world-wide

Internal power supply automatically switches to a 100 V or 200 V input.
There is no problem when shifting the operating location in world-wide.

Selectable positions of light guide port

A front port type and a rear port type are available. The front port type allows lamp replacement from the operation panel side. This helps hold limits on equipment movement and installation location to a minimum.
Select the light guide port position that best matches the component for bonding and its mounting position.

Light intensity adjustable anywhere within 0 to 100 %!

An electric diaphragm mechanism allows a digital display of the relative light output from 0 % to 100 % on the LCD panel. Unlike conventional analog scales, this means highly precise light irradiation. Light output also can be controlled from an external device, so meeting various kinds of measurement conditions is now even easier.

![Light intensity vs. panel display](image)

Panel display (%) vs. output intensity

- UV spot light source: LC8 series
- Light guide: A10014-50-0110 (5 mm fiber diameter, 1 mm length)
- Unit: mm
"Long Life" "High Output"

**STRUCTURE**

**Easy filter replacement**

A single screwdriver is all you need to replace the filter via the upper filter insertion port. There is no need to open any cover as on conventional units, so you save even more replacement time.

Filters and filter holder are sold separately.

**High efficiency optical system - no heat problems**

The LC8 combines a mercury-xenon lamp having high-intensity UV line spectra with an elliptical reflector (UV cold mirror) having reflectivity higher than 90% in the UV range and a quartz light guide with excellent UV transmittance. The lamp can be operated in a horizontal position, so the optical system has less light loss compared to lamps operated in an upright position, allowing the UV light to input efficiently to the light guide. The elliptical reflector efficiently reflects only the UV light, and lets heat rays and visible light pass through to prevent adverse effects from heat on the irradiated point.

**Structural View**

![Structural View](image)

- Filter (sold separately)
- Visible light & Heat rays
- Elliptical reflector (UV cold mirror)
- Light guide (sold separately)
- UV light
- Cassette type lamp

**No optical axis alignment**

Uses a highly stable mercury-xenon lamp* developed expressly for analysis and measurement applications. There is almost no wear on the electrodes and no positional shift of the arc point. Absolutely no optical axis alignment is needed, even during lamp replacement or during lamp use.

**Electrode wear**

Before use

![Before use](image)

After 4000 hours of use

**CHARACTERISTICS**

**Selectable wavelength**

The LC8 allows you to select the wavelength range you need. The "-01A" type suitable for wavelengths around 365 nm and the "-02A" type enhanced for 250 nm band are provided. Select the light source that matches the adhesive agent you use. These can also be combined with UV-transmitting filters that cut visible and infrared light, and minimize heat effects on the irradiated point. A visible light type is also available (radiant wavelength range from 400 nm to 700 nm).

**Radiant spectral distribution**

![Radiant Spectral Distribution](image)

Visible light and the infrared rays can be cut, and it combine with the filter etc. that suppress the heat influence on the irradiation part to the minimum.

**High output**

**UV intensity: 4500 mW/cm² (-01A type, at 365 nm)**

The LC8 yields an extremely strong spectral distribution in the UV range most effective for UV curing. UV intensity distribution is dependent on the distance from the light guide output end to the target surface to be irradiated, as well as on the type of light guide used. The greater the distance from the light guide output end to the target surface, the more the maximum UV intensity drops and the more the light beam expands (see below).

**UV intensity distribution**

![UV Intensity Distribution](image)

