

# UV-LED Spot Curing System 8332C

## Wavelength lineup including deep ultraviolet

280nm | 365nm | 385nm | 405nm

### Pursued High Cost-performance

#### High performance head for easy operation

##### High intensity of 18,000mW/cm<sup>2</sup>\*1

High power is achieved by using high power LED and unique optical design.

##### Wide range of wavelengths

Selectable from 280nm, 365nm, 385nm, 405nm

##### Long lifetime of 20,000 hours with a low power consumption of 25 W \*2

Compared with the conventional lamp-type UV box, this controller has made a significant reduction in running cost.\*3

##### 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.

\*1 Using Ø3mm spot lens (365nm), WD: 5.5mm with mid-level radiant flux

\*2 Excluding 280nm

\*3 Comparison using previously purchased lamp-type light source (based on data from Jan 2021). Power consumption: 25W (8332C) vs. 200W (Lamp), Lifetime: 20,000hr (8332C) vs. 2,000hr (Lamp)

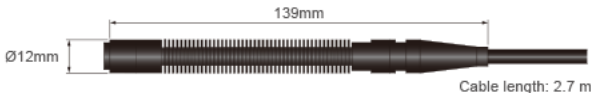


Protection glasses and Foot switch included

## Various Irradiation Styles to Meet Your Needs

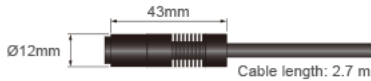
## You can select the irradiation head for your installation environment

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



(2) Small head can save space with its lightweight and compact design.

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

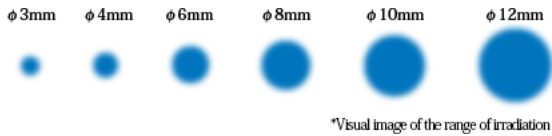


## You can select from four different wavelengths according to your workpiece conditions.

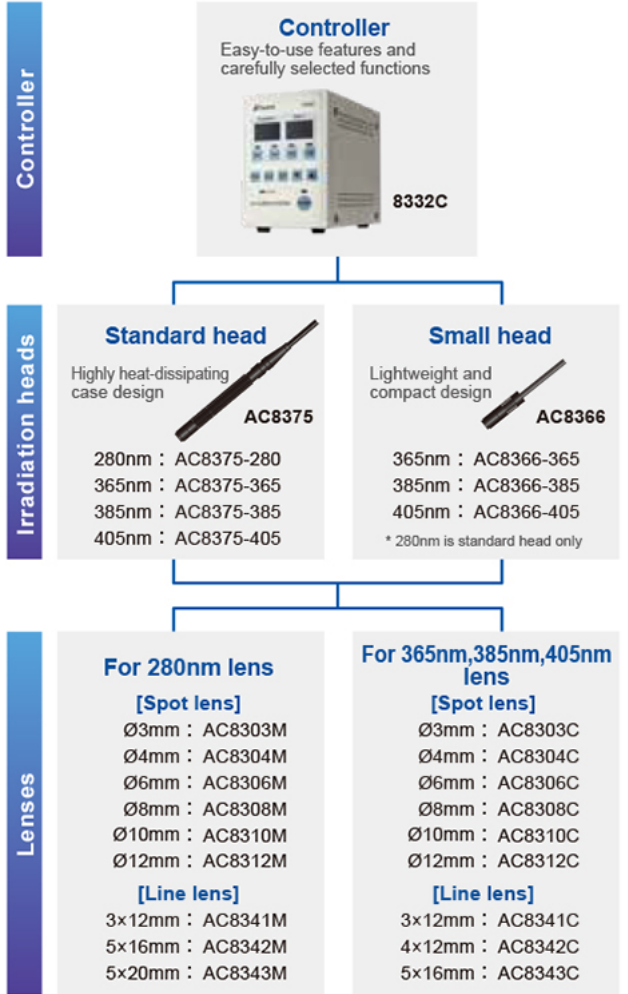
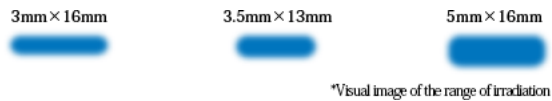
280nm, 365nm, 385nm, 405nm

## You can select from four different wavelengths according to your workpiece conditions.

(1) Spot lens has six size variations to achieve optimum irradiation.



