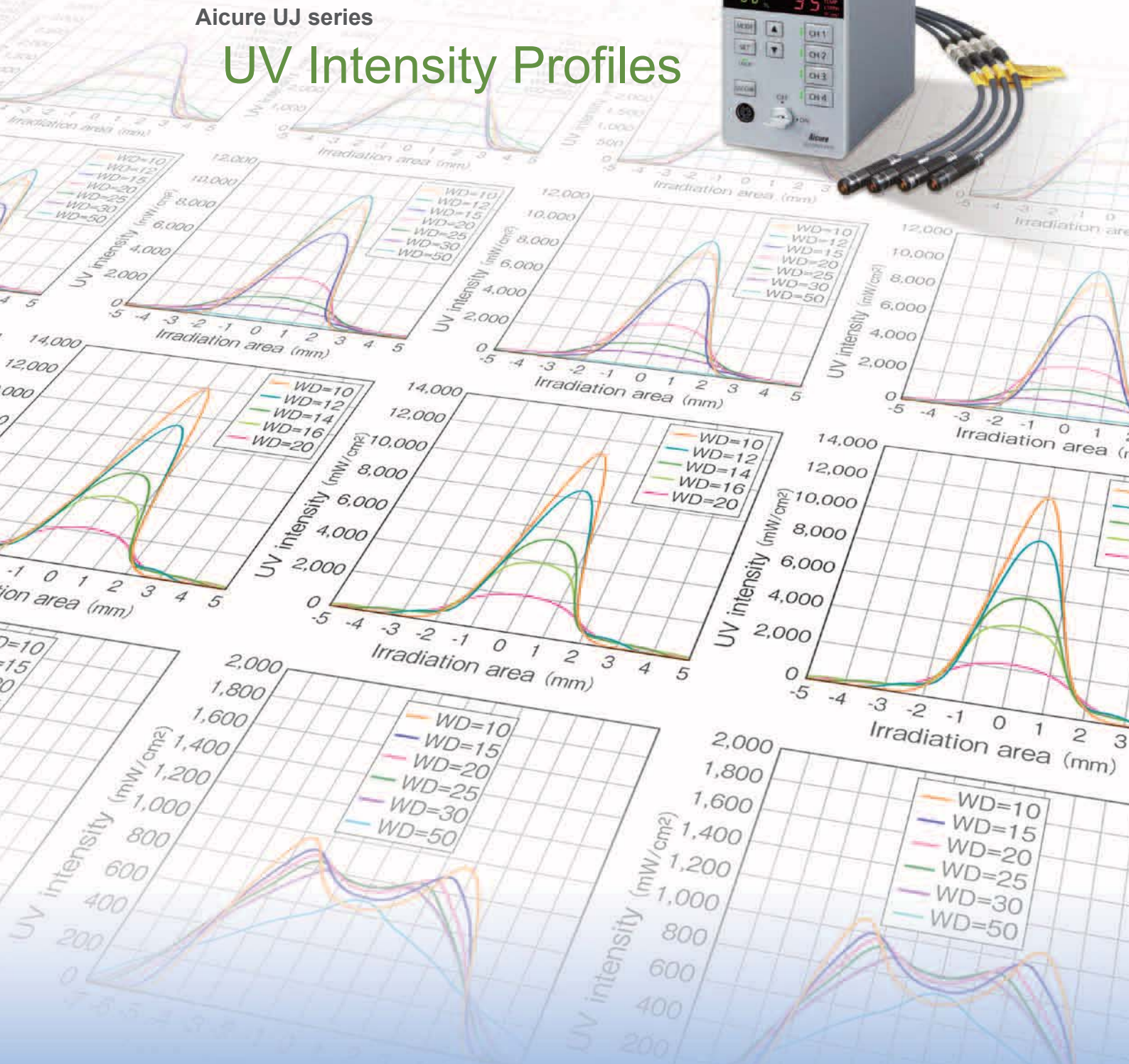


Aicure UJ series

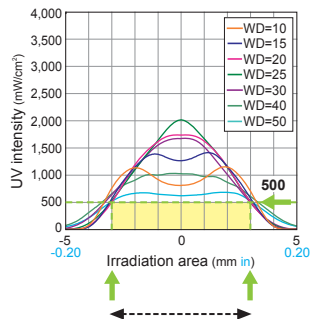
## UV Intensity Profiles



## How To Read UV Intensity Data

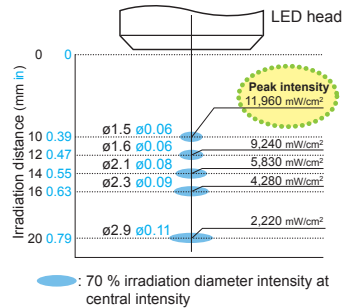
### Irradiation distance vs intensity and area