Reference values for the data were taken using the LC8 Spot Light Source and the A10014-35-0110 quartz light guide (3.5 mm diameter, 1 m Length) with condenser lens E5147-04.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>L9566</th>
<th>L9588</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Guide Port</td>
<td>Rear</td>
<td>Operation panel (front)</td>
</tr>
<tr>
<td>Lamp Replacement Position</td>
<td>Operation panel (front)</td>
<td>Rear</td>
</tr>
<tr>
<td>UV Intensity (Typ.) *</td>
<td>-01A</td>
<td>-01A, -02A (L9588)</td>
</tr>
<tr>
<td></td>
<td>-02A</td>
<td>-02A (L9566)</td>
</tr>
<tr>
<td></td>
<td>-03</td>
<td>-03 (L8253)</td>
</tr>
<tr>
<td>Radiant Wavelength Range *</td>
<td>365 nm</td>
<td>300 nm to 450 nm</td>
</tr>
<tr>
<td></td>
<td>[250 nm band enhanced type] 240 nm to 400 nm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[Visible light type] 400 nm to 700 nm</td>
<td></td>
</tr>
<tr>
<td>Lamp for Maintenance **</td>
<td>L10852</td>
<td>L8253</td>
</tr>
<tr>
<td></td>
<td>-01A, -02A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-03</td>
<td></td>
</tr>
<tr>
<td>Lamp Service Life</td>
<td>Guaranteed life 4000 h</td>
<td>Guaranteed life 2000 h</td>
</tr>
<tr>
<td></td>
<td>(L10852)</td>
<td>(L8253)</td>
</tr>
<tr>
<td></td>
<td>-03 (8253)</td>
<td></td>
</tr>
<tr>
<td>Power Supply Input</td>
<td>100 V ac to 240 V ac (100 V / 200 V auto switching), single phase 47 Hz to 63 Hz</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>280 VA Typ.</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 6.4 kg</td>
<td></td>
</tr>
<tr>
<td>Operating Ambient Temperature</td>
<td>+5 °C to +35 °C</td>
<td></td>
</tr>
<tr>
<td>Storage Ambient Temperature</td>
<td>-10 °C to +70 °C</td>
<td></td>
</tr>
<tr>
<td>Operating and Storage Humidity</td>
<td>Less than 80 % (no condensation)</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**
- \* UV irradiance (at 365 nm) is measured in the center at a point 10 mm away from the output end of the A10014-35-0110 light guide (sold separately) with E5147-04, by using the Hamamatsu C6080-13 UV power meter.
- \* Major radiant wavelengths. Various optical filters (sold separately) can also be attached.
- \* L10852 is 200 W super-quiet mercury-xenon lamp. L8253 is 150 W super-quiet xenon lamp with ozone-free bulb.
- \* Standard quartz type is also provided.

### Optical Power Monitor with Optical Feedback E9793-02

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description / Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitoring Wavelength</td>
<td>365 nm *</td>
</tr>
<tr>
<td>Applicable Type</td>
<td>(L9566, L9588) -01A, -02A *</td>
</tr>
</tbody>
</table>

**NOTE:**
- \* Monitoring at other wavelengths is not possible.
- \* When optical power monitor order with L9566 and L9588, please tell us the type No. whether (L9566, L9588)-01A-02 or (L9566, L9588)-02A-02.
This equipment emits very strong ultraviolet light which is harmful to eyes and the skin. Also, as the light emanating from the light guide connection aperture contains infrared light in addition to ultraviolet light, its irradiation will cause heat generation. Be sure to observe following instructions for operation of the equipment.

- Never look directly into the light guide connection aperture or at the light emanating from the light guide. Strong ultraviolet light can cause visual disorder.
- Do not allow light to come into contact with skin. Contact with skin may cause sunburn-grade inflammation. Always wear safety glasses, gloves, and other appropriate protective gear when operating this equipment.
- Never allow light from the light guide to radiate onto flammable material.
- The unit includes an interlock that prevents the lamp from lighting while the top cover is open. Never attempt to override the interlock function by manually depressing the switch, as this may result in uncontrolled release of dangerous ultraviolet light.

- The mercury-xenon lamp employed started by a high-voltage (30 kV) pulse applied at the lamp electrodes. As protection against accidental electrical shock hazard, the design includes an interlock switch that disables lamp operation while the top cover is open. Never attempt to override the interlock function by manually pressing the switch, as this may result in uncontrolled release of dangerous ultraviolet light.

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- As the inside of the lamp housing becomes extremely hot during lamp operation, the design includes an interlock switch that disables lamp operation while the top cover is open. Never attempt to turn on the lamp by blocking the sensor window of the interlock switch.