(2) Line lens has three size variations to achieve optimum irradiation.



\* By using a conversion cable, the 8332A head can also be used.

## Product Outline

### ● Specifications

[Controller](#) [Head](#)

#### Controller

Model Name		8332C	
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	Parallel I/O	Input	Irradiation ON/OFF (Response time: 20 ms), Data bank switching, Interlock
		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			AC100 to 240V 50/60Hz (AC adapter included)
Power consumption			25 W max.
Cooling method			Natural air cooling (Without fans)
Vibration resistance			10 to 150 Hz, Acceleration: 50 m/s <sup>2</sup> , 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)
Material	Steel plate
Weight	750 g (Excluding the AC adapter and irradiation heads)
Accessories	AC adapter, Foot switch, Mounting bracket, Protection glasses, Manual
CE marking	Safety standard: Conforms to EN60950-1 EMC standard: Conforms to EN55032, EN61000-3-2, EN61000-3-3, EN55024 Environmental regulations: RoHS compliant

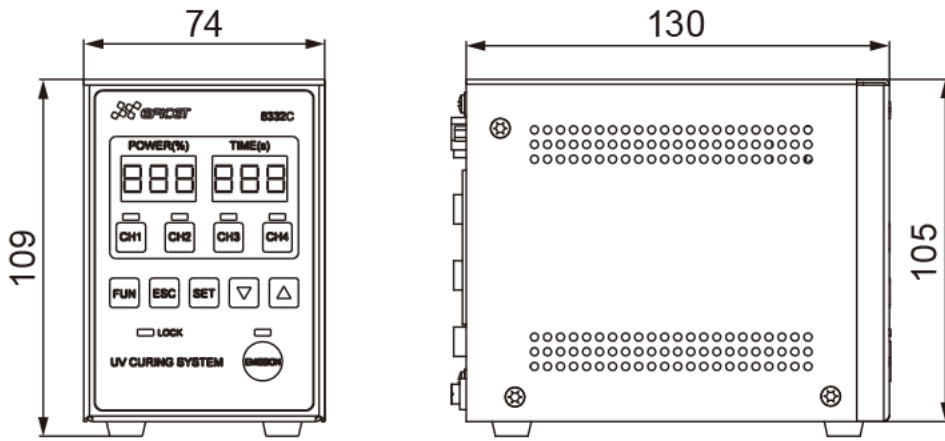
#### Irradiation heads

Model	AC8375 (Standard head)	AC8366 (Small Head)* <sup>1</sup>
Wavelength	280nm, 365nm, 385nm, 405nm	365nm, 385nm, 405nm
Allowable Cable Bending Radius	30 mm	
Materials	Copper, Aluminum alloy, Glass	
Weight	150 g (Excluding the mounting bracket)	

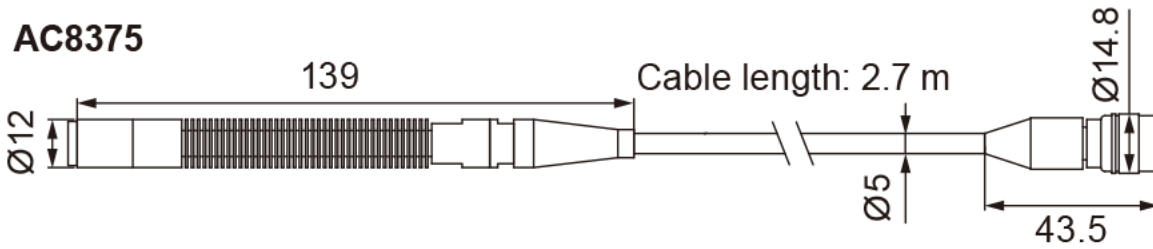
\*1 When you install the small head, use the mounting bracket that comes with the product.