If an intensity of 500 mW/cm<sup>2</sup> or higher and irradiation area of ø6 mm ø0.24 in are required, draw a line on the graph that covers the ±3 mm ±0.12 in and 500 mW/cm<sup>2</sup> positions. This determines the lens that will satisfy the area this line surrounds and the irradiation distance (WD). In this case, we can see that the ANUJ6428 (standard lens ø8 mm ø0.31 in) can maintain an intensity of 500 mW/cm<sup>2</sup> or higher with an irradiation distance of 50 mm 1.97 in and area of ø6 mm ø0.24 in.



### Irradiation intensity vs head and distance

When high intensity head and standard lens (ø3 mm ø0.12 in ANUJ6423) are used in combination, the peak intensity in the center position at an irradiation distance of 10 mm 0.39 in is 11,960 mW/cm<sup>2</sup>. A ø1.5 mm ø0.06 in irradiation area can be irradiated at 70 % (8,372 mW/cm<sup>2</sup>) of the center intensity.

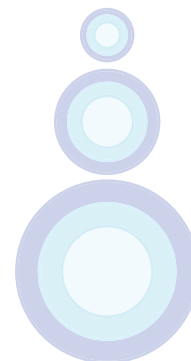
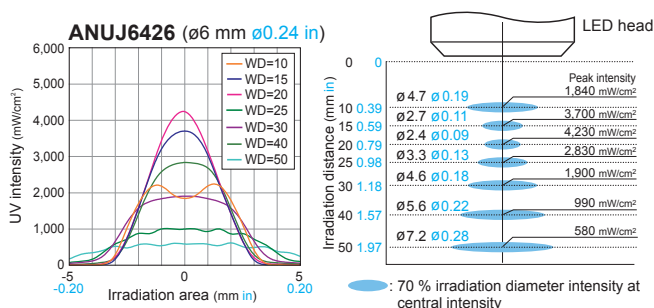
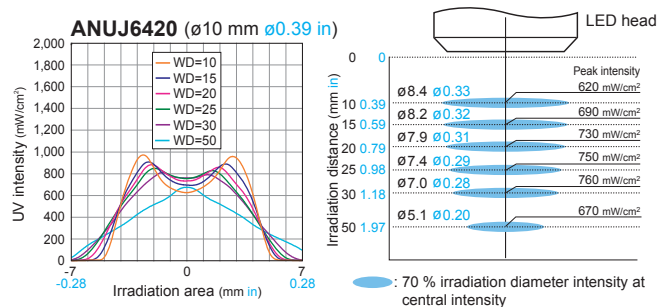
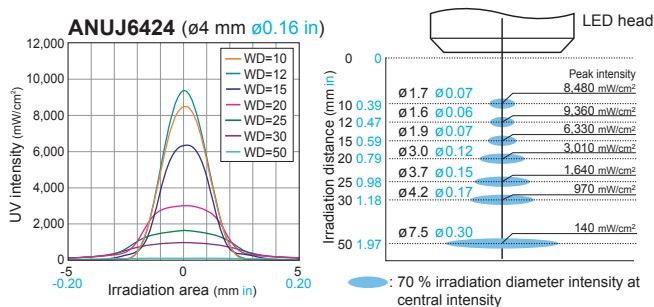
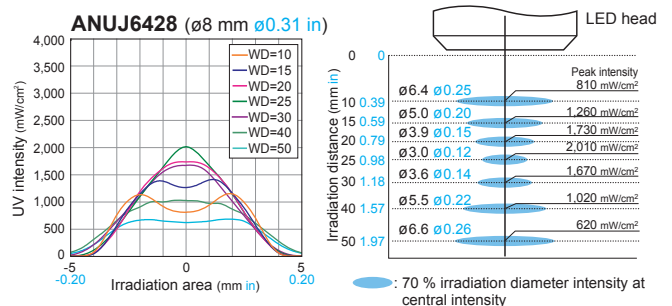
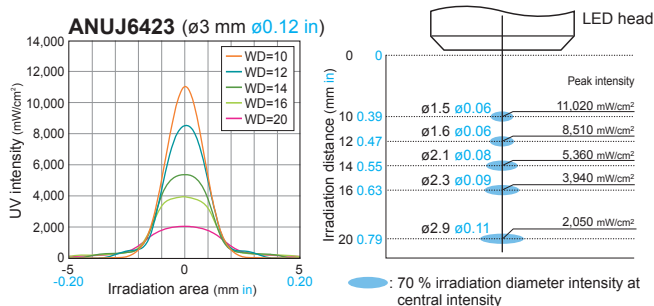


