Dimensions
(Unit: mm) Excluding the protruding sections

ANUP50 controller

Light guide fiber units

Light outlet end shape

Without lens

Fiber bundle diameter:
5 mm Ø0.197 in

Fiber bundle diameter:
3.5 mm Ø0.138 in

Fiber bundle diameter:
8 mm Ø0.315 in

Product No. List

Lamp Spot Type

<table>
<thead>
<tr>
<th>Controller</th>
<th>UV Lamp</th>
<th>UV Control</th>
<th>Accessory created to Light branch</th>
<th>Branch No.</th>
<th>Product No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANUP50 controller</td>
<td>200 W Mercury xenon lamp</td>
<td>UV auto control, Electronically-controlled starter</td>
<td>1 to 4 branches</td>
<td>80 to 265 V AC</td>
<td>ANUP50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light guide fiber units</th>
<th>Accessory created to Light branch</th>
<th>Branch No.</th>
<th>Product No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø3.5 mm Ø0.138 in</td>
<td>Lens</td>
<td>1 branch</td>
<td>ANUP50S1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 branches</td>
<td>ANUP50S2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 branches</td>
<td>ANUP50S3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 branches</td>
<td>ANUP50S4</td>
</tr>
<tr>
<td>Ø5 mm Ø0.197 in</td>
<td>Lens</td>
<td>1 branch</td>
<td>ANUP50S1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 branches</td>
<td>ANUP50S2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 branches</td>
<td>ANUP50S3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 branches</td>
<td>ANUP50S4</td>
</tr>
<tr>
<td>Ø7 mm Ø0.276 in</td>
<td>Lens</td>
<td>1 branch</td>
<td>ANUP50S1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 branches</td>
<td>ANUP50S2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 branches</td>
<td>ANUP50S3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 branches</td>
<td>ANUP50S4</td>
</tr>
<tr>
<td>Ø8 mm Ø0.315 in</td>
<td>Lens</td>
<td>1 branch</td>
<td>ANUP50S1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 branches</td>
<td>ANUP50S2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 branches</td>
<td>ANUP50S3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 branches</td>
<td>ANUP50S4</td>
</tr>
</tbody>
</table>

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  panasonic-electric-works.net/sunx

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Aicure UP50 is off, and a high-accuracy setting and in-line condition optimization. The UV intensity can be checked and adjusted in real time, enhancing the bonding and fixing reliability.

High-efficiency UV irradiation

Eco mode reduces power consumption.

The Eco mode cuts the stability power consumption by a maximum of 15% while the irradiation is off (the shutter is closed), contributing to the running costs (electricity charges). Compatibles with a wide range of power supply voltages from 100 to 240 V AC for worldwide use.

Surface tackiness can be quickly eliminated.

The development and adoption of our unique special mirror that allows for the irradiation unit to be horizontally or vertically placed, 70% or higher in horizontal placement and 80% or higher in vertical placement, 70% or higher in horizontal placement, significantly higher reliability for bonding and fixing.

ANUP5001F heat ray cut filter prevents temperature rises in the irradiation unit.

The use of the filter is recommended especially for heat-sensitive workpieces. You can reduce temperature rises in the irradiation unit by attaching a heat reflecting film depending on the type of workpiece.

Stable UV irradiation performance

UV auto control function automatically compensates for the UV intensity increase or decrease, maintaining stable UV irradiation until the end of the lamp life.

Significantly higher reliability for bonding and fixing

Slim UV sensor (optional)

The UV sensor for measuring irradiation intensity enables auto-turning in high-accuracy.

The UV intensity can be accurately measured at the actual position by using the slim UV sensor. It can also automatically adjust the UV intensity to the preset level. Once the sensor only has 5 mm (0.2 in) thickness, which is similar to the workpiece, the intensity measurement is possible without removing the system from the production line, facilitating high-accuracy setting and in-line condition optimization. The UV intensity can be checked and adjusted in real time, enhancing the bonding and fixing reliability.

* UV intensity can be measured as a relative value.
Stable UV irradiation performance

Programmable irradiation function
This function prevents curing distortion and enables high-quality precision bonding.

The irradiation can be programmed to control the irradiation power and time depending on the resin and curing application, supporting high-quality and high-precision bonding with minimum cure shrinkage. In addition to the simple irradiation mode which irradiation is continuously performed at a constant intensity, up to 10 steps 10 patterns can be set. This includes the step-up mode which the intensity is changed over time and the interval mode which irradiation is performed at specified intervals.

Digital setting allows for consistency of set values from operator to operator.

The irradiation power can be finely set in the range of 0 to 100% in increments of 0.5%. The actual UV irradiation intensity is approximately proportional to the displayed value, making the setting work easier and more accurate.

Interchangeability with ANUP5204
The wavelength distribution (typical characteristics) of UP50 is identical to ANUP5204, our existing model. The replacement lamp, the ANUP5204, is also the same as that for the ANUP5204.

