

Carefully Designed Operability, Functionality, and Various Irradiation Styles
Pursued High Cost-performance

UV-LED Spot Curing System

A Controller with Easy-to-use Features and Carefully Designed Functions

High power (Wavelength: 365 nm, UV intensity: 11,000 mW/cm²) * When 3-mm spot lens is used.
We use reliable and high-quality LED to realize a steady irradiation.

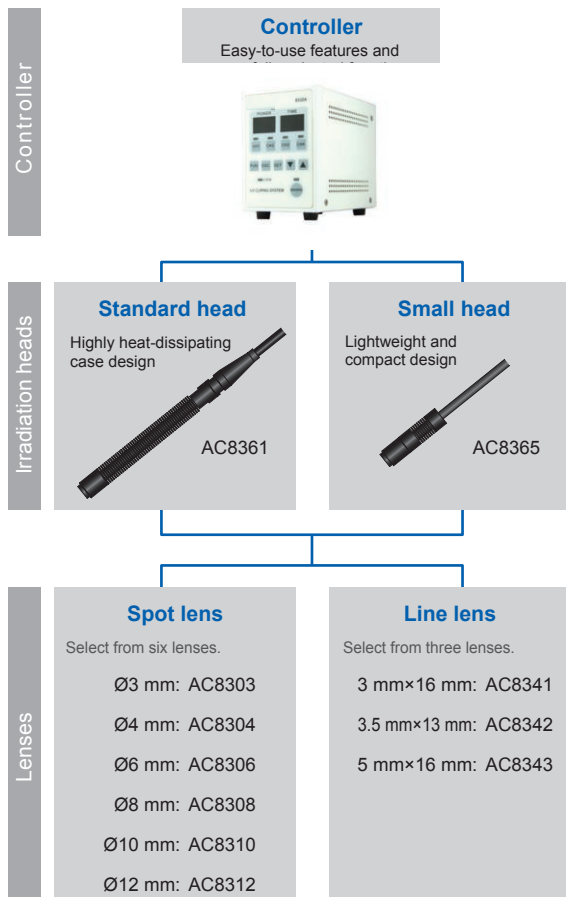
Long lifetime of 20,000 hours with a low power consumption of 25 W
Compared with the conventional lamp-type UV box, this controller has made a significant reduction in running cost.

4 individually controllable heads
Irradiation ON/OFF and irradiation time of the four irradiation heads are individually controlled in a single unit.

I/O port and RS-232 communication interface
You can control the irradiation pattern externally.

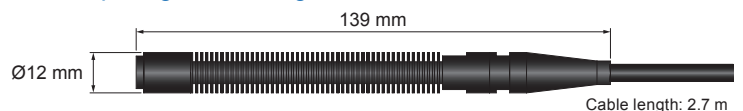


Various Irradiation Styles to Meet Your Needs



You can select the irradiation head matching with your installation environment.

Standard head can provide a steady performance with a highly heat-dissipating case design.

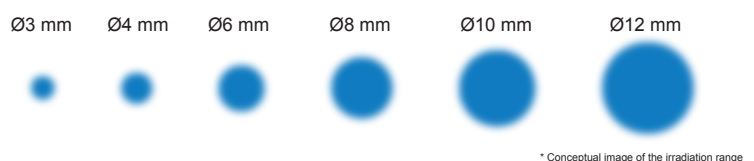


Small head can achieve space saving with its lightweight and compact design.

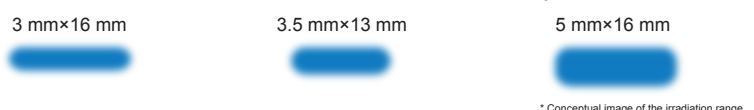


You can select the best irradiation pattern according to your adhesion conditions.

Spot lens has six size variations to achieve optimum irradiation.



Line lens has three size variations to achieve optimum irradiation.