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Lamps are filled with high pressure (approx. 1 MPa at room temperature) xenon gas (xenon gas and mercury in mercury-xenon lamps). When disposing of the used lamp, take appropriate measures in compliance with applicable regulations regarding waste disposal and correctly dispose of it yourself, or entrust disposal to a licensed industrial waste disposal company. In any case, be sure to comply with the regulations in your country, state, region or province to ensure the used lamp is disposed of legally and correctly.

This device is guaranteed for one year after delivery date from us. The warranty extends only to replacement of the products. The warranty does not cover damage due to misuse or natural calamity.
Various light guides using a core material with high UV transmittance are available ranging from the single type up to a 6-furcated type. Select the desired light guide that suits your application. We also welcome requests for custom light guides with different numbers of furcated ends, output end shapes and lengths.

* The exclusive light guide adaptor is necessary for the one of LC5/LC6.

**CUSTOM LIGHT GUIDE**

**DIMENSIONAL OUTLINE OF OUTPUT END**

(UNIT: mm)

(a) to (e): see the right table.

**LIGHT BEAM DISTRIBUTION**

Relative light intensity: with 100% equal to the intensity at position 10 mm away from the output end when the LC8 L9566-01 is used with the A10014-50-0110.

* Z: Distance from output end

**MAXIMUM INTENSITY FOR FURCATED FIBER**

**ACCESSORY**

**TYPE NO. GUIDE**

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Core Material</th>
<th>Output Diameter</th>
<th>Furcated</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10014</td>
<td>Synthetic silica</td>
<td>3.5 mm</td>
<td>04</td>
<td>15</td>
</tr>
<tr>
<td>A10015</td>
<td>Glass</td>
<td>7 mm</td>
<td>06</td>
<td>30</td>
</tr>
</tbody>
</table>

**MAIN LIGHT GUIDE**

<table>
<thead>
<tr>
<th>Type No.</th>
<th>(at 365 nm)</th>
<th>(at 365 nm)</th>
<th>(at 365 nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10014-35-0110</td>
<td>A10014-50-0110</td>
<td>A10014-70-0110</td>
<td></td>
</tr>
</tbody>
</table>

**TABLES**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>01</td>
<td>10</td>
<td>45</td>
<td>5.8</td>
</tr>
<tr>
<td>35</td>
<td>02</td>
<td>10</td>
<td>50</td>
<td>6.5</td>
</tr>
<tr>
<td>35</td>
<td>03</td>
<td>10</td>
<td>60</td>
<td>7.2</td>
</tr>
<tr>
<td>35</td>
<td>04</td>
<td>10</td>
<td>70</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>02</td>
</tr>
<tr>
<td>03</td>
<td>04</td>
</tr>
<tr>
<td>05</td>
<td>06</td>
</tr>
</tbody>
</table>

**NOTES**

- Relative light intensity: 100% equal to the intensity at position 10 mm away from the output end when the LC8 L9566-01 is used with the A10014-50-0110.

- Z: Distance from output end

*2 Relative light intensity: 100% equal to the intensity at position 10 mm away from the output end when the LC8 L9566-01 is used with the A10014-50-0110.
**CONDENSER LENSES**

Condenser lenses collect light emitted from a light guide and make it illuminate an object efficiently.

**DIMENSIONAL OUTLINE**

**LIGHT BEAM DISTRIBUTION**<Reference>

Hamamatsu also provides a special lens that uniformly illuminates an entire surface.

We offer a choice of lenses for uniformly irradiating an entire target area. We provide a condenser lens type that attaches to the tip of the light guide, and a uniform direct irradiation unit that attaches directly to the body of the spot light source.

This uniform direct irradiation unit allows uniform irradiation onto the target surface area with light intensity variations within about ±5%. Three different lens types are available according to the size of the irradiation surface area.

Efficiently emits light at wavelengths longer than 300 nm.

**CONDENSER LENSES** (Uniform illumination)

**DIRECT BEAM UNIFORM ILLUMINATION UNIT UNIFORMITY**

*The holder of the main body needs to be changed. The exclusive light guide adaptor is necessary for the one of LCS / LC6.*
Condenser lenses are recommended when illuminating an object located away from the light guide end.

