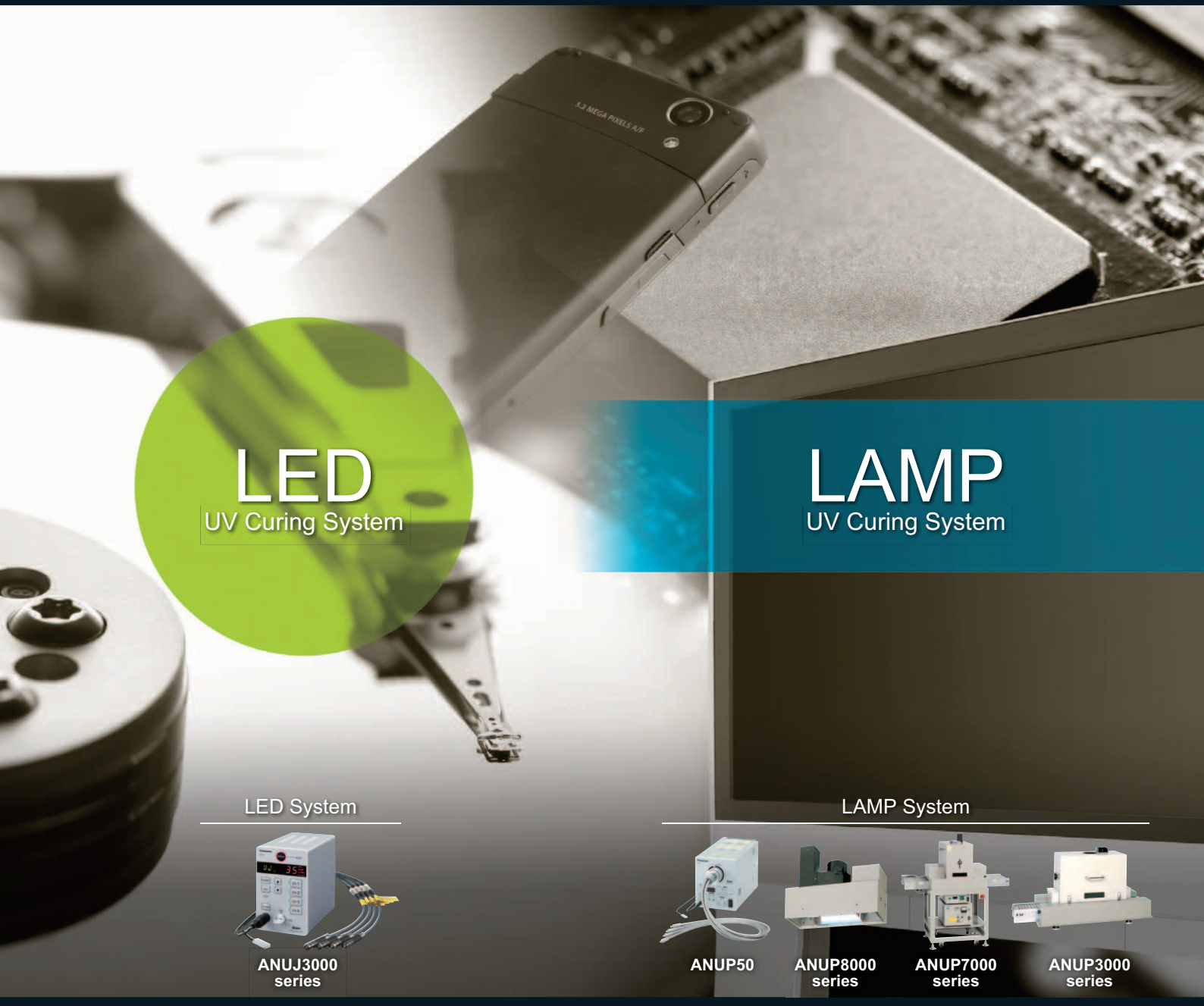
Panasonic
ideas for life

LED Type/Lamp Type
UV CURING SYSTEM
Aicure SERIES

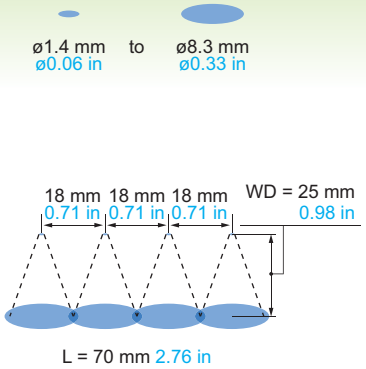
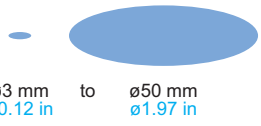
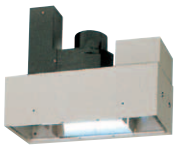
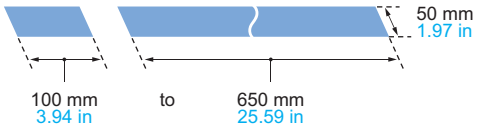
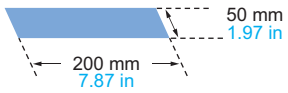


Energy-efficient and High-accuracy UV System
Wide selection for the best choice for the application, such as bonding, printing, and coating

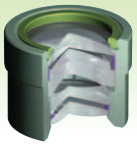
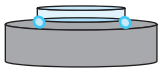
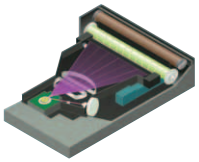
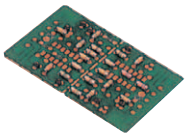
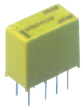
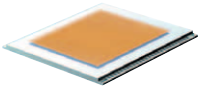
2012.07 | panasonic.net/id/pidsx/global

The energy-efficient and high-precision UV irradiation systems come in the LED and lamp types to meet diverse requirements for a variety of workpieces.

Lineup

			Typical model No.	UV intensity	Irradiation area (Rough guide)
LED type	Spot type	Energy-efficient High-accuracy  **UJ35**	**ANUJ3000 series**	with 10,000 mW/cm²	
Lamp type	Spot type	Energy-efficient High-accuracy  **UP50**	**ANUP50**	with 4,000 mW/cm²	
	Tube type		**ANUP8000 series**	1.5 kW* 3 kW* 6 kW*	
			**ANUP7000 series**	3 kW* 6 kW*	
			**ANUP3000 series**	1.5 kW*	

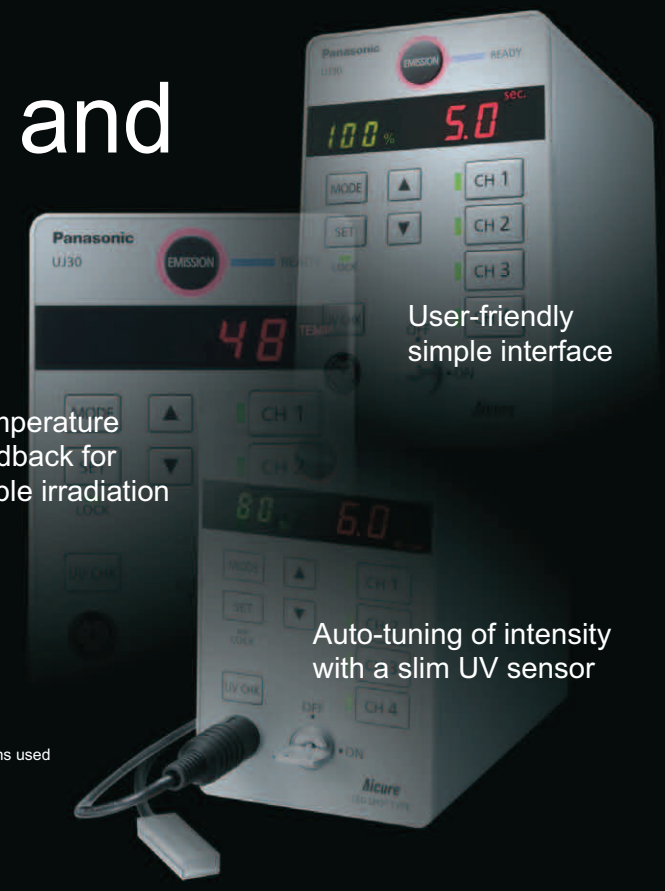
* For the tube type, the lamp output is indicated.

Applications	Advantages	Disadvantages
 Bonding the camera lens to optical tubes Curing resin in deeper sections or through a lens/filter	■ Low thermal stress ■ Capable of irradiation ON/OFF control ■ Low power consumption ■ Stable UV irradiation ■ Long estimated light source life (20,000 hours approx.) ■ Cooling fan-less structure ■ Small size ■ Ozone-odor free ■ Exhaust duct not required	■ Small UV irradiation area ■ Resin for short wavelength
 Fixing/bonding precision parts		
 Bonding security camera lenses		
 Assembling optical parts		
 Temporarily bonding chip components		
 Bonding hard disk units/ coil terminals		
 Bonding LDs/optical discs	■ Capable of wide-area UV irradiation ■ Broad UV wavelength range ■ Capable of high-output UV irradiation ■ Compatiable with a variety of UV resins	■ High thermal stress ■ Short lamp life (3,000 hours approx.) ■ Cumbersome lamp replacement work ■ Need exhaust duct
 Sealing relay terminals		
 Sealing LCDs		
 Marking on semiconductors/ electronic components		
 Hard coating on plated, evaporated materials and lenses		
 Coating on decorated materials		

User-friendliness and Stable Irradiation

The compact body is equipped with the Panasonic's original temperature feedback control, which allows UV irradiation with the industry's highest class stability.
In addition to the user-friendliness, energy efficiency, and environment consciousness, these models feature high power irradiation with a UV intensity* of 10,000 mW/cm^2 (wavelength: 365 nm) and 12,800 mW/cm^2 (wavelength: 385 nm) and irradiation accuracy of ±3 % or better.
These models provide outstanding performance for bonding and fixing with UV curable resin.

* Measured by ø1 mm ø0.04 in sensor at an irradiation distance of 10 mm 0.39 in with ANUJ6423 lens used



Controller selection for you applications	Standard model ***UJ30*** Limited to most necessary and sufficient functions provides highly reliable UV irradiation. 	High performance model ***UJ35*** A variety of functions will provide more advanced UV irradiation solution. 
User-friendly	**Easy-to-read display and easy-to-operate panel are as simple to use as a home appliance.**	
Stable irradiation	**The LED head incorporates a temperature sensor. The temperature feedback control provides excellent irradiation stability.** Panasonic's original	
Four-head irradiation	**Different irradiation power and time can be set for each LED head attached to the controller. Both "all" and "individual" UV irradiation modes are available.**	
Compact size	**It's compactness measures 80 mm 3.15 in width, 125 mm 4.92 in height and 140 mm 5.51 in depth. It could fit into any small space.**	
External control	**UV irradiation operation can be externally controlled using the parallel I/O, enabling automatic control suitable for production lines.**	**UV irradiation operation can be externally controlled using the parallel I/O or the RS232C port, enabling automatic control suitable for production lines.**
UV sensor	—	**UV intensity measurement and automatic calibration can be done at the actual production line using the slim UV sensor.** Panasonic's original
Programmable irradiation	—	**The programmable irradiation function helps prevents curing distortion and enable high-quality precision bonding at a lower temperature.**
Multiple setting profiles	—	**Up to 8 different irradiation patterns can be saved.**
UJ35 software	—	**Free downloadable software available from our website for easy PC operation. Software will allow you to operate the unit from a PC. Also allows you to save irradiation programs. Japanese, English, Chinese and Korean languages available.** Free software
Global 3-year warranty	**Guaranteed for three years from date of purchase (controller only). For details, please visit our website. http://www3.panasonic.biz/ac/e/fasys/warranty/index.jsp** Panasonic's original	

Quick setup immediately after installation

User Friendly Interface

Simple interface

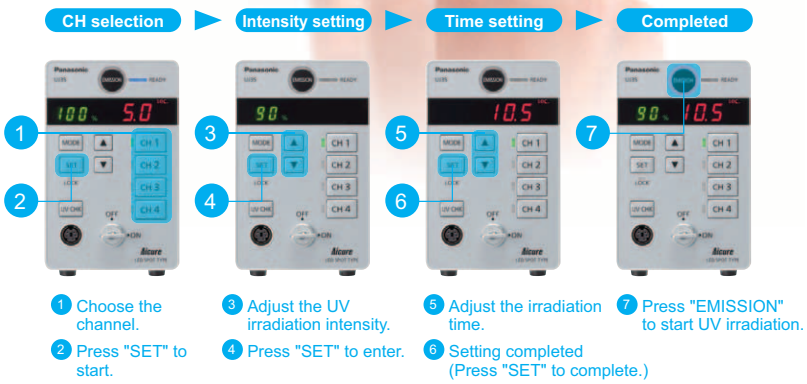
Easy-to-read display and easy-to-operate panel

UJ30/UJ35 can be easily set up like setting up a home appliance.
Only three switches required for basic settings.