When being fixed to the metal attachment, the ambient temperature is 25 °C 77 °F, and the intensity is set to 100 % (initial value). Not a guaranteed value.

## STANDARD HEAD

ANUJ6172 ANUJ6173

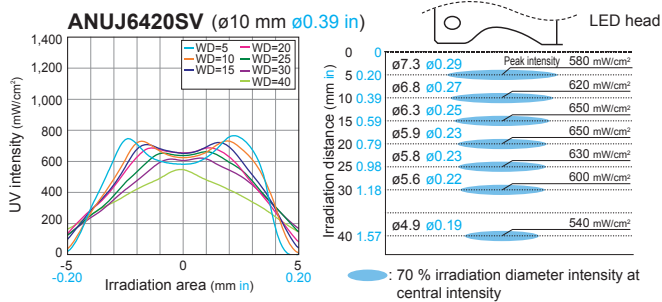
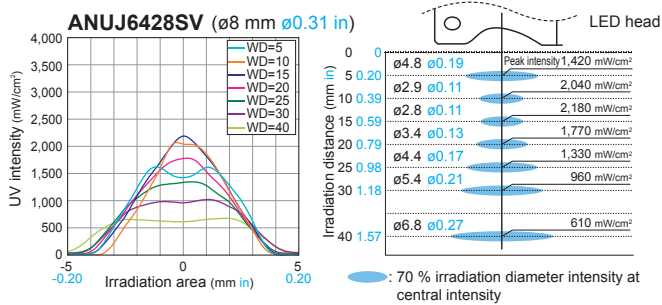
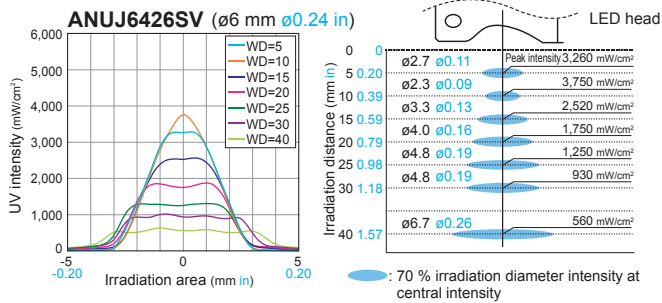
### Standard lens data (Typical characteristics)



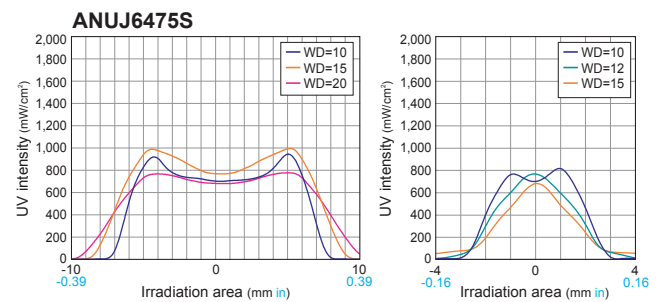
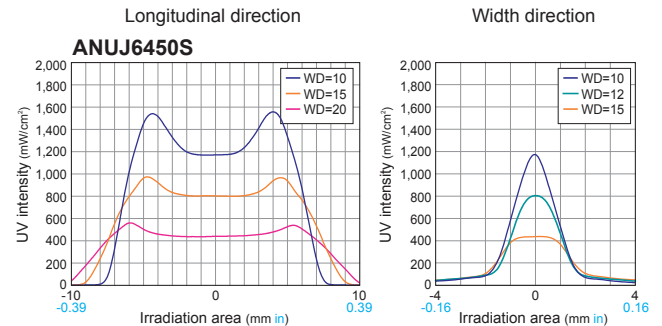
## STANDARD HEAD