Specifications

Controller

Model	8332AI	
Irradiation type	Time specified irradiation	Intensity (1 to 100%), Irradiation time (0.1 to 999 sec)
	Continuous irradiation	Intensity (1 to 100%) Irradiation time depends on the external signal.
Communication ports for Controlling	I/O Input	Irradiation ON/OFF (Response time: 20 ms), Data bank switching, Interlock
	I/O Output	Irradiation status output, Warning output, Error output
	RS-232C	Irradiation control, Parameter setting/loading
Error detection	Unconnected Heads, Circuit shortage/open, Abnormal temperature	
Displaying method	Digital display	
Number of irradiation output ports	4 (Controlled individually)	
Input voltage	100 to 240 VAC, 50/60 Hz (Including the AC adapter)	
Power consumption	25 W max.	
Cooling method	Natural air cooling (Without fans)	
Vibration resistance	10 to 150 Hz, Acceleration: 50 m/s ² , Half amplitude: 0.35 mm 10 times/8 minutes in each x, y, and z direction	
Shock resistance	Height: 1.5 m, 3 times in each side (Top and bottom, right and left, front and rear, and 45°)	
Ambient temperature	Operation: 5 to 40°C, Storage: -15 to 65°C (with no condensation, freezing)	
Ambient humidity	20 to 85% (with no condensation, freezing)	
Weight	750 g (Excluding the AC adapter and irradiation heads)	
Accessories	AC adapter, Foot switch, Protection glasses, Guide book	

Irradiation heads

Model	AC8361 (Standard head)	AC8365 (Small head) *
Wavelength	365 nm (We accept custom orders for the products with 385 nm.)	
Allowable bending radius	30 mm	
Material	Copper, Aluminum alloy, Glass	
Weight	150 g (Excluding the mounting bracket)	

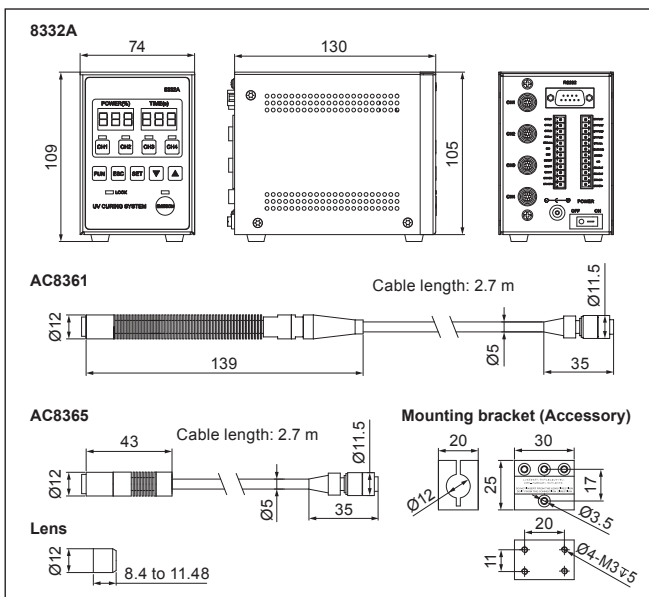
* When you install the small head, use the mounting bracket that comes with the product.

Spot lens

Model	AC8303	AC8304	AC8306	AC8308	AC8310	AC8312
Spot diameter	Ø3 mm	Ø4 mm	Ø6 mm	Ø8 mm	Ø10 mm	Ø12 mm
Irradiation distance	9 to 11 mm	11 to 13 mm	16 to 18 mm	22 to 24 mm	32 to 34 mm	35 to 37 mm
Maximum intensity*	11,000 mW/cm ²	9,200 mW/cm ²	4,000 mW/cm ²	2,300 mW/cm ²	1,300 mW/cm ²	900 mW/cm ²
Material	Aluminum alloy, Glass					

* This data was measured at 100% intensity using the mounting bracket, and was based on our measurement conditions. (This does not guarantee the product quality.)