1 Choose LED head (CH1 to CH4).

2 Set UV irradiation intensity (%).

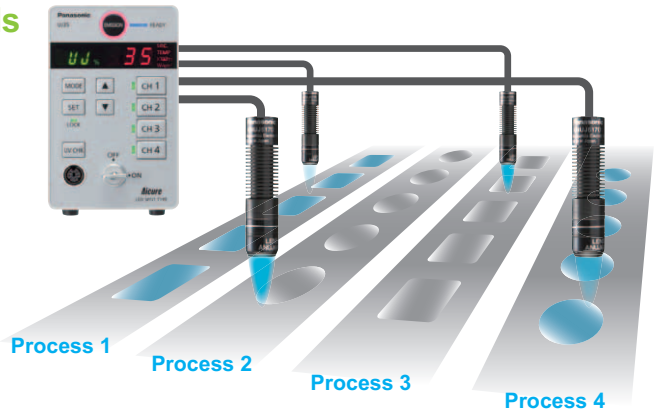
3 Set irradiation time.



Four individually controllable LED heads

The irradiation power and time can be individually controlled.

The irradiation power, time, and timing of the LED heads can be individually controlled. With the lamp type model, one process requires one irradiation unit. With UJ30/UJ35, one unit can be used for up to four processes due to its four individually-controllable LED heads. It will also show a notice if any of the LED head reaches time to replace or when there is a temperature warning on one of the heads.

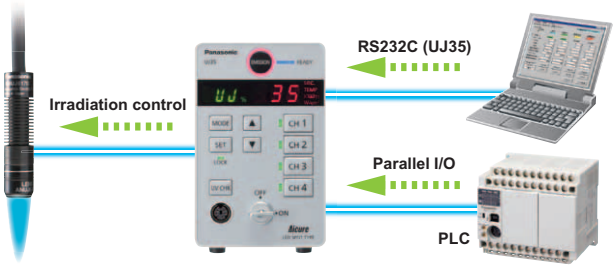


External control

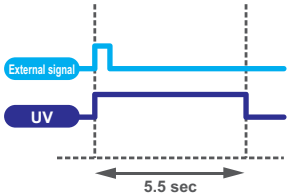
UV irradiation can be controlled by external signal inputs, enabling automatic control in production lines.

UV irradiation (time and irradiation timing) of the LED heads can be controlled by parallel signals from a programmable controller or other external devices.
A variety of control is possible. For example, UV irradiation time can be set up in increments of 0.1 seconds by the controller for each LED head. And an external signals can be used to indivisually start or stop the UV irradiation of the LED heads. With UJ35, irradiation control using RS232C is available.
“UJ35 software (free)*,” the setup process can be easily set up using a PC.

*Downloadable from our website.

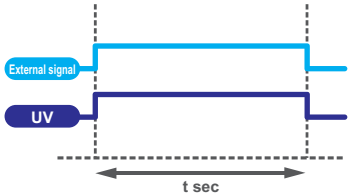


[UV irradiation for preset time]



UV irradiation starts when an external signal pulse is applied to external input.
UV irradiation will stop after the preset time (5.5 sec) has elapsed.

[UV irradiation while external signal is on]



UV irradiation continues while the external signal is turned on (t sec)
UV irradiation will stop when the external signal is turned off.

Strict quality control

Stable Irradiation

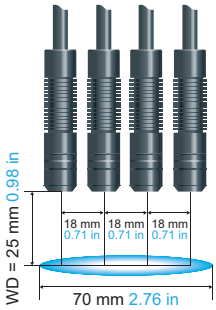
Prevention of resin curing defects and bonding faillures

Panasonic's original

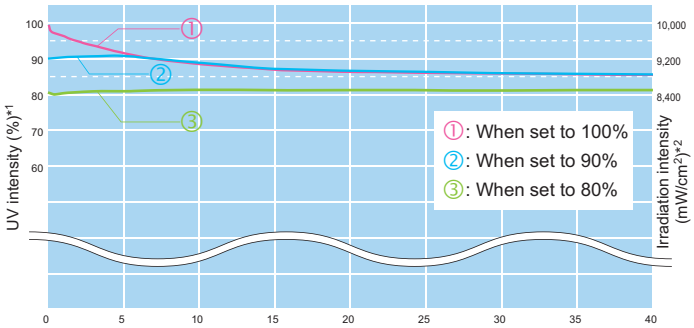
Temperature feedback control

±3% or better UV irradiation accuracy (with the intensity set to 80%)

Generally, when the LED temperature rises, the UV irradiation output decreases. To prevent the temperature to rise, the LED heads are built with metal materials with fins to increase heat dissipation. The LED heads are also equipped with a built-in temperature sensor to feedback the temperature to the controller. The controller will calculate the loss of power due to temperature increase, enabling stable UV irradiation at an accuracy within ±3% when the intensity is set to 80%. This high performance is ideal for high-quality and precision bonding applications.
Even if four heads are used in a line, a reliable and uniform irradiation is possible. When high intensity heads equipped with cylindrical lens (ANUJ6475S) are used with 18 mm 0.71 in pitches as shown in the figure, an area of approx. 70 mm 2.76 in wide can be reliably irradiated at 500 mW/cm^2 or higher intensity.

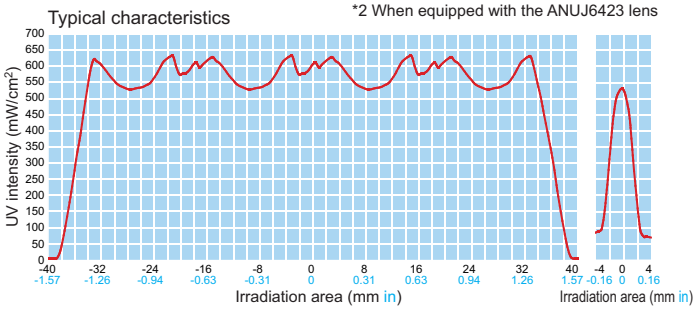


Typical characteristics of the high intensity head when our mounting bracket is used



*1 "100" indicates the 100% intensity setting.
*2 When equipped with the ANUJ6423 lens

Typical characteristics

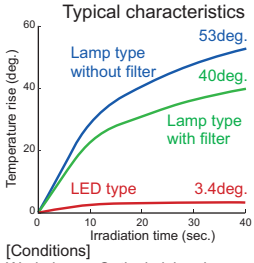


Infrared rays-free UV irradiation

High-accuracy bonding without thermal distortion

The LED heads irradiate 365 nm or 385 nm wavelength UV rays, which do not contain infrared rays (heat) unlike the light from the lamp type system, preventing the temperature rise of workpieces. This is ideal for applications that require high precision bonding with minimum thermal distortion, such as the assembly of thin plastic lenses.

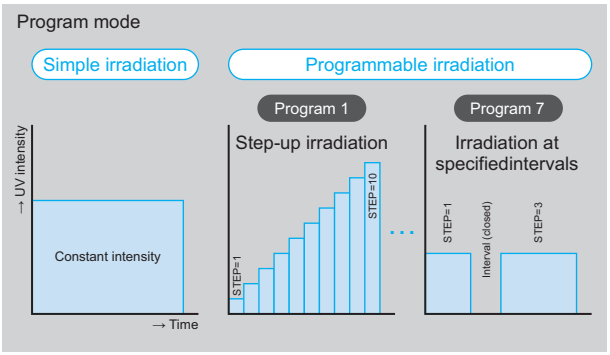
Typical characteristics



[Conditions]
Workpieces: Optical pickup lenses
UV intensity: 250 mW/cm^2
Irradiation distance: 20 mm 0.79 in

Programmable irradiation function (for UJ35)

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



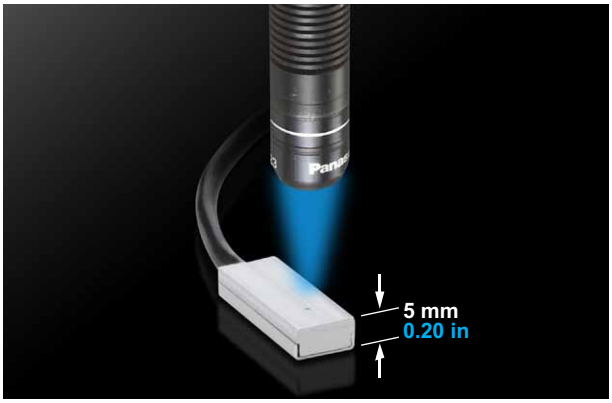
The irradiation can be programmed to controls the irradiation power and time depending on the resin and curing appication, supporting high-quality and high-precision bonding with minimum cure shrinkage. In addition to the simple irradiation mode which irradiation is continuously performed at a constant intensity, up to 10 steps 7 different irradiation patterns (7 product types) can be programmed for each of the four LED head. This includes the step-up mode which the intensity is changed over time and the interval mode which irradiation is performed at specified intervals.

Significantly higher reliability for bonding and fixing

Panasonic's original

Slim UV sensor (for UJ35)

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



The UV irradiation intensity of the LED heads can be relative measured* at the actual position by using the optional slim UV sensor. It can also automatically adjust the UV intensity to the preset level. Since the sensor only has 5 mm 0.20 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 at real time, enhancing the bonding and fixing reliability.

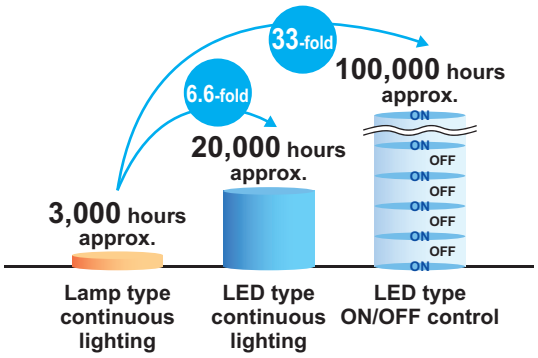
* UV intensity can be measured as a relative value.

Safe and reliable

Environmental Consciousness and Reliable

Frequent part replacement is reduced by LED type.

Long-lasting cost effective LED type



One of the biggest benefits of using the LED type is that the light source life is much longer than lamps used in lamp type. The life of the lamp is 3,000 hours approx., but the LED has 20,000 hours approx. Further more, unlike the lamp type, which needs to be kept turned on through out the operation, the LED type can turn on UV irradiation only when it is needed. When the irradiation ON/OFF time ratio is 1:4 (process cycle time = 5, irradiation time = 1), the LED type operation life is equivalent to 100,000 hours approx. compared to lamp types, leading to significant reductions in running costs and hours for maintenance.

Reduction of CO_2 emissions and running costs

Low power consumption of 60 VA (at 100 V AC)

The power consumption is 60 VA (at 100 V AC) or lower even with all channel heads turned on contributing to CO_2 redcution. Since the heat generation is also lower than lamp type, the power consumed by the air conditioner is also reduced when required to use in a small clean rooms.