Specifications

<table>
<thead>
<tr>
<th>Setting</th>
<th>Digital setting using membrane switches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp</td>
<td>260 W mercury arc lamp, glass quartz-arc type</td>
</tr>
<tr>
<td>UV irradiation</td>
<td>UV intensity adjustment by digital setting (6 steps in 0 to 100%, in increments of 0.5%)</td>
</tr>
<tr>
<td></td>
<td>Programmable irradiation (10 steps in each of 10 patterns)</td>
</tr>
<tr>
<td></td>
<td>External signal control: Turning the lamp on/off, stopping and starting the lamp, switching between programmed pattern irradiation, starting timer-controlled irradiation, stopping irradiation</td>
</tr>
<tr>
<td></td>
<td>Electronically-controlled shutter using manual or timer-controlled operation</td>
</tr>
<tr>
<td>External signal</td>
<td>On/Off/stoping, the shutter, opening/closing, irradiating the lamp</td>
</tr>
<tr>
<td></td>
<td>Light and: on/off, starting the shutter, stopping the shutter</td>
</tr>
<tr>
<td></td>
<td>Time channels: 10 steps in each of 10 patterns</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Width: 230 × 230 × 200 mm (excluding protruding sections)</td>
</tr>
<tr>
<td>Weight</td>
<td>8 kg approx.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>604 × 841.9 mm (excluding protruding sections)</td>
</tr>
<tr>
<td>Power supply</td>
<td>95 to 264 V AC 50/60 Hz 260 V A</td>
</tr>
<tr>
<td>Lamp Pack No.</td>
<td>ANUP5204</td>
</tr>
<tr>
<td>Lamp Field No.</td>
<td>ANUP5204</td>
</tr>
</tbody>
</table>

Easy to install

Can be placed either vertically or horizontally.

The unit can be placed in either a vertical position that makes the footprint smaller or a horizontal position that allows stacking other units.

Long life, quickly-attachable lamp
The average lamp life is 3,000 hours (guaranteed life: 2,000 hours*). The lamp can be easily replaced with a single operation and does not require an optical axis adjustment.

* Ratio to the initial UV intensity -- 60% or higher in vertical position, 70% or higher in horizontal position

Two lens unit models for short and long range converging
The two lens unit models, one for short range and the other for long range converging, cover a variety of applications and work pieces.

ANUP5001F heat ray cut filter prevents production line, facilitating significantly higher reliability for bonding and fixing depending on the type of workpiece. You can reduce temperature rises in the irradiation unit by attaching a heat reflecting filter depending on the type of workpiece. The use of the filter is recommended especially for heat-sensitive workpieces.

ANUP3052 + ANUP50001BS

Typical characteristics

Relative spectral radiant intensity

400 W/cm²

Intensity: 30 mm 1.181 in

Workpiece: Al (30 × t0.5 mm 1.181 × t0.020 in)

Power consumption when the UV auto control is on

Lamp lighting time (H)

Irradiation time (sec)

When the irradiation is on

When the irradiation is off (the shutter is closed)

10% Cut by

15% max.

Cut by

This function increases the electrical power applied to the lamp according to the total irradiation time of the lamp to compensate for the UV intensity decrease, maintaining stable UV irradiation until the end of the lamp life.

UV intensity can be measured as a relative value.

High-efficiency UV irradiation

Stable UV irradiation performance

Programmable irradiation function

Digital setting allows for consistency of set values from operator to operator.

The irradiation can be programmed to control the irradiation power and time depending on the resin and curing application, supporting high-quality and high-precision bonding with minimum cure shrinkage. In addition to the simple irradiation mode which irradiation is continuously performed at a constant intensity, up to 10 steps 10 patterns can be set. This includes the step-up mode which the intensity is changed over time and the interval mode which irradiation is performed at specified intervals.

Digital setting allows for consistency of set values from operator to operator.

The irradiation power can be finely set in the range of 0 to 100% in increments of 0.5%. The actual UV irradiation intensity is approximately proportional to the displayed value, making the setting work easier and more accurate.

Interchangeability with ANUP5204
The wavelength distribution (typical characteristics) of UP50 is identical to ANUP5204, our existing model. The replacement lamp, the ANUP5204, is also the same as that for the ANUP5204.
Featuring an energy-efficient mode, which cuts the power consumption by a maximum of 15% while the irradiation is off, and a high-accuracy auto-tuning function.

High-efficiency UV irradiation

- Eco mode reduces power consumption. The Eco mode cuts the power consumption by 15% while the irradiation is off (the shutter is closed), significantly reducing energy consumption.
- High-efficiency UV irradiation: Voltages from 100 to 240 V AC (charge). Compatible with an energy-efficient inverter system.
- Surface tackiness can be quickly eliminated.
- Easy to install: UV intensity can be measured as a relative value.* UV intensity ratio: 70% irradiation diameter intensity at central intensity.