ANUJ6172 ANUJ6173

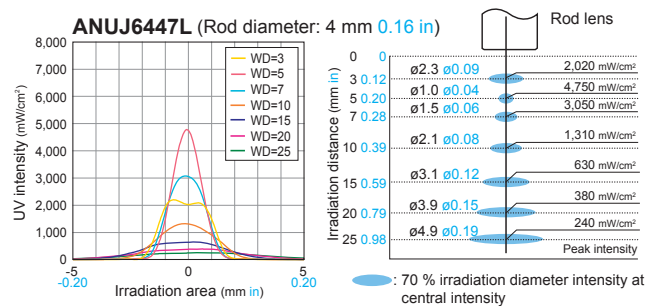
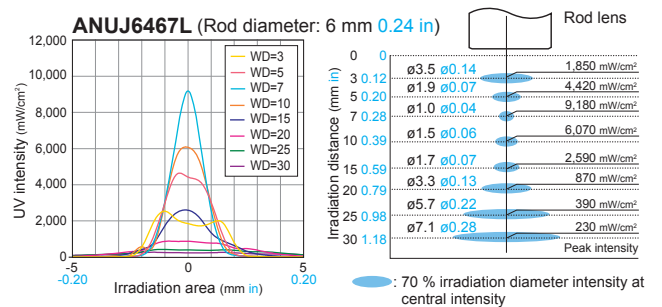
## Side view lens data (Typical characteristics)



## Cylindrical lens data (Typical characteristics)



## Rod lens data (Typical characteristics)

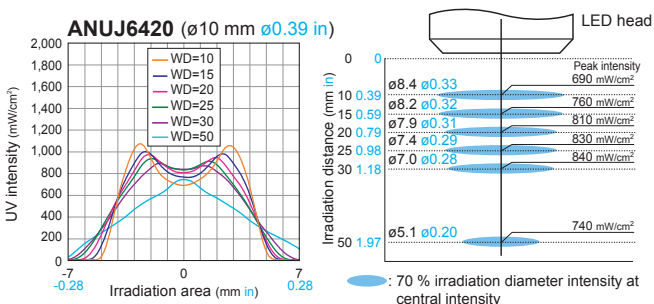
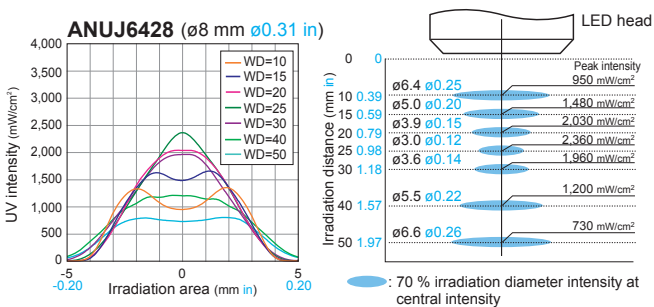
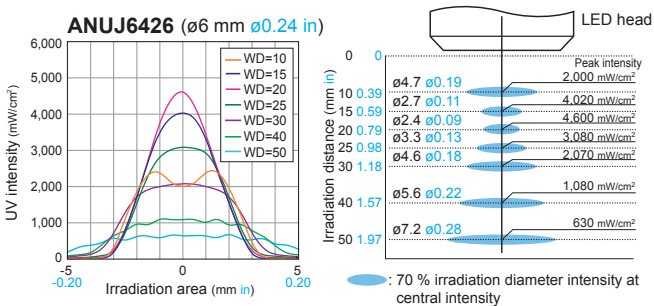
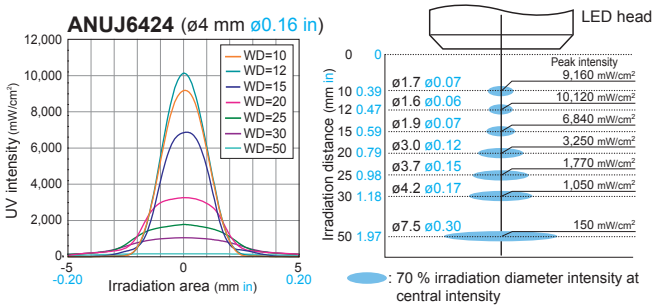
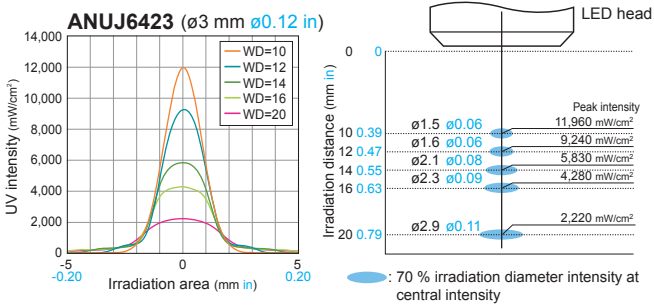