Reliable operation anywhere in the world

Covered by the global 3-year warranty

3 Year Warranty

Guaranteed for three years from the date of purchase (controller only), providing reliablility even if the manufacturing line is at remote location.
For details, please visit our website

http://www3.panasonic.biz/ac/e/fasys/warranty/index.jsp

Flexible cable for LED head will enable installation to even moving sections.

Standard Flexible head cables

Flexible cable has been adopted as the standard LED head connection cable considering that the LED heads will be mounted on to a moving section. Unlike silica fiber cables where there is a risk of damaging the cable by moving the cable too much, these flexible cables can be easily handled without risk of damageing. (withstanding 10 million bends to a radius of 33 mm 1.30 in based on our evaluation). The cables can be extended to a maximum of 10 m 32.8 ft using extension cables, which also have the same flexiblility.

(The minimum allowable bend radius for 5 m 16.4 ft or longer cable diameter ø7.6 mm ø0.30 in is R45.6 mm R1.80 in.)

Ideal for high-precision process. Helps reducing costs.

Cooling fan-less structure

Without the need for a cooling fan, it is ideal for vibration-sensitive or dust-sensitive high precision process. Also, this design reduces need for exhaust ventilation ducting and related installation work as well as the running costs for exhaust ventilation and air conditioning.

Lead and Mercury free

Eco product compliant with CE, RoHS, etc.

CE RoHS 10

Unlike lamps LED heads do not contain mercury. UJ30 and UJ35 conform to CE Marking, RoHS Directive, and Management Methods for Controlling Pollution by Electronic Information Products (China RoHS), ensuring environmentally safe use. (Please follow the proper industrial waste disposal procedures.)

Available for worldwide use

We have local sales companies to support the expansion of customers' global operations. Please visit our website to see our worldwide sales network.

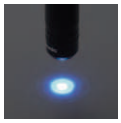
http://panasonic.net/id/pidsx/global

Intensity Profiles (Typical example)

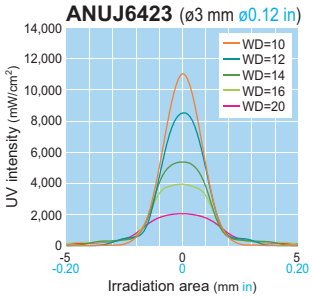
Standard head (ANUJ6172/ANUJ6173)

For intensity profiles data for high intensity head and 385 nm wavelength head, please see the UV intensity profiles. (Downloadable from our website.)

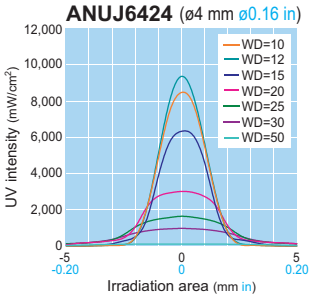
Standard lens



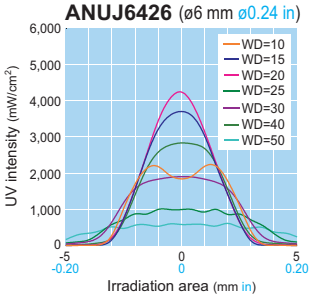
ANUJ6423 (ø3 mm ø0.12 in)



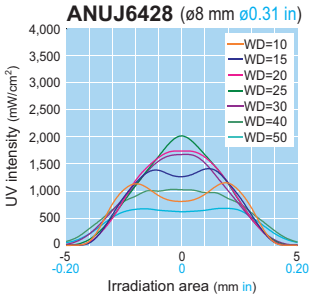
ANUJ6424 (ø4 mm ø0.16 in)



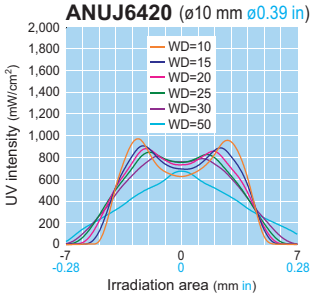
ANUJ6426 (ø6 mm ø0.24 in)



ANUJ6428 (ø8 mm ø0.31 in)

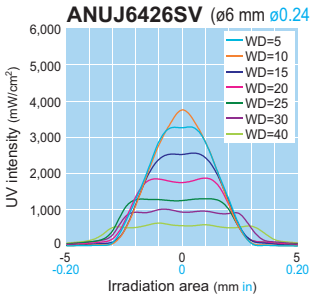


ANUJ6420 (ø10 mm ø0.39 in)

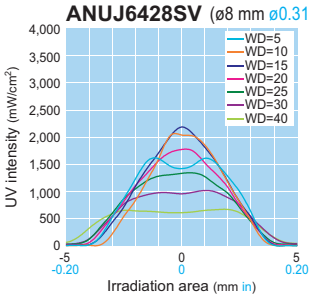


Side view lens

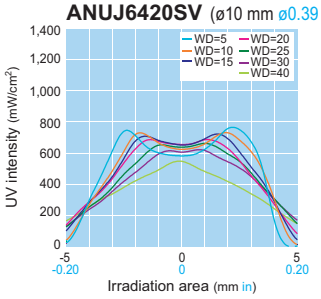
ANUJ6426SV (ø6 mm ø0.24 in)



ANUJ6428SV (ø8 mm ø0.31 in)

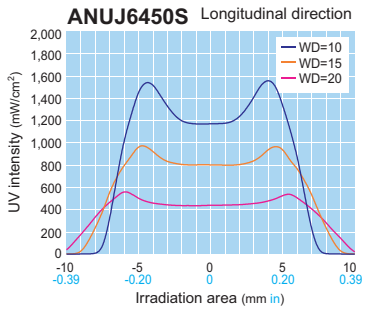


ANUJ6420SV (ø10 mm ø0.39 in)

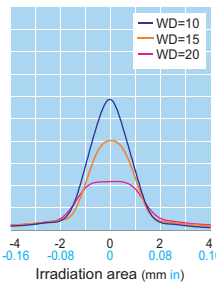


Cylindrical lens

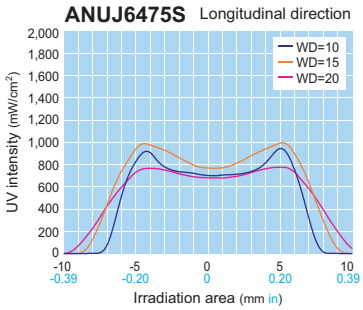
ANUJ6450S Longitudinal direction



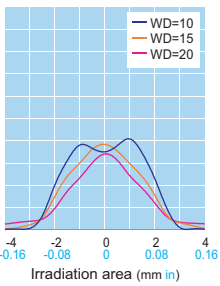
Width direction



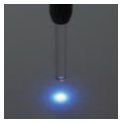
ANUJ6475S Longitudinal direction



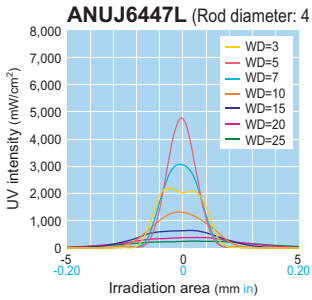
Width direction



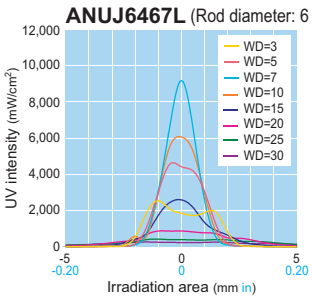
Rod lens



ANUJ6447L (Rod diameter: 4 mm 0.16 in)



ANUJ6467L (Rod diameter: 6 mm 0.24 in)



Wide variation Product Lineup

Controllers

UJ30 controller
ANUJ3000

- Up to four heads can be connected.
- With an AC adapter (ANUJ6802)

UJ35 controller
ANUJ3500

- Up to four heads can be connected.
- With an AC adapter (ANUJ6802)
- Compatible with a UV sensor (ANUJ3800)

UV sensor
ANUJ3800

Slim UV sensor
[with cable (2 m 6.6 ft)]
(Cannot be used for UJ20)

Expansion cable for UV sensor
ANUJ38110 (10 m 32.8 ft)
ANUJ38102 (2 m 6.6 ft)

Expansion cable for slim UV sensor

Heads and Cables (Note 1)

Standard heads (9,300 mW/cm²)
ANUJ6172

- ø12 mm × 50 mm ø0.47 in × 1.97 in
- Cable length 1.9 m 6.2 ft

ANUJ6173

- ø12 mm × 120 mm ø0.47 in × 4.72 in
- Cable length 1.83 m 6.0 ft

Connection cables
ANUJ62**

- For high intensity head
  Cable length 1.7 m 5.6 ft: ANUJ6220
  Cable length 3 m 9.8 ft: ANUJ6230
  Cable length 5 m 16.4 ft: ANUJ6250
  Cable length 7 m 23.0 ft: ANUJ6270
  Cable length 10 m 32.8 ft: ANUJ6200

High intensity heads (10,100 mW/cm²)
ANUJ6170

- ø12 mm × 50 mm ø0.47 in × 1.97 in
- Cable length 0.2 m 0.7 ft

ANUJ6171

- ø12 mm × 120 mm ø0.47 in × 4.72 in
- Cable length 0.13 m 0.4 ft

385 nm wavelength heads (12,800 mW/cm²)
ANUJ6174

- ø12 mm × 50 mm ø0.47 in × 1.97 in
- Cable length 0.2 m 0.7 ft

ANUJ6175

- ø12 mm × 120 mm ø0.47 in × 4.72 in
- Cable length 0.13 m 0.4 ft

Lenses

Standard lenses
ANUJ642*

- Circular irradiation
  ø3 mm ø0.12 in: ANUJ6423
  ø4 mm ø0.16 in: ANUJ6424
  ø6 mm ø0.24 in: ANUJ6426
  ø8 mm ø0.31 in: ANUJ6428
  ø10 mm ø0.39 in: ANUJ6420

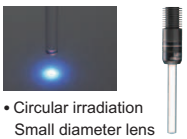
Side view lenses
ANUJ642*SV

- Circular irradiation, Angled at 90°
  ø6 mm ø0.24 in: ANUJ6426SV
  ø8 mm ø0.31 in: ANUJ6428SV
  ø10 mm ø0.39 in: ANUJ6420SV

Cylindrical lenses
ANUJ64S**

- Elliptical irradiation
  R5 : ANUJ6450S
  R7.5: ANUJ6475S

Rod lenses
ANUJ64*7L



- Circular irradiation
  Small diameter lens
  ø4 mm ø0.16 in: ANUJ6447L
  ø6 mm ø0.24 in: ANUJ6467L

Options

UV sensor
ANUJ3800
Slim UV sensor

AC adapter (Note 2)
ANUJ6802
100 to 240 V AC adapter supplied with the controller unit
With a 100 V AC power cable

200 V AC power cable
ANUJ6803
200 V AC power cable for ANUJ6802 (Note 3)

Mounting bracket
ANUJ6804
Mounting bracket for head
Material: Aluminium

Goggles
ANUP5001SG
UV protective goggles

Notes: 1) The lens is not supplied with the head. 2) The ANUJ6802 AC adapter is supplied with the controller. The ANUJ6802 AC adapter is compatible with 100 to 240 V AC; however, the primary side power cable is compatible with 100 V AC only. For use in a 200 V AC region, purchase the ANUJ6803 primary side power cable (for 200 V AC) separately. 3) For China only

