**Specifications**

**ANUP5204**

**Power Source**
- 90-264VAC 50/60Hz 280VA

**Lamp**
- Programmable UV lamp with the following characteristics:
  - 4000mW/cm² (initial)
  - At least 70% of initial UV intensity for 2,000 hours
  - Maximum time of use is 3,000 hours

**UV Intensity**
- adjustable from 10% to 100% of initial intensity

**UV Intensity**
- programmable with 10 steps in 9 patterns

**Output Position**
- UV-Auto Control and Programmable UV Irradiation
  - Output position: Programmable pattern illumination (10 steps in 9 patterns)
  - Programmable pattern illumination (10 steps in 9 patterns)

**Light Guide Fiber Dimensions**
- Shape of outgoing end
  - Fiber bundle diameter:
    - ø3.5mm, ø5mm, ø8mm

**Applications**
- Optical pick-up assembly for DVDs and CDs
- Adhesive lens and prisms for digital cameras and DVRs
- Sealing LCD potting point
- Protection between LCD and film substrate
- Adhesive ferrule of optical fiber

**Safety Precautions**
- In order to use this product properly, be sure to read the installation instructions and Manual before use.

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**New**

**UV-Curing System**

UV calibration and irradiation pattern functions deliver high-quality adhesion and curing.

- High power: 4000 mW/cm²
- Automatic compensation for decay in UV intensity
- Superb UV irradiation prevents distortion
- Universal power supply and 40% more energy efficient
- Digital settings eliminate individual variation
- Can be placed vertically or horizontally
What is UV (ultraviolet) curing?

The UV curing system consists of UV curing resin and an ultraviolet curing device. UV irradiation causes an optical polymerization reaction on paint, pigments and adhesives which makes it possible to cure resins instantaneously.

Highly effective UV curing

1. High UV intensity: 4000mW/cm²

Even with a 200 W lamp, ANUP5204 achieves a high intensity of 4000 mW/cm² for multiple-branch-fiber and long distance irradiation. (4000 mW/cm² is the initial power using 1 branch-fiber (ø8 mm) without lens, without filter, and with Auto-control set to OFF and distance set to 100 mm.)

2. Surface tacking removed for quicker curing

Quick, clean tacking by short wavelengths using a special mirror developed for efficient irradiation. As result, ANUP5204 achieves short irradiation time (short tact time) and reduced heat increase.

3. Universal power supply and 40% more energy efficient

Features universal power source compatibility between 100 and 240 VAC. It is a whopping 40%+ more energy efficient than our conventional model 1) This will cut electricity bills.

Stable UV curing

1. Automatic compensation for decay of UV intensity

The built-in UV auto-control function automatically compensates for UV intensity decay, so stable UV intensity is maintained until the end of the lamp’s life. Set vertically, the ANUP5204 undergoes almost no decrease in UV intensity.

2. Superb UV irradiation prevents distortion

The programmable irradiation function is matched to the resin and curing material. This greatly reduces shrinking and distortion of the resin when curing. This function is the best match for optical components. Set 9 patterns of 10 steps each. UV power (shutter open rate) = 0-100% (0.5% unit), irradiation time = 0.1-100Sec. (1 sec. unit:100-9999 sec. (1 sec. unit).

3. Universal power supply and 40% more energy efficient

Features universal power source compatibility between 100 and 240 VAC. It is a whopping 40%+ more energy efficient than our conventional model 1) This will cut electricity bills at your factory.

1) ANUP5252L used for comparison as conventional model

Control UV irradiation power using PLC

1. Easy connection

Very easy to connect with a foot-switch for UV irradiation.

2. Change UV intensity using PLC

Using pattern No. 9, change the UV intensity from 4-power via a PLC for optimum irradiation in each production run.

3. Supports UV optical feedback

Freely change the UV irradiation intensity from external devices. Combine UV sensors and PLC to support UV control by optical feedback.

Easy setting

1. Digital settings eliminate individual variation

Use sheet switches to set and display each value. Fine tune values from 0 to 100% in 0.5% increments. Nearly perfect symmetry between display and UV irradiation intensity facilitates setup.

2. Can be stood up or laid on side

Vertical placement: stand on side to allow stacking. Vertical placement can reduce decreases in UV intensity.

3. Long-life lamp featuring one-touch replacement

Even with a 200 W lamp, the lamp will provide a high 4000 mW/cm² output. On top of that, it delivers a long 3000 hours of life 2) (guaranteed lifetime: 2000 hours) 3) The “one touch” replacement method does not require optical axis alignment:

1) Initial data.
2) 1,000 hours is maximum time of use.
3) Minimum 70% of initial UV intensity.

4. Diverse range of filters and lenses for practically any application

Two types of heat-cut-filters are available. Only UV rays penetrate. Four lenses are also available to match the application at hand: the “AS/A” lens focuses short range, the UV lens is used for irradiation, and the “BS/B” lens focuses long range.