## ● Outer Dimensions (mm)

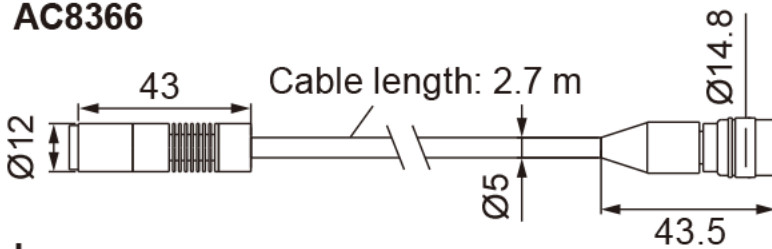
8332C



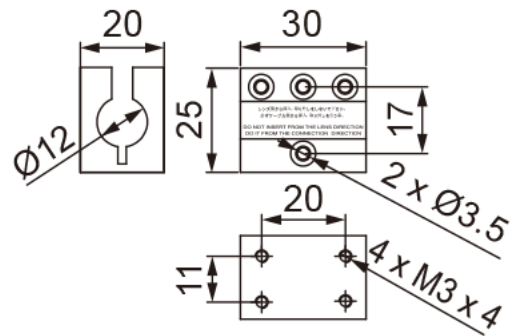
AC8375



AC8366



Heatsinking (Accessory)



Lens



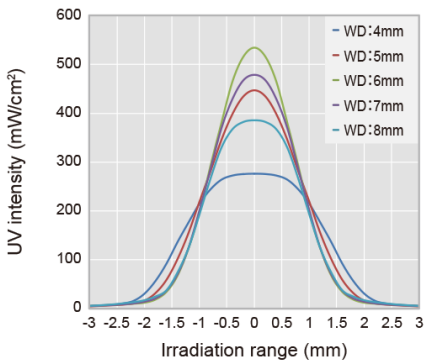
● UV Intensity Profile (Examples)

[Spotlight Lens](#) [Line-Type Lens](#)

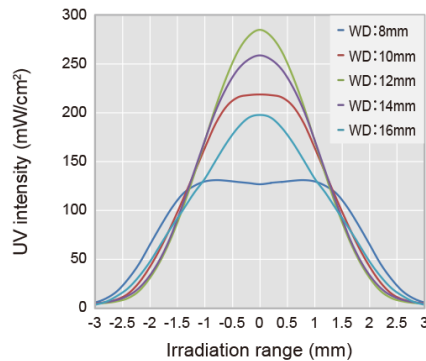
Spotlight Lens

For 280nm Spot lens

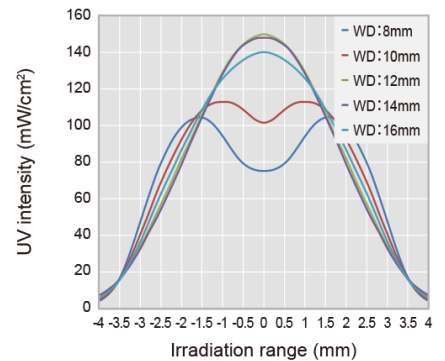
AC8303M ( Ø3 mm )



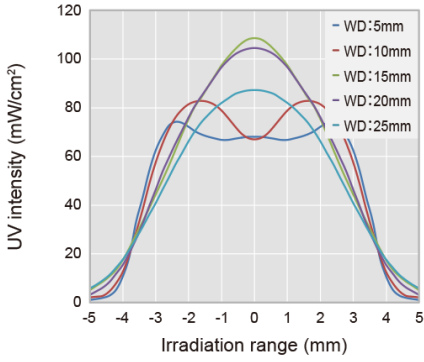
AC8304M ( Ø4 mm )



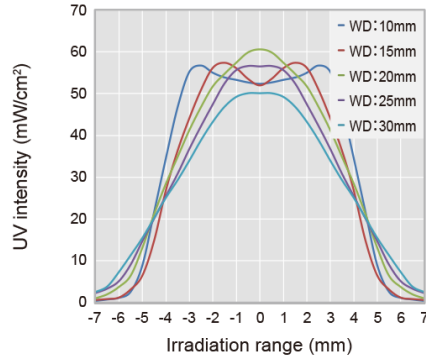
AC8306M ( Ø6 mm )



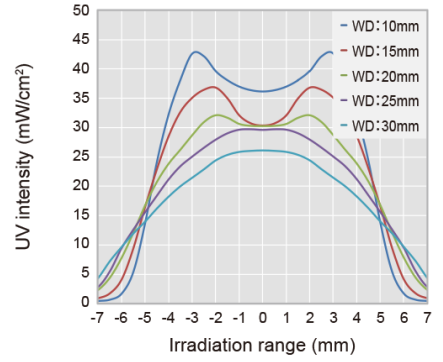
AC8308M ( Ø8 mm )