Specifications

Controller

		UJ30 (Standard model)	UJ35 (High performance model)
Part No.		ANUJ3000	ANUJ3500
Connectable heads		1 to 4 head	
Connectable UV sensor		Not compatible	Compatible
UV irradiation		One pattern irradiation in simple mode The heads are either collectively or individually controlled.	One pattern in simple mode and programmed pattern irradiation (up to 7 patterns with up to 10 steps) The heads are either collectively or individually controlled.
Pattern switching		None (1 type)	Switchable (8 types)
Intensity/irradiation control		Digital intensity and irradiation control manual or timer control (0.1 to 99.9, 100 to 999 sec) Auto-tuning function using the UV sensor (for UJ35 only) Specifications of UV sensor: [Temperature characteristic: ±5% F.S. (5 to 35°C 41 to 95°F)/Repeat accuracy: ±1% (25°C 77°F)]	
Setting/Operation		Setting by the operation switches and power-on/off by a key switch	RS232C (UJ35 setup tool)
Display		7-segment display	
Cooling system		Natural cooling (without a fan)	
External control	Method	Parallel I/O	RS232C, Parallel I/O
	External input	Individual irradiation input, irradiation stop input, interlock, full-irradiation input, pattern switching	
	External output	READY signal, error signal, alarm output, BUSY output (each head separately), +5 V DC (for indicator)	
Operating voltage		With AC adapter: 100 to 240 V AC (±10%) 50/60 Hz 60 VA (at 100 V AC)	
Ambient temperature/humidity range		0 to +35°C 32 to 95°F, 30 to 85% RH (at 25°C 77°F, no condensation)	
Storage temperature/humidity range		−10 to +60°C 14 to 140°F, 30 to 85% RH (at 25°C 77°F, no condensation)	
Accessories		AC adapter, Key and User's manual	
Weight		1,290 g approx. (Controller: 940 g, AC adapter 350 g)	1,310 g approx. (Controller: 960 g, AC adapter 350 g)

Head

Standard head (Note 1)	Part No.		ANUJ6172	ANUJ6173		
	Cable length		1.9 m 6.2 ft (ANUJ6172) 1.83 m 6.0 ft (ANUJ6173) Directly connectable to the controller			
	Applicable lens	Spot radius	ø3 mm ø0.12 in	ø4 mm ø0.16 in	ø6 mm ø0.24 in	ø8 mm ø0.31 in	ø10 mm ø0.39 in
		Lens Part No.	ANUJ6423	ANUJ6424	ANUJ6426	ANUJ6428	ANUJ6420
	UV intensity (mW/cm²) (Note 2)		9,300	7,900	3,600	1,700	640
	Irradiation distance		10 mm 0.39 in	12 mm 0.47 in	20 mm 0.79 in	25 mm 0.98 in	30 mm 1.18 in
High intensity head	Part No.		ANUJ6170	ANUJ6171			
	Cable length		0.2 m 0.7 ft (ANUJ6170) 0.13 m 0.4 ft (ANUJ6171) The connection cable (1.7 m 5.6 ft/3 m 9.8 ft/5 m 16.4 ft/7 m 23.0 ft/10 m 32.8 ft) is required for connection to the controller.				
	Applicable lens	Spot radius	ø3 mm ø0.12 in	ø4 mm ø0.16 in	ø6 mm ø0.24 in	ø8 mm ø0.31 in	ø10 mm ø0.39 in
		Lens Part No.	ANUJ6423	ANUJ6424	ANUJ6426	ANUJ6428	ANUJ6420
	UV intensity (mW/cm²) (Note 2)		10,100	8,600	3,900	2,000	710
	Irradiation distance		10 mm 0.39 in	12 mm 0.47 in	20 mm 0.79 in	25 mm 0.98 in	30 mm 1.18 in
385 nm wavelength head	Part No.		ANUJ6174	ANUJ6175			
	Cable length		0.2m (ANUJ6174) 0.13m (ANUJ6175) The connection cable (1.7 m 5.6 ft/3 m 9.8 ft/5 m 16.4 ft/7 m 23.0 ft/10 m 32.8 ft) is required for connection to the controller.				
	Applicable lens	Spot radius	ø3 mm ø0.12 in	ø4 mm ø0.16 in	ø6 mm ø0.24 in	ø8 mm ø0.31 in	ø10 mm ø0.39 in
		Lens Part No.	ANUJ6423	ANUJ6424	ANUJ6426	ANUJ6428	ANUJ6420
	UV intensity (mW/cm²) (Note 2)		12,800	10,300	4,900	2,600	870
	Irradiation distance		10 mm 0.39 in	12 mm 0.47 in	20 mm 0.79 in	25 mm 0.98 in	30 mm 1.18 in
Common item	Light source		Class 3B LED product				
	Estimated light source life (Note 3)		20,000 hours (When the temperature of the LED in the head is 60°C 140°F.)				
	Ambient temperature/humidity range		+5 to +35°C +41 to +95°F, 30 to 85% RH (at 25°C 77°F, no condensation)				
	Storage temperature/humidity range		−10 to +60°C +14 to +140°F, 30 to 85% RH (at 25°C 77°F, no condensation)				

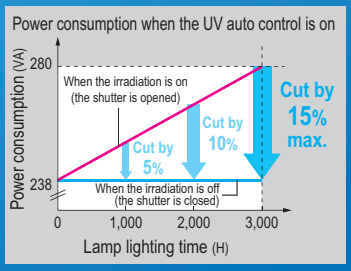
Notes: 1) The cable for standard head is supplied in a fixed length.
2) Secured to standard installation bracket and with 100% initial output at 25°C 77°F ambient temperature.
3) Not a guaranteed value.

Energy-efficient mode will cut power consumption by maximum of 15% when the irradiation is off. Also featuring high-accuracy auto-tuning function

High-efficiency UV irradiation

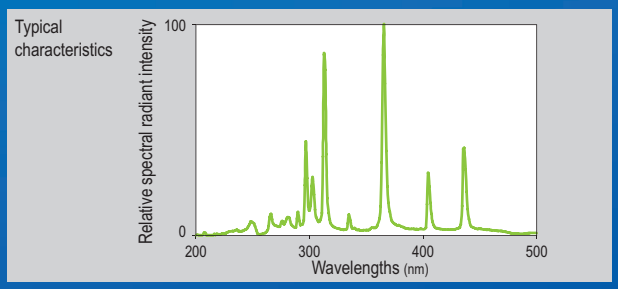
Eco mode reduces power consumption.

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



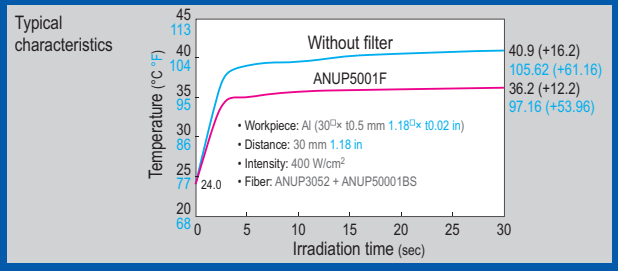
Surface tackiness can be quickly eliminated.

The development and adoption of our unique special mirror that allows for the effective irradiation with short wavelengths enables the quick elimination of surface stickiness caused during curing. The irradiation time can also be reduced, decreasing the temperature rise of workpieces.



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

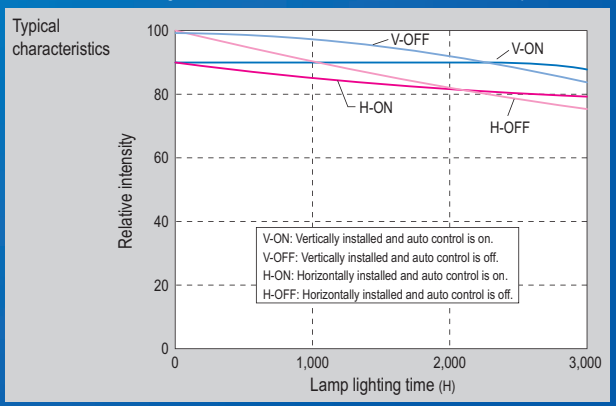
The use of the filter is recommended especially for heat-sensitive workpieces. You can reduce temperature rises in the irradiation unit by attaching a heat reflecting filter depending on the type of workpiece.



Stable UV irradiation performance

UV auto control function automatically compensates for the UV intensity

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.



Significantly higher reliability for bonding and fixing

Panasonic's original

Slim UV sensor (optional)

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

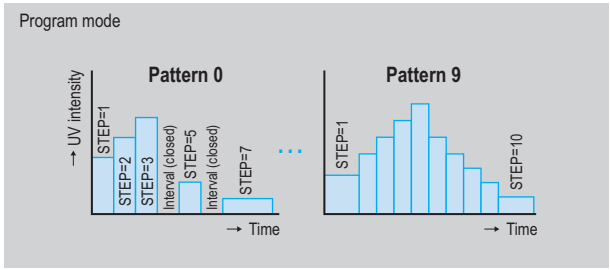
The UV intensity can be relative measured* at the actual position by using the slim UV sensor. It can also automatically adjust the UV intensity to the preset level. Since the sensor only has 5 mm (0.2 in) thickness, which is similar to the workpiece, the intensity measurement is possible without removing the system from the production line, facilitating high-accuracy setting and in-line condition optimization. The UV intensity can be checked and adjusted at 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 controls the irradiation power and time depending on the resin and curing appication, 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 ANUPS204, is also the same as that for the ANUP5204.

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.

(Vertical placement)

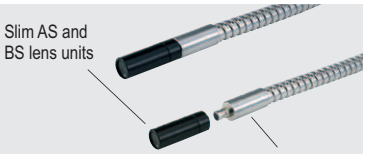
Long life, quickly-attachable lamp

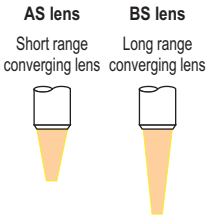
The average lamp life is 3,000 hours (guaranteed life: 2,000 hours*). The lamp can be easily replaced with a single operation and does not require an optical axis adjustment.

* Ratio to the initial UV intensity -- 80% or higher in vertical placement, 70% or higher in horizontal placement

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.





Please refer to page 13 for the UV intensity distribution data.

Specifications

Part No.		**ANUP50**
Power supply		90 to 264 V AC 50/60 Hz 280 VA
Lamp	Lamp Part No.	ANUPS204
		200 W mercury xenon lamp, preset quickly-attachable type * Average life of 3,000 hours: Ratio to the initial UV intensity -- 80% or higher in a vertical position, 70% or higher in a horizontal position (when the auto control function is off) * Guaranteed life: 2,000 hours

UV irradiation		UV intensity adjustment by digital setting (0 to 100%, in increments of 0.5%) UV auto control Programmable irradiation (10 steps in each of 10 patterns) External signal control: Turning the lamp on/off, manual opening/closing of the shutter, starting programmed pattern irradiation, starting timer-controlled irradiation, and executing calibration
Shutter		Electronically-controlled shutter using manual or timer-controlled operation
Setting		Digital setting using membrane switches
External signal	Input	Opening/closing the shutter (timer/manual), lighting the lamp
	Output	Lighting the lamp, stabilizing the lamp light, opening the shutter, outputting error signals, and indicating the lamp life
Dimensions		165 × 201 × 325 mm 6.50 × 7.91 × 12.80 in (Excluding protruding sections)
Weight		8 kg approx.

Please refer to page 12 for the light guide fiber units and other optional parts.

Options

Light guide fiber units

Number of branches	1	2	3	4
Shape				
Bundle diameter: ø3.5 mm ø0.14 in (light outlet end)	ANUP5031	ANUP5032	ANUP5033	ANUP5034
Bundle diameter: ø5 mm ø0.20 in (light outlet end)	ANUP5051	ANUP5052	ANUP5053	ANUP5054
Bundle diameter: ø8 mm ø0.32 in (light outlet end)	ANUP5081	——	——	——

Others

Product name	Specifications	Part No.
Lens*	Short range converging lens	ANUP5001AS
	Long range converging lens	ANUP5001BS
Heat ray cut filter	Reflection type	ANUP5001F
Goggles	UV protective goggles	ANUP5001SG
Lamp	For ANUP50	ANUPS204
Lamp lead wire	For ANUP50	ANUPS50H2
UV sensor	Slim type (Thickness: 5 mm 0.20 in)	ANUJ3800
UV sensor extension cable	Length: 10 m 32.8 ft	ANUJ38110
	Length: 2 m 6.6 ft	ANUJ38102

* Please consult us separately for the lens for the ø8 mm ø0.32 in fiber unit.