**SHORT FOCAL POINT CONDENSER LENS**

- **E5147-11** (Output Diameter: 5 mm)
- **E5147-12** (Output Diameter: 3.5 mm)
- **E5147-08** (Output Diameter: 3.5 mm)

**RIGHT-ANGLE ILLUMINATIONS LENS**

- **E5147-07** (Output Diameter: 5 mm)
- **E5147-08** (Output Diameter: 3.5 mm)

**LIGHT BEAM DISTRIBUTION**

Relative light intensity: 100 % equal to the intensity at position 10 mm away from the output end without condenser lens *

* Z: Distance from output end

---

**DIRECT BEAM UNIFORM ILLUMINATION UNIT**

- **E10052**
- **E10052-01**

---

[unit: mm]
UV FILTERS

These filters transmit only the UV radiation needed for UV curing. Use of a UV filter minimizes heat generation on the illuminated surface making it ideal for use with parts and materials which are vulnerable to heat.

The following two filters are available according to the wavelength range to be blocked.

- **-03 type**: Transmits UV radiation very efficiently but blocks (absorbs) visible light.
- **-05 type**: Uses two filters to block visible to infrared light, achieving better absorption of heat rays than -03 type.

Both types have a long service life. Almost no drop in the transmittance even after 10,000 hours of operation.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Number of Filter Used</th>
<th>Transmittance Wavelength (nm)</th>
<th>UV Transmittance (%)</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9616-03</td>
<td>1</td>
<td>280 to 400</td>
<td>Approx. 85</td>
<td>High UV transmittance</td>
</tr>
<tr>
<td>A9616-05</td>
<td>2</td>
<td>300 to 400</td>
<td>Approx. 80</td>
<td>Cuts off heat over a wide spectral range more efficiently than -03 type.</td>
</tr>
</tbody>
</table>

### TEMPERATURE COMPARISON ON THE ILLUMINATED SURFACE

- **SPOT LIGHT SOURCE**: LC8 LS666-01A
- **LIGHT GUIDE**: A10014-50-0110
- **OBJECT BEING IRRADIATED**: GLASS BOARD
- **DISTANCE FROM OUTPUT END**: 10 mm

- **NO FILTER**: 500 mW/cm² (at 365 nm)
- **WITH A9616-03**: 500 mW/cm² (at 365 nm)
- **WITH A9616-05**: 500 mW/cm² (at 365 nm)

### TEMPERATURE CHARACTERISTICS

![Temperature comparison graph]

NOTE: The data shown above is typical values measured by Hamamatsu, just for your reference. Actual performance may greatly depend on the object to be illuminated and distance to it, and may differ from the above data.
UV POWER METER

C6080
This optical power meter is specifically designed to measure the intensity of ultraviolet light emitted from the spot light source. The C6080 is a high-precision power meter. Calibrating it once a year is recommended.

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Sensitive Area (mm)</th>
<th>Calibrated Wavelength (nm)</th>
<th>Optical Power Measurement Range (mW/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C6080-02</td>
<td>φ6</td>
<td>248</td>
<td>0 to 1999</td>
</tr>
<tr>
<td>C6080-03</td>
<td>φ1</td>
<td>365</td>
<td></td>
</tr>
<tr>
<td>C6080-04</td>
<td>φ1</td>
<td>436</td>
<td></td>
</tr>
<tr>
<td>C6080-13</td>
<td>φ1</td>
<td>365</td>
<td>0 to 19990</td>
</tr>
</tbody>
</table>

C9386 [LIGHT CHECKER]
The C9386 is ideal for making daily checks of irradiation intensity and its pocket-size makes it great for field work. The small sensor head is convenient for measuring narrow and hard to access locations.

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Sensitive Area (mm)</th>
<th>Calibrated Wavelength (nm)</th>
<th>Optical Power Measurement Range (mW/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C9386</td>
<td>φ0.8</td>
<td>365</td>
<td>0 to 3999</td>
</tr>
</tbody>
</table>

* The calibration for C9386 should be done by C6080-03 or C6080-13 at customer side.