Technical data

UV irradiation data (Auto-control = OFF: typical characteristics)

UV intensity (mW/cm²)

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<th>With B lens</th>
<th>With All lens</th>
<th>With BI lens</th>
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UV intensity ratio according to number of fiber unit branches

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2) (guaranteed lifetime: 2000 hours)
3) The “one touch” replacement method does not require optical axis alignment.

1) Initial data.
2) 1,000 hours is maximum time of use.
3) Minimum 70% of initial UV intensity.

UV Curing System: ANUP5204 uses advanced functions: UV auto control and programmable UV irradiation. ANUP5204 now also features a universal power supply (100 to 240 VAC) and reduced power consumption.
Highly effective UV curing

1. High UV intensity: 4000mW/cm²
   - Even with a 200 W lamp, the ANUP5204 achieves a high intensity of 4000 mW/cm² for multiple-branch-fiber and long distance irradiation. (4000 mW/cm² is the initial power using 1 branch-fiber (6 mm) without lens, without filter, and with Auto-control set to OFF and distance set to 10mm.)

2. Surface tacking removed for quicker curing
   - Quick, clean tacking by short wavelengths using a special mirror developed for efficient irradiation. As a result, ANUP5204 achieves short irradiation time (short tact time) and reduced heat increase.

3. Universal power supply and 40% more energy efficient
   - Features universal power source compatibility between 100 and 240 VAC. It is a whopping 40% more energy efficient than our conventional model.  

Stable UV curing

1. Automatic compensation for decay of UV intensity
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3. Universal optical feedback
   - ANUP5204 output circuit
   - Easy setting
   - Digital settings eliminate individual variation
     - Use sheet switches to set and display each value. Fine tune values from 0 to 100 in 0.5% increments. Nearly perfect symmetry between display and UV irradiation intensity facilitates setup.

Control UV irradiation power using PLC

1. Easy connection
   - Very easy to connect with a foot-switch for UV irradiation.

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3. Supports UV optical feedback
   - Freely change the UV irradiation intensity from external devices. Combine UV sensors and PLC to support UV control by optical feedback.
Specifications

Aicure UV Curing System ANUP5204

- **Power Source**: 90-264VAC 50/60Hz 280VA
- **Lamp**: ANUP5204
  - Programmable UV Irradiation and UV Auto Control
  - Built-in UV auto control
  - Programmable pattern illumination (10 steps in 9 patterns)
  - Control UV intensity via external signals (switch between 4 different intensities)
  - Modify UV intensity by setting aperture opening

**Light Guide Fiber Unit**

- **Shape**: Normal type, Short-range lens, Long-range lens
- **ANUP5031**: Normal type, Short-range lens
- **ANUP5032**: Normal type, Short-range lens
- **ANUP5033**: Normal type, Long-range lens
- **ANUP5034**: Normal type, Long-range lens
- **ANUP5051**: Normal type, Short-range lens, with lens (for use with ANUP5052 fiber)
- **ANUP5052**: Normal type, Short-range lens, with lens (for use with ANUP5053 fiber)
- **ANUP5053**: Normal type, Short-range lens, with lens (for use with ANUP5054 fiber)
- **ANUP5054**: Normal type, Short-range lens, with lens (for use with ANUP5055 fiber)

**Other fibers**

- **ANUP5001A**: Normal type, Short-range lens, with lens (for use with ANUP5001B fiber)
- **ANUP5001B**: Normal type, Short-range lens, with lens (for use with ANUP5001C fiber)
- **ANUP5001C**: Normal type, Short-range lens, with lens (for use with ANUP5001D fiber)
- **ANUP5001D**: Normal type, Short-range lens, with lens (for use with ANUP5001E fiber)
- **ANUP5001E**: Normal type, Short-range lens, with lens (for use with ANUP5001F fiber)
- **ANUP5001F**: Normal type, Short-range lens, with lens (for use with ANUP5001G fiber)

**Applications**

- Optical pick-up assembly for DVDs and CDs
- Adhesive lens and prisms for digital cameras and DVRs
- Sealing LCD potting point
- Protection between LCD and film substrate
- Adhesive ferrule of optical-fiber

**Safety Precautions**

- In order to use this product properly, be sure to read the Installation Instructions and Manual before use.

**Aicure is available worldwide.**

Customers globalizing their operations will appreciate our high-level of on-site part replacement/maintenance and support. On-site support is available in Japanese and the local language. Catalogs are also available in Chinese (traditional and simplified script), English, and Korean. Please contact a Matsushita Electric Works representative for details about local catalogs.

**UV calibration and irradiation pattern functions deliver high-quality adhesion and curing.**

**Smart Solutions by NAIS**

http://www.naismv.com