Stable UV irradiation performance

- Programmable irradiation function: This function prevents curing distortion and enables high-precision bonding.
- The irradiation power can be finely set in the range of ±10% in increments of ±1%. The UV intensity is irradiation intensity as a ratio to the lamp intensity at the preset level. Since the UV intensity is irradiation intensity as a ratio to the lamp intensity, it is similar to the preset level. Since the UV intensity is irradiation intensity as a ratio to the lamp intensity, it is similar to the preset level.
- Digital setting allows for consistency of set values from operator to operator.
- Interchangeability with ANUPS204: The ANUPS204 lamp unit is available for ANUP5001F, making the lamp easy to install and move around.

Options

- Light guide fiber units: Available for worldwide use. Please refer to page 5 for the UV intensity distribution data.

Available for worldwide use

- We have local sales companies to support the expansion of Sunlight global operations. Please visit our website to see our worldwide sales networks.

Intensity Profiles (Typical example)

- The wavelength distribution (typical characteristics) of UP50 is identical to the characteristics of Aicure products, ensuring stable UV irradiation performance.

Specifications

- Interchangeability with ANUPS204: The ANUPS204 lamp unit is available for ANUP5001F, making the lamp easy to install and move around.

ANUP101F heat ray cut filter prevents temperature rises in the irradiation unit.

- The use of the filter prevents temperature rises in the irradiation unit. When using the filter, the temperature rise is lower than 10°C with a lamp lead wire length of 10 m. Periodic cleaning of the filter is required. (No. of filters: 5.5 × 10⁻⁴ m²/s).}

ANUP101F heat ray cut filter prevents temperature rises in the irradiation unit.

- The use of the filter prevents temperature rises in the irradiation unit. When using the filter, the temperature rise is lower than 10°C with a lamp lead wire length of 10 m. Periodic cleaning of the filter is required. (No. of filters: 5.5 × 10⁻⁴ m²/s).
## Dimensions

(Unit: mm (in) Excluding the protruding sections)

**ANUP50**

**ANUP50 controller**

<table>
<thead>
<tr>
<th>Fiber bundle diameter: Ø 3.5 mm 0.138 in</th>
<th>Fiber bundle diameter: Ø 5 mm 0.197 in</th>
<th>Fiber bundle diameter: Ø 8 mm 0.315 in</th>
</tr>
</thead>
</table>

- **Light outlet end shape**
  - Without lens
  - For AS and BS lens with lens

**Fiber bundle diameter:**
- Ø3.5 mm Ø0.138 in
- Ø5 mm Ø0.197 in
- Ø8 mm Ø0.315 in

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### Product No. List

#### Lamp Spot Type

<table>
<thead>
<tr>
<th>Controller</th>
<th>UV lamp</th>
<th>UV irradiation</th>
<th>Accessory number of fiber branches</th>
<th>Power supply</th>
<th>Product No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANUP50 controller</td>
<td>200 W Mercury xeon lamp</td>
<td>UV auto control, Electronically-controlled shutter</td>
<td>1 to 4 branches</td>
<td>90 to 264 V AC, 50/60 Hz</td>
<td>ANUP50</td>
</tr>
</tbody>
</table>

**Light guide fiber units**

<table>
<thead>
<tr>
<th>Light guide fiber units</th>
<th>1 branch</th>
<th>2 branches</th>
<th>3 branches</th>
<th>4 branches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø3.5 mm ø0.138 in</td>
<td>ANUP50/31</td>
<td>ANUP50/32</td>
<td>ANUP50/33</td>
<td>ANUP50/34</td>
</tr>
<tr>
<td>Ø5 mm ø0.197 in</td>
<td>ANUP50/51</td>
<td>ANUP50/52</td>
<td>ANUP50/53</td>
<td>ANUP50/54</td>
</tr>
<tr>
<td>Ø8 mm ø0.315 in</td>
<td>ANUP50/81</td>
<td>ANUP50/82</td>
<td>ANUP50/83</td>
<td>ANUP50/84</td>
</tr>
</tbody>
</table>

**Accessories**

- Lamp
- Short range converging lens
- Long range converging lens
- Heat resistant filter
- Reflection type
- Suggers
- UV protective goggle

**Product No.**

- ANUP50/31
- ANUP50/32
- ANUP50/33
- ANUP50/34
- ANUP50/51
- ANUP50/52
- ANUP50/53
- ANUP50/54
- ANUP50/81
- ANUP50/82
- ANUP50/83
- ANUP50/84

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*Please consult us separately for the lens for the Ø8 mm Ø0.315 in fiber unit.*

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Featuring an energy-efficient mode, which cuts the power consumption by a maximum of 15% while the irradiation is off, and a high-accuracy auto-tuning function.