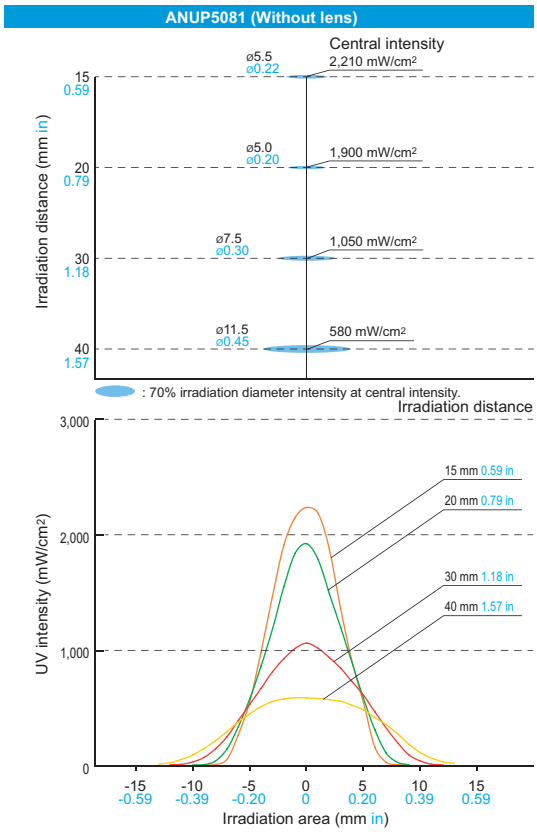
Available for worldwide use

We have local sales companies to support the expansion of customers' global operations. Please visit our website to see our worldwide sales network.

http://panasonic.net/id/pidsx/global

Intensity Profiles (Typical examples)

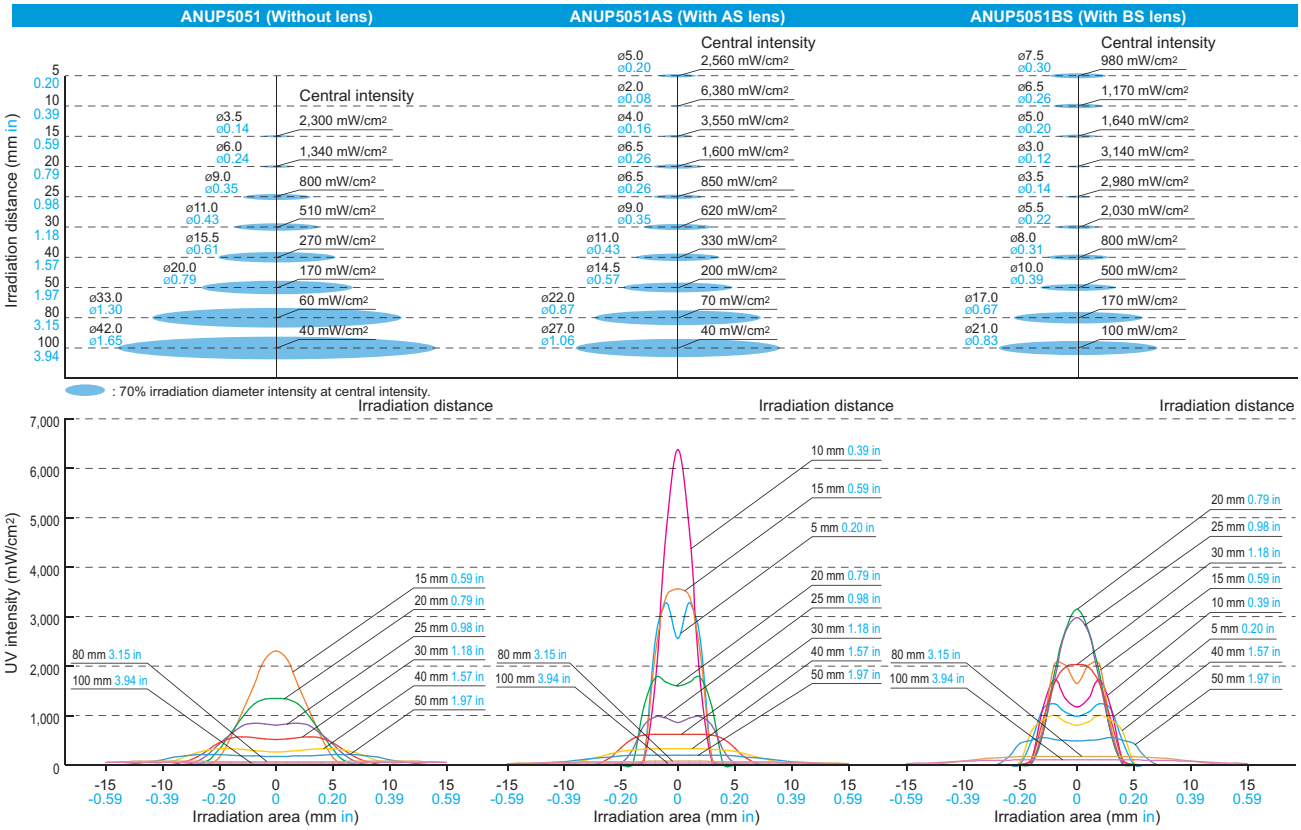
Bundle diameter: ø8 mm ø0.32 in, Straight



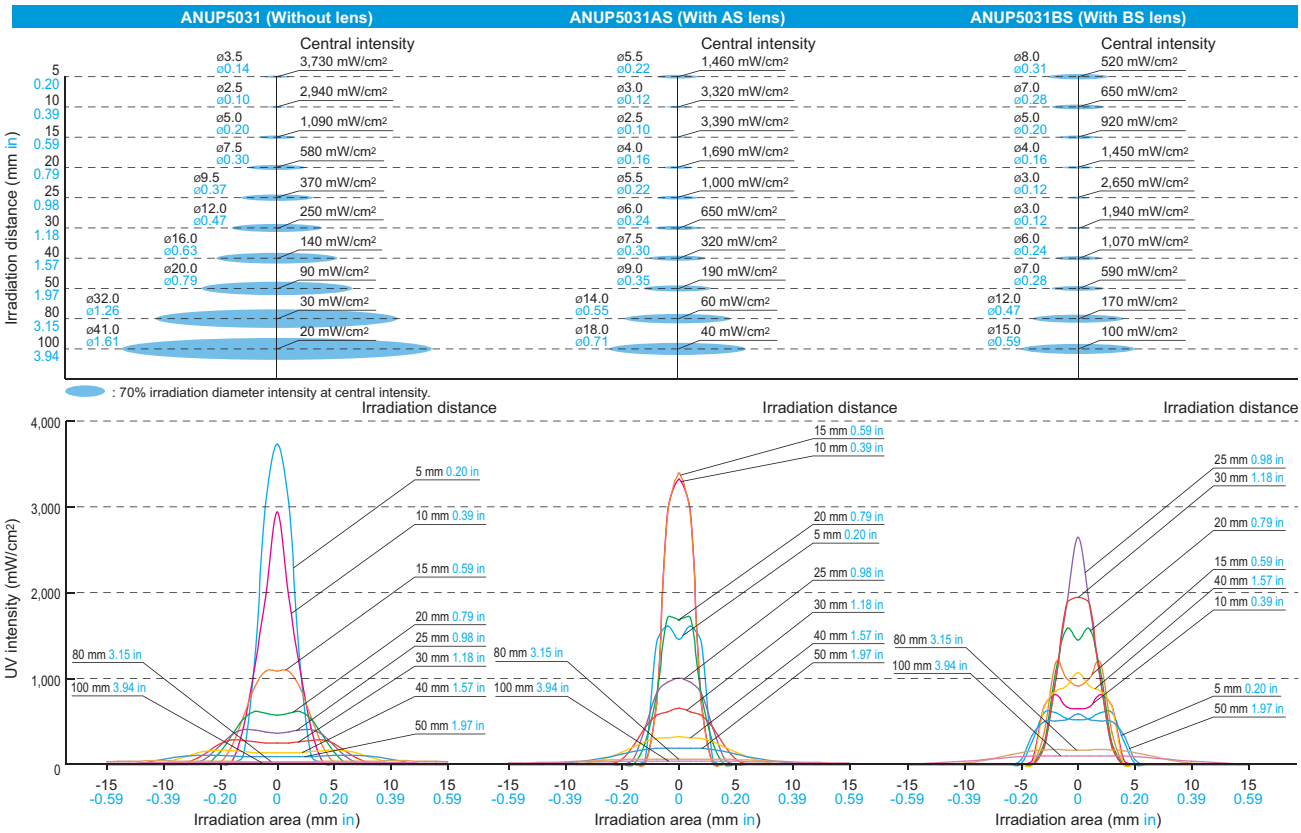
[Rough guide of the relationship between the number of fiber unit branches and the UV intensity ratio]
(Irradiation distance: 15 mm 0.59 in, ø1 mm ø0.04 in sensor)

Fiber unit	UV intensity ratio	
	Without lens	With lens
ø5 × 1 branch	100%	100%
ø5 × 2 branches	75%	65%
ø5 × 3 branches	55%	53%
ø5 × 4 branches	50%	45%
ø3.5 × 1 branch	100%	100%
ø3.5 × 2 branches	80%	75%
ø3.5 × 3 branches	62%	60%
ø3.5 × 4 branches	57%	50%

Bundle diameter: ø5 mm ø0.20 in, Straight



Bundle diameter: ø3.5 mm ø0.14 in, Straight



The DICOOL optical mirror, Metal halide lamp, and UV auto control function supports customer needs.

Ideal for UV irradiation of a variety of workpieces.

High efficiency and high intensity

Functions for this unit has been developed based on lighting and control technologies accumulated over years, including a unique Panasonic light distribution technology (efficient irradiation) and DICOOL optical mirror, which prevents the rise of workpiece temperature. The efficient light distribution allows for high irradiation intensity, significantly enhancing productivity.

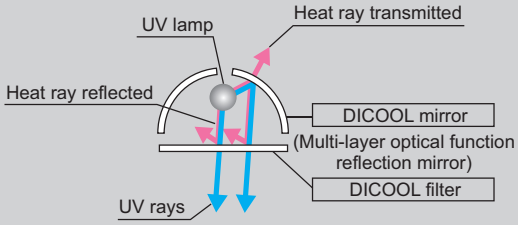
UV auto control function for automatic compensation

Our unique UV auto control function automatically compensates for decrease in the irradiation power due to lamp deterioration over time, maintaining a stable UV irradiation until the end of the lamp life and significantly reducing the workload required for the irradiation power check. As an option, it is possible to add a UV light feedback function to continuously monitor the irradiation power and compensate for a decrease in the power.

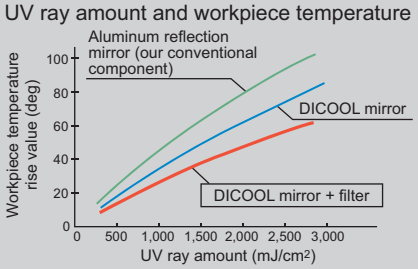
DICOOL optical mirror (reflection mirror) adopted to prevent temperature rise

Our original DICOOL optical mirror which reflects UV rays only has been adopted. The DICOOL filter which transmits UV rays only can also be installed as an option. These components decrease radiant heat from the lamp and reflection mirror, reducing the workpiece temperature rise by about 40%. This feature allows for a wider application to heat-sensitive materials. Also it is equipped with a safety system that stops UV irradiation in case of an excessive temperature rise inside the lamp housing.

Principle of DICOOL optical mirror and DICOOL filter



UV ray amount and workpiece temperature rise

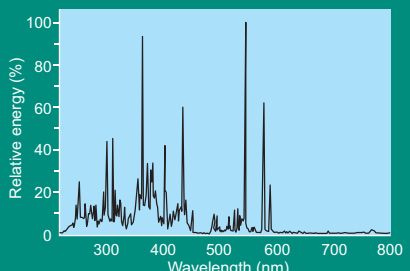


* The DICOOL filter is compatible with all systems. It can also be easily installed in existing systems. (The Part numbers of systems with the DICOOL filter end with "F.")