AC8310M ( Ø10 mm )

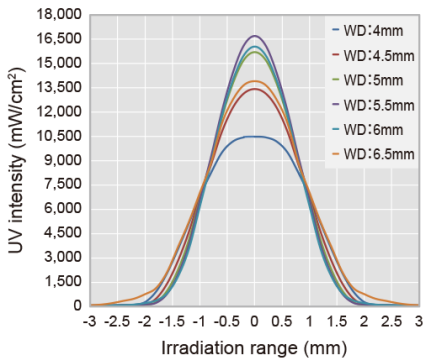


AC8310M ( Ø12 mm )

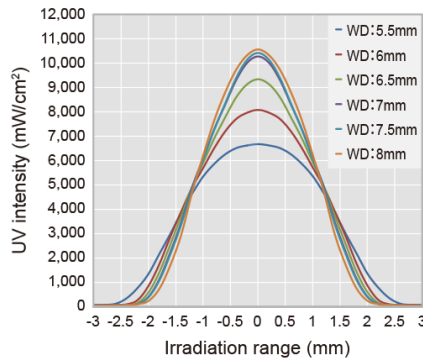


For 365 / 385 / 405nm Spot lens\*3

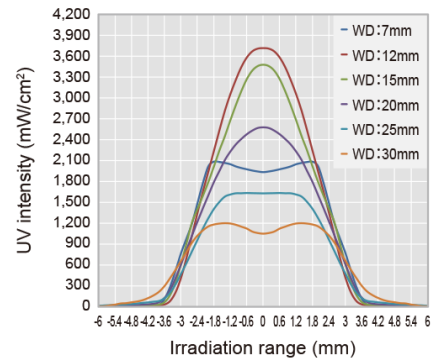
AC8303C ( Ø3 mm )



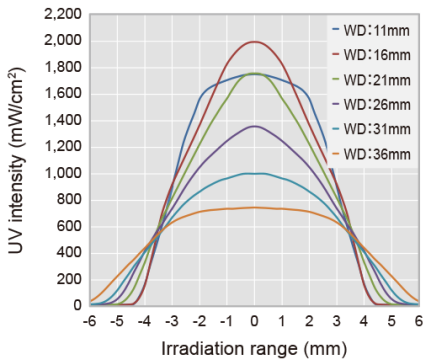
AC8304C ( Ø4 mm )



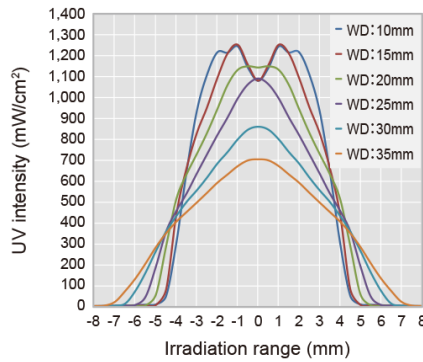
AC8306C ( Ø6 mm )



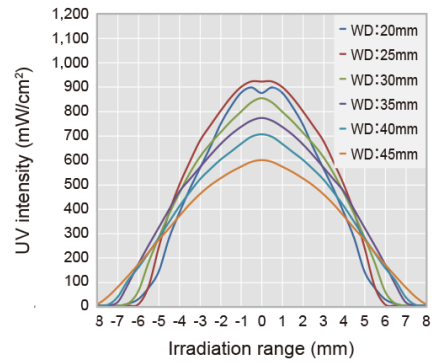
AC8308C ( Ø8 mm )



AC8310C ( Ø10 mm )



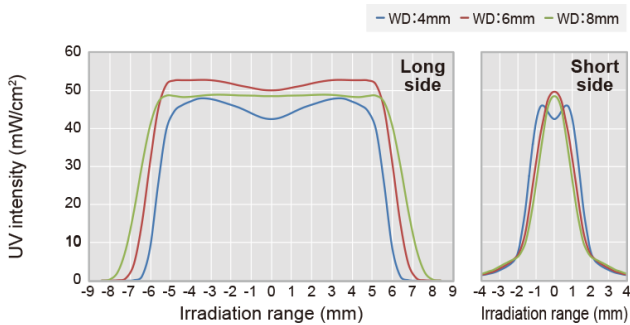
AC8312C ( Ø12 mm )