FOOT SWITCH

E8263 SERIES
Pushing on the E8263 foot switch opens and closes the shutter. These are highly effective when a worker is using 1 or more spot light sources. Different product series are available according to the cable length, connection method and operating method you need.

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Cable Length</th>
<th>Connection</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>E8263-12</td>
<td>2 m</td>
<td>Terminal block</td>
<td>Manual shutter or auto shutter selectable</td>
</tr>
<tr>
<td>E8263-15</td>
<td>5 m</td>
<td>Terminal block</td>
<td>Manual shutter or auto shutter selectable</td>
</tr>
<tr>
<td>E8263-22</td>
<td>2 m</td>
<td>D-SUB connector</td>
<td>Manual shutter</td>
</tr>
<tr>
<td>E8263-25</td>
<td>5 m</td>
<td>D-SUB connector</td>
<td>Auto shutter</td>
</tr>
<tr>
<td>E8263-32</td>
<td>2 m</td>
<td>D-SUB connector</td>
<td>Auto shutter</td>
</tr>
<tr>
<td>E8263-35</td>
<td>5 m</td>
<td>D-SUB connector</td>
<td>Auto shutter</td>
</tr>
</tbody>
</table>

LIGHT GUIDE CAP

A9739 SERIES
The A9739 is a light guide cap for protecting the exit end of a light guide from gas evaporating from adhesive and from dust and scratches. The light-transmitting window fitted to the cap is easily exchangeable with a spare window (supplied) so there is no maintenance or cleaning down-time. Protecting the light guide end with an A9739 light guide cap eliminates shipping and repair costs required for re-polishing. Two types of light guide caps and replaceable windows are available according to the light guide bundle diameter.

PROTECTIVE CAP (supplied with one replacement window)
- A9739-06: Light guide bundle diameter 3.5 mm
- A9739-07: Light guide bundle diameter 5 mm

REPLACEMENT WINDOW (material: quartz)
- A9740: For light guide bundle diameters 3.5 mm and 5 mm

PROTECTIVE GLASSES

A6905
Spot light sources emit invisible intense UV radiation which is harmful to the human eyes. Protective glasses or goggles must be worn during work.
UV-LED MODULE LIGHTNINGCURE® LC-L2

This light source is a compact UV-LED module containing an ultraviolet LED element (365 nm or 385 nm). Designed for low power consumption, it is easy on the environment and allows UV irradiation with less thermal effect. Its fanless design ensures reliable use even in clean rooms. The same functions as those of the conventional UV irradiators are included, such as output intensity adjustment and irradiation time setting, etc. Various types of condenser lenses are available as options that allow to obtain irradiation patterns according to the application.

UV-LED UNIT LIGHTNINGCURE® LC-L3

The LC-L3 is a light source unit containing nine UV-LEDs arranged in a 3 x 3 matrix giving a whole new level in performance with LED characteristics maximized for both "long life" and "high output" which have been conflicting goals. The custom optical system ensures highly uniform irradiation coverage. Internal LED wavelength is selectable from 365 nm or 385 nm.

UV-LED UNIT LIGHTNINGCURE® LC-L5

The LC-L5 is an innovative linear irradiation type UV-LED unit. It allows to set up new production processes that were impossible up to now with conventional LED light source. The LC-L5 can already be found in the recent UV printing equipment and other production facilities. The product line-up includes a variety of types that allow to select an irradiation width and wavelength (365 nm or 385 nm) to match the workpiece.

UV BONDING EQUIPMENT

We design and configure simple UV curing or bonding equipment combined with dispensers and other devices. We also welcome your queries regarding adhesive, bonding agents and syringes. Feel free to contact our sales office.

[CONSULT US ABOUT UV CURING OR ANY RELATED ITEM]

We are available to help answer your various questions or concerns about UV curing or bonding. We can provide the ideal combination of UV adhesive to meet your particular needs for bonding strength or job speed, etc.