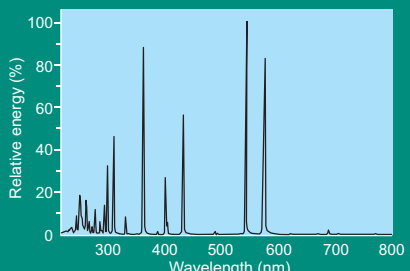
Metal halide lamp developed to significantly increase the thick film curing speed

The metal halide lamp has high luminous efficiency at a wavelength range from 300 to 400 nm, which is about 20% higher than the efficiency of the conventional high-pressure mercury lamp. This lamp is ideal for bonding, printing, marking, etc. of materials containing a color and materials that require thick film application. Also, the lamp type can be selected according to the type of UV-curable resin or coating film thickness, etc.

Spectral energy distribution



Metal halide lamp



High-pressure mercury lamp

Lamp lineup to cover the resin types and applications

The metal halide lamp is suited for thick-film sealing, coating, bonding, and other general purposes.
The high-pressure mercury lamp is suited for applications that require higher surface-curing performance.

A lamp with the best irradiation width can be chosen depending on workpiece size.

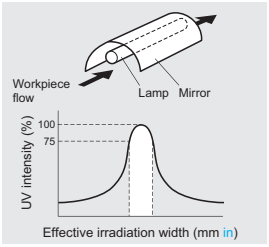
Area with 75 - 100% peak intensity is defined as effective irradiation width. The standard effective irradiation width along the lamp width is 50 mm 1.97 in, and the effective irradiation width along the lamp length is as shown in the table below.
Areas outside the effective irradiation width are also irradiated with UV rays; however, the irradiation intensity in these areas are lower.

Irradiation width and lamp output intensity

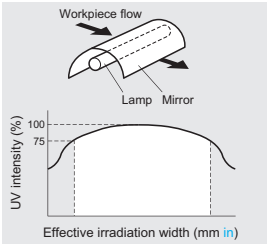
Effective irradiation width (mm in)		Lamp output			Lamp emission length (mm in)
Along the lamp width	Along the lamp length	Lamp output intensity			
		80 W/cm	120 W/cm	160 W/cm	
50 1.97	100 3.94		1.5 kW		125 4.92
50 1.97	150 5.91			3 kW	180 7.09
50 1.97	200 7.87		3 kW		250 9.84
50 1.97	300 11.81	3 kW		6 kW	375 14.76
50 1.97	400 15.75		6 kW		500 19.69
50 1.97	650 25.59	6 kW			750 29.53

* The irradiation distance is 130 mm 5.12 in (DICOOL optical mirror).

Width along the lamp width
(Workpiece flow along the lamp length)

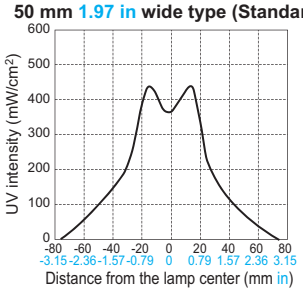


Width along the lamp length
(Workpiece flow perpendicular to the lamp length)



Light distribution and irradiation intensity (in the lamp width direction)

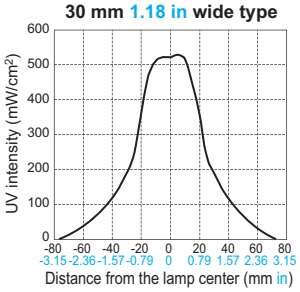
50 mm 1.97 in wide type (Standard)



■Lamp: Metal halide lamp (1.5 kW)
Reflector: DICOOL optical mirror
Distance: 130 mm 5.12 in

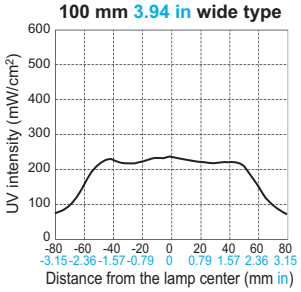
The 30 mm 1.18 in wide and 100 mm 3.94 in wide types are also available.

30 mm 1.18 in wide type



■Lamp: Metal halide lamp (1.5 kW)
Reflector: DICOOL optical mirror
Distance: 130 mm 5.12 in

100 mm 3.94 in wide type



■Lamp: Metal halide lamp (1.5 kW)
Reflector: DICOOL optical mirror
Distance: 130 mm 5.12 in

* The standard type is designed to uniformly irradiate the area of the 50 mm 1.97 in effective irradiation width.

Power supply unit

Function list

Capacity (kW)	Ballast type	UV intensity control function
6	Electronic ballast type (with a UV auto control function)	Continuous intensity control function 50 to 100% range (in 5% increments)
3		
1.5	Transformer type	With a switch for dimming the intensity to 75%

1.5 kW

3 kW

6 kW

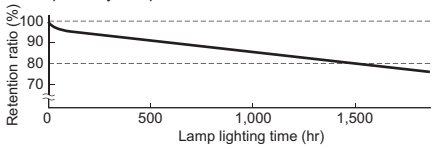
Electronic ballast type has a smaller size and 40% lower energy consumption

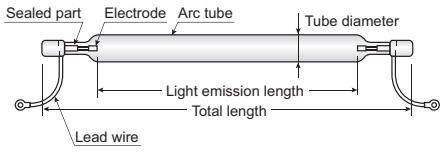
Compared with the conventional model (6 kW), the size and weight has been significantly reduced to approx. 2/3 to 1/3. The power supply capacity has been cut by approx. 40%, achieving significant energy conservation.

Replacement lamps

- UV-curing lamp types include a high-pressure mercury lamp suited for surface curing and a metal halide lamp ideal for thick-film sealing, coating, and bonding.
- You can choose from a wide selection of lamps to find the optimum type for the application.
- The average lamp life is 1,500 hours. Replace the lamp when the total lighting time reaches about 1,500 hours. (The guaranteed life is 1,000 hours.)

■Lamp UV rays output retention curve





		Part No.	Lamp power (kW)	Total length (mm in)	Emission length (mm in)	Tube diameter (mm in)	Effective irradiation width (mm in)	
							Along the lamp length	Along the lamp width
Metal halide lamp	80 W/cm type	ANUM10081	1.0	215 8.46	125 4.92	24 0.94	100 3.94	50 1.97
		ANUM30081	3.0	475 18.70	375 14.76	24 0.94	300 11.81	
		ANUM60081	6.0	850 33.46	750 29.53	24 0.94	650 25.59	
	120 W/cm type	ANUM15021	1.5	215 8.46	125 4.92	24 0.94	100 3.94	50 1.97
		ANUM30021	3.0	350 13.78	250 9.84	24 0.94	200 7.87	
		ANUM60021	6.0	600 23.62	500 19.69	24 0.94	400 15.75	
	160 W/cm type	ANUM30061	3.0	270 10.63	180 7.09	24 0.94	150 5.91	50 1.97
		ANUM60061	6.0	475 18.70	375 14.76	24 0.94	300 11.81	
High-pressure mercury lamp	80 W/cm type	ANUL10081	1.0	215 8.46	125 4.92	24 0.94	100 3.94	50 1.97
		ANUL20081	2.0	350 13.78	250 9.84	24 0.94	200 7.87	
		ANUL30081	3.0	475 18.70	375 14.76	24 0.94	300 11.81	
		ANUL60081	6.0	850 33.46	750 29.53	24 0.94	650 25.59	
	120 W/cm type	ANUL15021	1.5	215 8.46	125 4.92	24 0.94	100 3.94	50 1.97
		ANUL30021	3.0	350 13.78	250 9.84	24 0.94	200 7.87	
		ANUL60021	6.0	600 23.62	500 19.69	24 0.94	400 15.75	
	160 W/cm type	ANUL30061	3.0	270 10.63	180 7.09	24 0.94	150 5.91	50 1.97
		ANUL60061	6.0	475 18.70	375 14.76	24 0.94	300 11.81	

*The effective irradiation width refers to the irradiation width when the light intensity is approx. 75% of the peak intensity. The standard effective irradiation width along the lamp width is 50 mm 1.97 in. Areas outside the effective irradiation width are also irradiated with UV rays; however, the irradiation intensity in such areas is lower, taking longer to complete the curing process.

Precautions for lamp handling

- The arc tube is heated (700 to 800 °C 1,292 to 1,472 °F) during the lamp lighting. If the arc tube makes contact with a foreign substance or the user's bare hands, the dirt can cause the tube to lose its clarity, decreasing the lamp efficiency. When setting up the lamp, wipe the lamp with alcohol.
- Lighting the lamp alone will overheat and shorten the lamp life. Make sure to use a UV irradiation unit designed by our company and cool the lamp.

ANUP8000 Series

Wide selection of 1.5 kW to 6 kW type helps select best option for your production equipment.

- The 3.0 to 6.0 kW types adopt an electronic ballast (with a UV auto control function). The 1.5 kW types adopt a transformer system.
- The lamp housing and the power supply unit can be easily connected by metal connectors.
- The lamp switch automatically runs and stops the lamp cooling fan by timer control.
- The system has a lamp voltmeter and an hour meter.

Power supply unit specifications

Lamp output		1.5 kW	3 kW	6 kW
Ballast type		Transformer	Electronic ballast	
Input power supply		Single-phase	Single-phase	Three-phase
		200 V AC 50/60 Hz (Toggle switch selectable) 15 A	200/220/240 V AC 50/60 Hz 30 A	200 V AC 50/60 Hz 30 A
Lamp	Metal halide lamp	1.5 kW	3 kW	6 kW
	High-pressure mercury lamp			
External output signals (Monitor function)		—	Detection of lamp-on, lamp stabilized, errors, and cooling fan operation (the 6 kW type only)	
External input signals (Remote control function)		—	Lamp-ON/OFF, lamp output switching, interlock, and shutter open/close (available in the type with the shutter function)	
Error monitor displays		Lamp housing temperature errors, lamp cooling fan errors	Lamp errors, lamp error output, power supply unit errors, lamp housing temperature errors, lamp cooling fan errors, and interlock	
Lamp intensity control		With a switch for dimming the intensity to 75%	Adjustable range: 100 to 50%	
Auto control function (UV intensity retention function)		—	Equipped	Equipped, adjustable range: 100 to 65%
Power supply unit size (mm in) L × W × H		450 × 310 × 175 17.72 × 12.20 × 6.89	340 × 450 × 247 13.39 × 17.72 × 9.72	270 × 685 × 475 10.63 × 26.97 × 18.70
Weight		32 kg approx.	28 kg approx.	45 kg approx.