Outer Dimensions (mm)



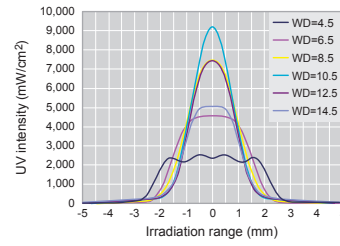
This product is a purchased product.

UV Intensity Profile (Examples)

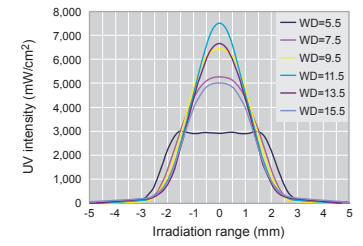
* WD: The distance between the outermost tip of the lens and the workpiece.
* This data was measured at 100% intensity using the mounting bracket, and was based on our measurement conditions. (This does not guarantee the product quality.)

Spot lens

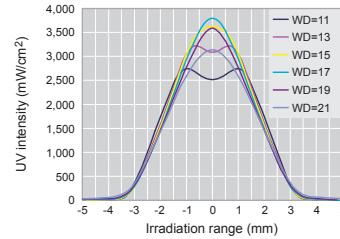
AC8303 (Ø3 mm)



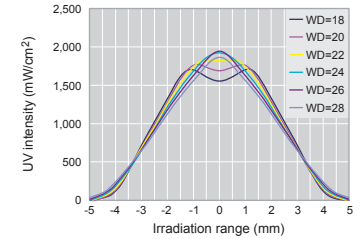
AC8304 (Ø4 mm)



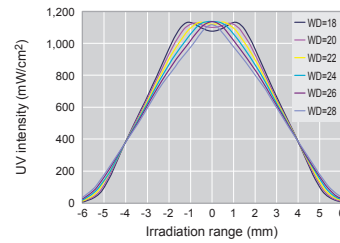
AC8306 (Ø6 mm)



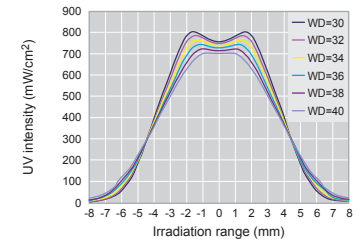
AC8308 (Ø8 mm)



AC8310 (Ø10 mm)

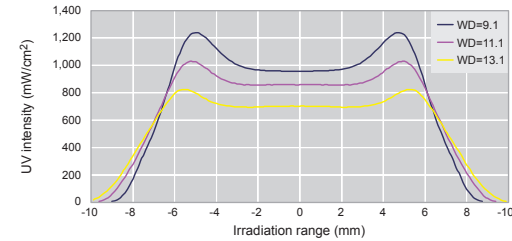


AC8312 (Ø12 mm)

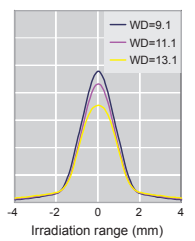


Line lens

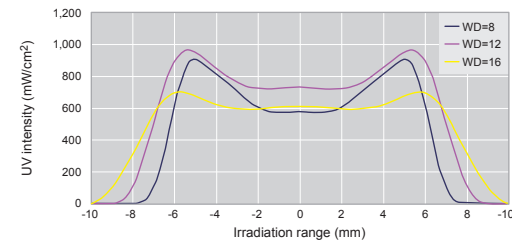
AC8341 (3 mm × 16 mm)



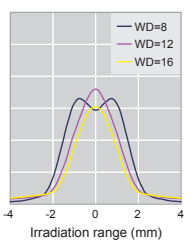
Short side



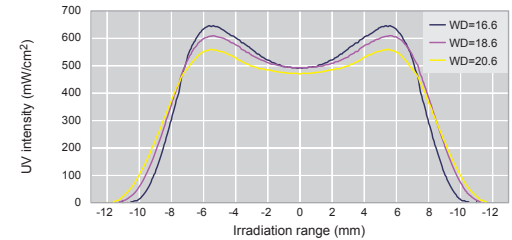
AC8342 (3.5 mm × 13 mm)



Short side



AC8343 (5 mm × 16 mm)



Short side