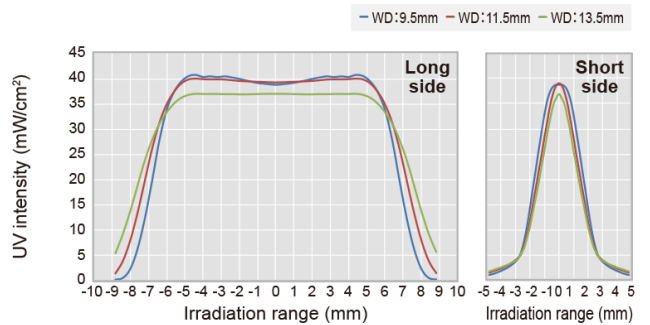
## Line-Type Lens

For 280nm Line lens

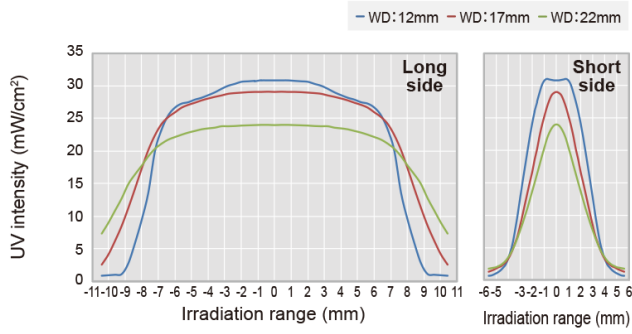
AC8341M ( 3 mm × 12 mm )



AC8342M ( 5 mm × 16 mm )

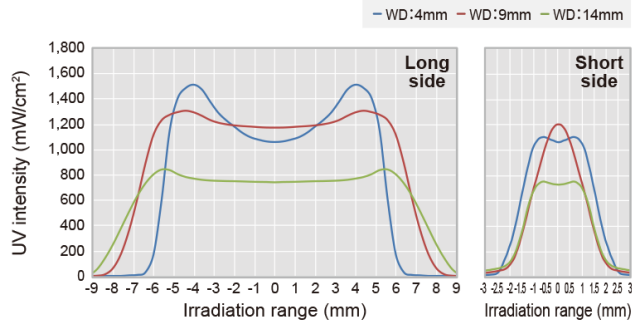


### AC8343M ( 5 mm × 20 mm )

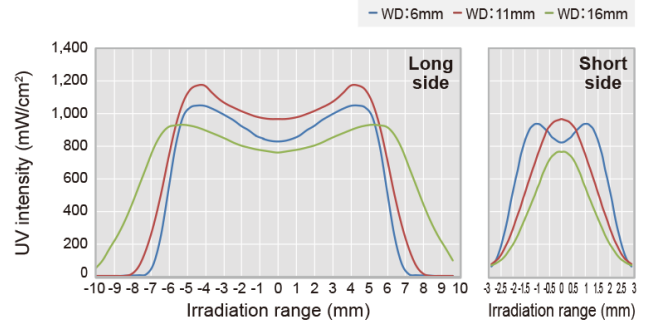


### For 365 / 385 / 405nm Line lens\*3

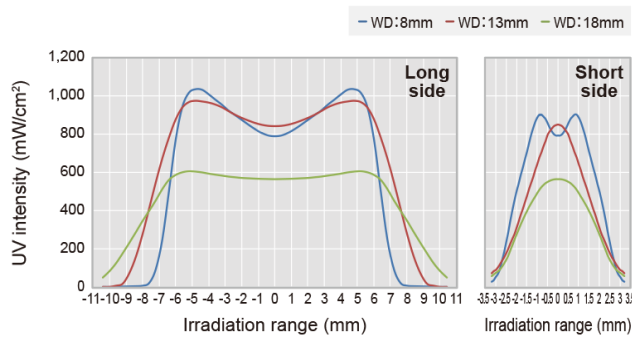
#### AC8341C ( 3 mm × 12 mm )



#### AC8342C ( 4 mm × 12 mm )



#### AC8343C ( 5 mm × 16 mm )



\* 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.)

\*3 UV Intensity Profile is measured at 365nm with low-level radiant flux.

We hereby inform you that we will discontinue 8332A Series, effective 31 December 2022.

The warranty conditions for this product differ from those for CCS manufactured products.  
For more details please contact a CCS sales representative.