Lamp housing

Power supply unit

Dimensions (Typical models)

Power supply unit			
Power supply unit lamp output	Ballast type	Power supply unit size (mm in) L × W × H	Weight (kg approx.)
1.5 kW	Transformer type	450 × 310 × 175 17.72 × 12.20 × 6.89	32
3 kW	Electronic ballast type	310 × 450 × 247 12.20 × 17.72 × 9.72	28
6 kW	Electronic ballast type	270 × 685 × 475 10.63 × 36.97 × 18.70	45

Lamp housing (without shutter)	Size in parentheses: with the filter attached		
Power supply unit lamp output	Lamp output intensity	Lamp housing size (mm in) L × W × H	Weight (kg approx.)
1.5 kW	80 W/cm	378 × 160 × 257 (+22) 14.88 × 6.30 × 10.12 (+0.87)	10
3 kW	80 W/cm	573 × 192 × 350 (+22) 22.56 × 7.56 × 13.78 (+0.87)	15
6 kW *	80 W/cm	948 × 160 × 170 (+22) 37.32 × 6.30 × 6.69 (+0.87)	20
1.5 kW	120 W/cm	348 × 160 × 257 (+22) 13.70 × 6.30 × 10.12 (+0.87)	10
3 kW	120 W/cm	448 × 192 × 350 (+22) 17.64 × 7.56 × 13.78 (+0.87)	15
6 kW *	120 W/cm	948 × 160 × 170 (+22) 37.32 × 6.30 × 6.69 (+0.87)	20
3 kW	160 W/cm	378 × 192 × 350 (+22) 14.88 × 7.56 × 13.78 (+0.87)	15
6 kW *	160 W/cm	573 × 160 × 170 (+22) 22.56 × 6.30 × 6.69 (+0.87)	15

* 6 kW type: When the lamp cooling fan is separately installed

Lamp housing (with shutter)	Size in parentheses: with the filter attached		
Power supply unit lamp output	Lamp output intensity	Lamp housing size (mm in) L × W × H	Weight (kg approx.)
1.5 kW	80 W/cm	458 × 200 × 307 (+16) 18.03 × 7.87 × 12.09 (+0.63)	15
3 kW	80 W/cm	653 × 212 × 383 (+16) 25.71 × 8.35 × 15.08 (+0.63)	15
6 kW *	80 W/cm	1,028 × 200 × 203 (+16) 40.47 × 7.87 × 7.99 (+0.63)	20
1.5 kW	120 W/cm	428 × 200 × 307 (+16) 16.85 × 7.87 × 12.09 (+0.63)	15
3 kW	120 W/cm	528 × 212 × 383 (+16) 20.79 × 8.35 × 15.08 (+0.63)	15
6 kW *	120 W/cm	1,028 × 200 × 203 (+16) 40.47 × 7.87 × 7.99 (+0.63)	20
3 kW	160 W/cm	458 × 212 × 383 (+16) 18.03 × 8.35 × 15.08 (+0.63)	20
6 kW *	160 W/cm	653 × 200 × 203 (+16) 25.71 × 7.87 × 7.99 (+0.63)	20

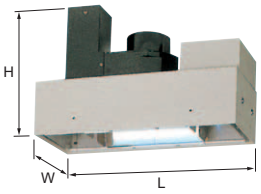
* 6 kW type: When the lamp cooling fan is separately installed

Separate lamp cooling fan		
Power supply unit lamp output	Size (mm in) L × W × H	Weight (kg approx.)
6 kW	370 × 407 × 370 14.57 × 16.02 × 14.57	15

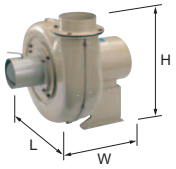
● A duct is excluded.

Power supply unit

Lamp housing



Separate lamp cooling fan



Remarks

- A high-purity aluminum reflector type is also available.
  - This type is made to order.
  - Consult us if you need to use a shutter or a DICOOL filter.
- Please consult us for any other specification options you require.
  (E.g. Addition of an exhaust temperature sensor)

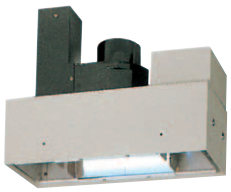
ANUP8000 Series (Standard type)

Tube type standard model Easy to install and set up.

Specifications (ANUP8154) (1.5 kW type)

Power supply	Single-phase 200 V (50/60 Hz), 15 A
UV lamp	1.5 kW x 1 lamp
Conveyable workpiece size	100 mm 3.94 in wide x 50 mm 1.97 in high
Effective irradiation width	50 mm 1.97 in
System size	Lamp housing: L 400 mm x W 160 mm x H 257 mm L 15.75 in x W 6.30 in x H 10.12 in
	Power supply unit: L 450 mm x W 310 mm x H 160 mm L 17.72 in x W 12.20 in x H 6.30 in
System weight	Power supply unit: 32 kg approx. Lamp housing: 10 kg approx.

The 3 kW to 6 kW types are also available.



Lamp housing

Power supply unit

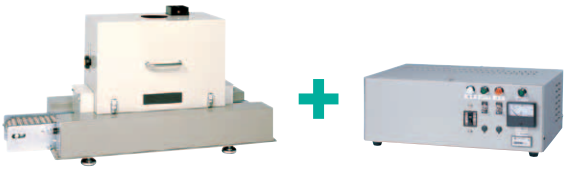
ANUP3000 Series (Bench top type)

The power supply unit is separate, and the system can be placed on the same rack as other peripheral equipment, allowing for easy setup of the system

Specifications (ANUP3154) (Typical part No.)

Power supply	Single-phase 200 V (50/60 Hz), 15 A
UV lamp	1.5 kW x 1 lamp
Conveyor speed	0.3 to 5 m/min
Conveyor belt	Stainless steel mesh belt
Conveyable workpiece size	100 mm 3.94 in wide x 50 mm 1.97 in high
Effective irradiation width	50 mm 1.97 in
System size	Conveyor unit: L 805 mm x W 300 mm x H 400 mm L 31.69 in x W 11.81 in x H 15.75 in
	Power supply unit: L 450 mm x W 310 mm x H 160 mm L 17.72 in x W 12.20 in x H 6.30 in
System weight	Power supply unit: 32 kg approx. Conveyor unit: 46 kg approx.

- The intensity is adjustable to 75 and 100%
- Ideal for workpieces of 100 mm 3.94 in or less in width and an irradiation width of 50 mm 1.97 in or less.
- The lamp height can be easily adjusted according to the workpiece height.



Conveyor unit Power supply unit

ANUP7328E (Standalone type)

General-purpose type that supports a wide variety of workpieces, including electronic components and PC boards

Specifications (ANUP7328E)

Power supply	Single-phase 200 V (50/60 Hz), 30 A
UV lamp	3 kW x 1 lamp
Conveyor speed	0.3 to 5 m/min
Conveyor belt	Stainless steel mesh belt
Conveyable workpiece size	300 mm 11.81 in wide x 100 mm 3.94 in high
Conveyor height	750 ±25 mm 29.53 ±0.98 in
Effective irradiation width	200 mm 7.87 in
System size	L 1,200 mm x W 600 mm x H 1,100 mm L 47.24 in x W 23.62 in x H 43.31 in
System weight	110 kg approx.

- The intensity can be adjusted to a range from 50 to 100% in increments of 5%.
- Ideal for workpieces of 300 mm 11.81 in or less in width and an irradiation width of 200 mm 7.87 in or less.
- The lamp height can be easily adjusted according to the workpiece height.
- The lightweight compact design facilitates in-line installation with other equipment.

We can also offer products using 1.5 kW to 6 kW type power supply units and lamps according to your requirements of the irradiation area and energy.
In addition, the following specification options are also available. Please consult us for details.

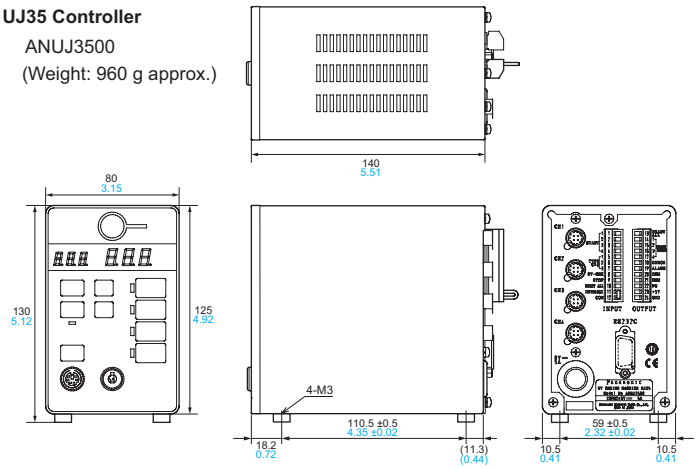
1. Changing the belt to a heat-resistant resin belt
2. Changing the belt conveyor width and/or length
3. Changing the system to a two-lamp irradiation type
4. Adding an exhaust temperature sensor
5. Decreasing the irradiation unit temperature (Adding a cooling filter)
6. External remote control of the belt conveyor speed
7. Adding a conveyor speed display
8. Making a conveyor-equipped type based on ANUP8000 Series
9. The irradiation unit position can be customized to be, for example, perpendicular or parallel with respect to the workpiece flow direction if necessary.

Dimensions (Unit: mm in) Excluding the protruding sections

UJ30/35

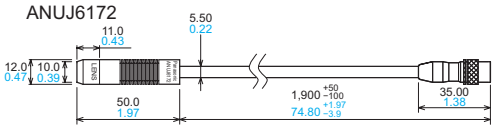
UJ35 Controller

ANUJ3500
(Weight: 960 g approx.)

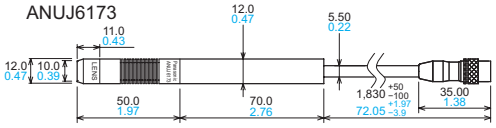


Head (with standard lens)

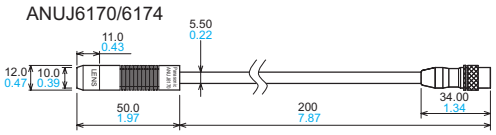
ANUJ6172



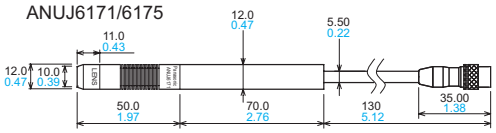
ANUJ6173



ANUJ6170/6174

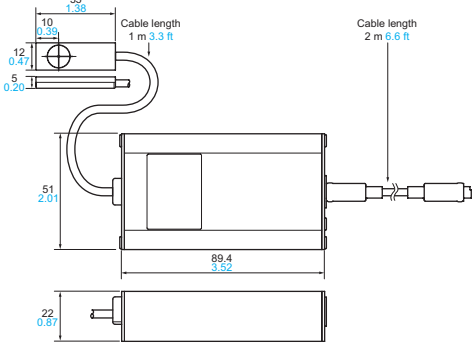


ANUJ6171/6175



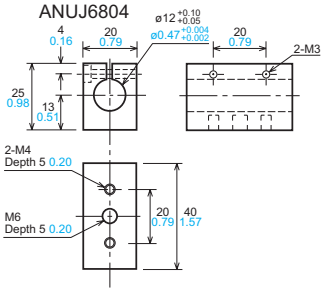
UV sensor

ANUJ3800



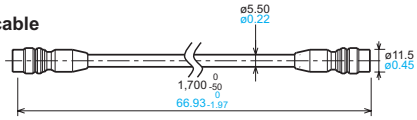
Mounting bracket for head

ANUJ6804

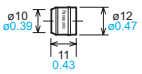


Connection cable

ANUJ6220

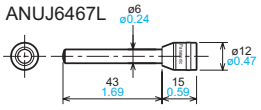


Standard and Cylindrical lens

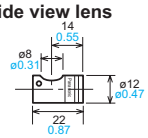


Rod lens

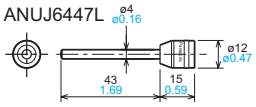
ANUJ6467L



Side view lens

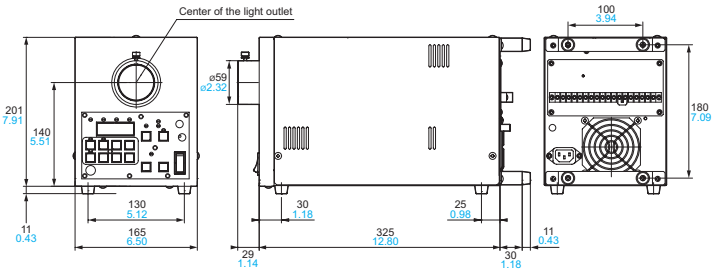


ANUJ6447L

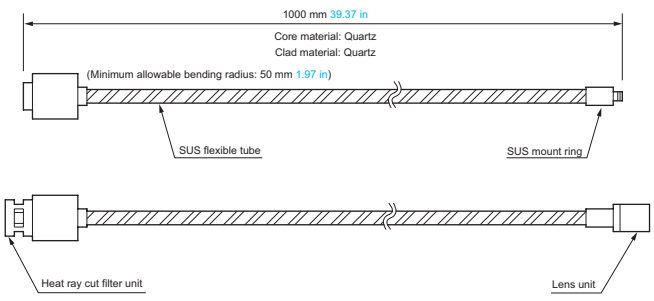


ANUP50

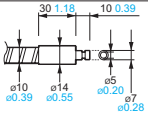
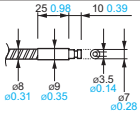
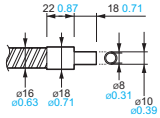
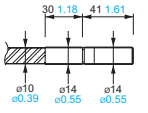
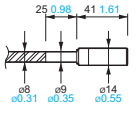
ANUP50 Controller



Light guide fiber units



Light outlet end shape

	Fiber bundle diameter: ø5 mm ø0.20 in	Fiber bundle diameter: ø3.5 mm ø0.14 in	Fiber bundle diameter: ø8 mm ø0.31 in
Without lens			
For AS with lens and BS lens			—

Part No. List

LED Spot Type

	Product name	Connectable heads	Connectable UV sensor	Accessories	Part No.
Controllers	UJ30 Controller (Standard model)	1 to 4 heads	Not compatible	AC adapter (ANUJ6802)	ANUJ3000
	UJ35 Controller (High performance model)	1 to 4 heads	Compatible	AC adapter (ANUJ6802)	ANUJ3500

	Product name	Head size	Cable length	Remarks	Part No.
Heads and Cables	Standard heads (UV intensity: 9,300 mW/cm²)	ø12 mm × 50 mm ø0.47 in × 1.97 in	1.9 m 6.2 ft	Directly connectable to the controller	ANUJ6172
		ø12 mm × 120 mm ø0.47 in × 4.72 in	1.83 m 6.0 ft		ANUJ6173
	High intensity heads (UV intensity: 10,100mW/cm²)	ø12 mm × 50 mm ø0.47 in × 1.97 in	0.2 m 0.7 ft	A connection cable (ANUJ62**) is required for connection to the controller.	ANUJ6170
		ø12 mm × 120 mm ø0.47 in × 4.72 in	0.13 m 0.4 ft		ANUJ6171
	385 nm wavelength heads (UV intensity: 12,800mW/cm²)	ø12 mm × 50 mm ø0.47 in × 1.97 in	0.2 m 0.7 ft		ANUJ6174
		ø12 mm × 120 mm ø0.47 in × 4.72 in	0.13 m 0.4 ft		ANUJ6175
	Connection cables	—	1.7 m 5.6 ft	For connection of the high intensity head and the 385 nm wavelength head	ANUJ6220
		—	3 m 9.8 ft		ANUJ6230
		—	5 m 16.4 ft		ANUJ6250
		—	7 m 23.0 ft		ANUJ6270
		—	10 m 32.8 ft		ANUJ6200

	Product name	Irradiation type	Lens diameter	Part No.
Lenses	Standard lenses	Circular irradiation	ø3 mm ø0.12 in	ANUJ6423
			ø4 mm ø0.16 in	ANUJ6424
			ø6 mm ø0.24 in	ANUJ6426
			ø8 mm ø0.31 in	ANUJ6428
			ø10 mm ø0.39 in	ANUJ6420
	Side view lenses	Circular irradiation, Angled at 90°	ø6 mm ø0.24 in	ANUJ6426SV
			ø8 mm ø0.31 in	ANUJ6428SV
			ø10 mm ø0.39 in	ANUJ6420SV
	Cylindrical lenses	Elliptical irradiation	R5	ANUJ6450S
			R7.5	ANUJ6475S
	Rod lenses	Circular irradiation, Small diameter lens	ø4 mm ø0.16 in	ANUJ6447L
			ø6 mm ø0.24 in	ANUJ6467L

	Product name	Descriptions	Part No.
Options	UV sensor	Slim type (Thickness: 5 mm 0.20 in)	ANUJ3800
	Expansion cable for UV sensor	Cable length: 10 m 32.8 ft	ANUJ38110
		Cable length: 2 m 6.6 ft	ANUJ38102
	AC adapter (Note 1)	100 to 240 V AC adapter supplied with the controller unit, With a 100 V AC power cable	ANUJ6802
	200 V AC power cable	200 V AC power cable for ANUJ6802 (Note 2)	ANUJ6803
	Mounting bracket		ANUJ6804
	Goggles	UV protective goggles	ANUP5001SG

Notes: 1) The ANUJ6802 AC adapter is supplied with the controller. The ANUJ6802 AC adapter is compatible with 100 to 240 V AC; however, the primary side power cable is compatible with 100 V AC only. For use in a 200 V AC region, purchase the ANUJ6803 primary side power cable (for 200 V AC) separately.
2) For China only

Lamp Spot Type

	Product name	UV lamp	UV irradiation	Allowable number of fiber branches	Power supply	Part No.
Controller	ANUP50	200 W Mercury xenon lamp	UV auto control, Electronically-controlled shutter	1 to 4 branches	90 to 264 V AC 50/60 Hz 280 VA	ANUP50

	Bundle diameter	Number of branches	Part No.
Light guide fiber units	ø3.5 mm ø0.14 in	1 branch	ANUP5031
		2 branches	ANUP5032
		3 branches	ANUP5033
		4 branches	ANUP5034
	ø5 mm ø0.20 in	1 branch	ANUP5051
		2 branches	ANUP5052
		3 branches	ANUP5053
		4 branches	ANUP5054
	ø8 mm ø0.31 in	1 branch	ANUP5081

	Product name	Specifications	Part No.
Accessories	Lens (Note)	Short range converging lens	ANUP5001AS
		Long range converging lens	ANUP5001BS
	Heat ray cut filter	Reflection type	ANUP5001F
	Goggles	UV protective goggles	ANUP5001SG
	Lamp	For ANUP50	ANUPS204
	Lamp lead wire	For ANUP50	ANUPS50H2
	UV sensor	Slim type (Thickness: 5 mm 0.20 in)	ANUJ3800
	Expansion cable for UV sensor	Length: 10 m 32.8 ft	ANUJ38110
		Length: 2 m 6.6 ft	ANUJ38102

Note: Please consult us separately for the lens for the ø8 mm ø0.31 in fiber unit.

LED Tube Type

	Product name	Effective irradiation width	Lamp output	Descriptions			Typical Part No.
Controllers	8000 Series	50 mm × 100 mm 1.97 in × 3.94 in	1.5 kW	Lamp length: 125 mm 4.92 in	Metal halide lamp	Replacement lamp: ANUM15021	ANUP8154
	7000 Series	200 mm 7.87 in	3 kW	Number of lamp: 1 lamp	Metal halide lamp	Replacement lamp: ANUM30021	ANUP7328E
	3000 Series	50 mm 1.97 in	1.5 kW	Number of lamp: 1 lamp	Metal halide lamp	Replacement lamp: ANUM15021	ANUP3154

LED Line Type UV Curing System **UD90** SERIES

Coming soon!

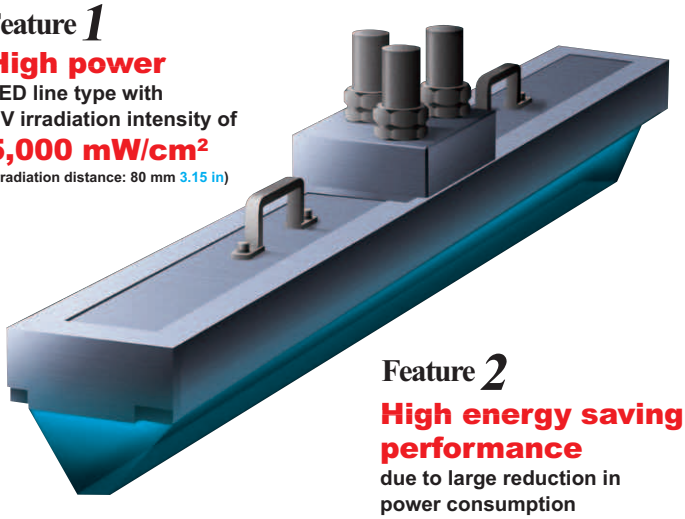
Feature 1

High power

LED line type with UV irradiation intensity of

5,000 mW/cm²

(Irradiation distance: 80 mm 3.15 in)



Feature 2

High energy saving performance

due to large reduction in power consumption

(Approx. 1/5 compared to lamp types)

Controller

Feature 3

Mercury free and heating control

Environmentally-conscious and worksite-friendly product

(Compared to lamp types)

Advantages of LED Type UV Curing System

Cost advantages

- Exhaust air duct equipment is not required
- Long life light source (Compared to lamp types, approx. 15 times longer)
- Power consumption reduction
- Instantaneous lighting and partial lighting are possible

Environment advantages

- No ozone odors • Mercury free • CO_2 reduction • Heating effect control

Product Specifications (typical model)

Product name	LED Line Type UV Curing System **UD90** series
UV output *1	Area with 5,000 mW/cm² or higher intensity (80 mm 3.15 in from lower surface of irradiation part) Effective irradiation width 780 mm 30.71 in
UV wavelength	385 nm ±10 nm or 365 nm ±10 nm
Estimated light source life	15,000 hours approx. (70% compared to the initial UV intensity) * This is the estimated life, not a guaranteed value.
Cooling system	Forced water cooling system * Freshwater (tap water) can be used.
Irradiation portion size /weight	L 958 × W 200 × H 110 mm L 37.72 × W 7.87 × H 4.33 in Dry weight = 25 kg approx. (including connecting plumbing and wiring)
Input power supply for controller	Single phase 200 to 240 V AC (±10%) 50/60 Hz
Power consumption for controller	6 kVA max.
Size/weight for controller	L 500 × W 300 × H 685 mm L 19.69 × W 11.81 × H 26.97 in (Including casters) / 57 kg approx.
Others	A separate chiller (cooling device) is required

*1 UV output: area with 8,000 mW/cm² or higher intensity (30 mm 1.18 in from lower surface of irradiation part) is also supported.

Regarding this product, please contact us by e-mail.
http://panasonic.net/id/pidsx/e → [Contact us]

Introduction of Related Products

Ideal for use with compact size equipment for “Positioning”, “Detection of level distance”, or “Detection of protrusion”

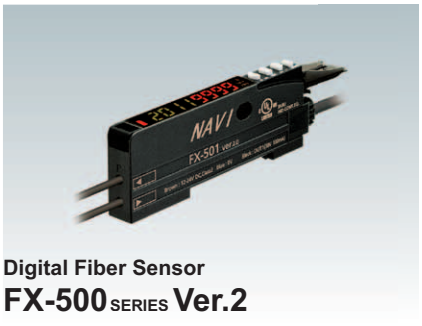
Amplifier built-in, Ultra-compact Laser Sensor

EX-L200 SERIES

■Major features

1. Ultra-compact size	The volume is down 67% from that of our general-purpose photoelectric sensor.
2. Easy alignment	The bright beam facilitates optical axis alignment.
3. High precision	Model No. EX-L211 can detect a minimum sensing object ø0.3 mm ø0.01 in (typical).
4. Easy to use	M3 screw used for secure tightening
5. Environmental resistance	Strong against water and dust with protection structure IP67

Leading-edge detection performance ideal for higher-speed equipment and finer workpieces



Digital Fiber Sensor

FX-500 SERIES **Ver.2**

■Major features

1. High stability	Digital control is essentially achieved.
2. A different accuracy	Accurately detects slight changes in light intensity.
3. High response	25 µs quick response
4. New design	Equipped with an easily viewable digital display and a small cover

Ideal for static protection and productivity improvement of a variety of assembly processes

Ionizer ER-F SERIES

■Major features

1. Compact and lightweight	150 x 166 x 62 mm 5.91 x 6.54 x 2.44 in compact size and 790 g approx. lightweight body
2. Easy setting	Usable for a variety of applications by simply replacing exchangeable louvers according to the charge removal area
3. Effortless maintenance	The unitized discharge needles facilitate maintenance work.

Please contact .....

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