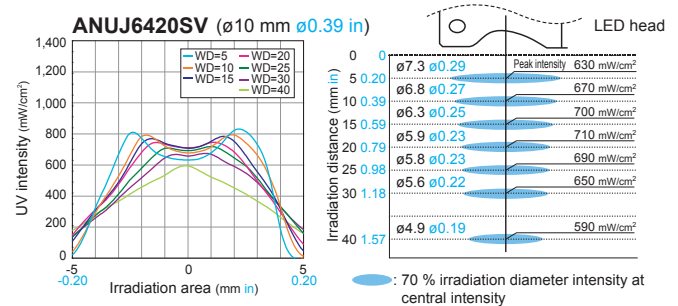
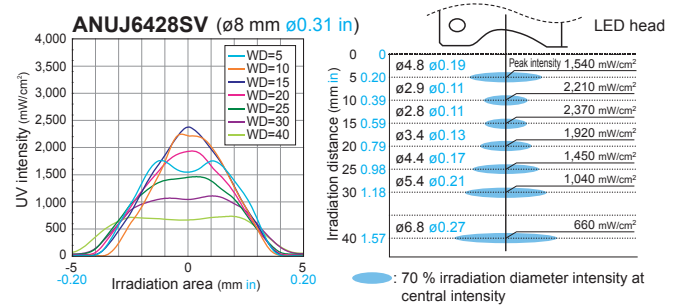
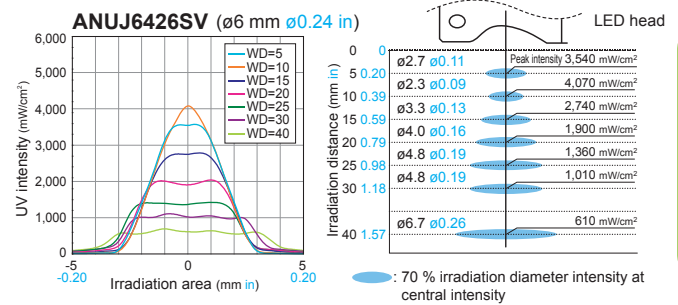
# HIGH INTENSITY HEAD

**ANUJ6170 ANUJ6171**

## Standard lens data (Typical characteristics)

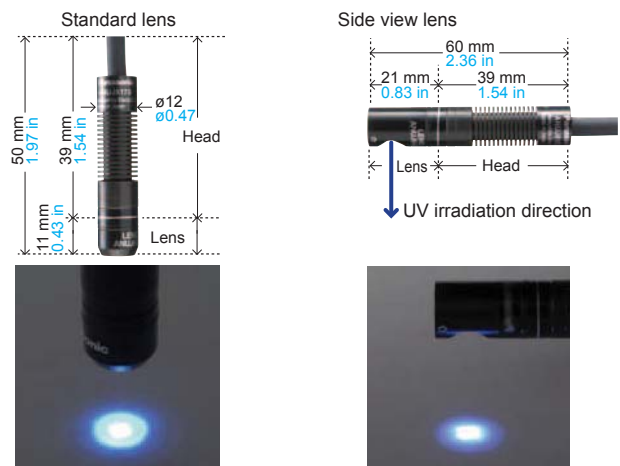


## Side view lens data (Typical characteristics)



## Standard lens / Side view lens

(Circular irradiation) (Circular irradiation, Angled at 90°)

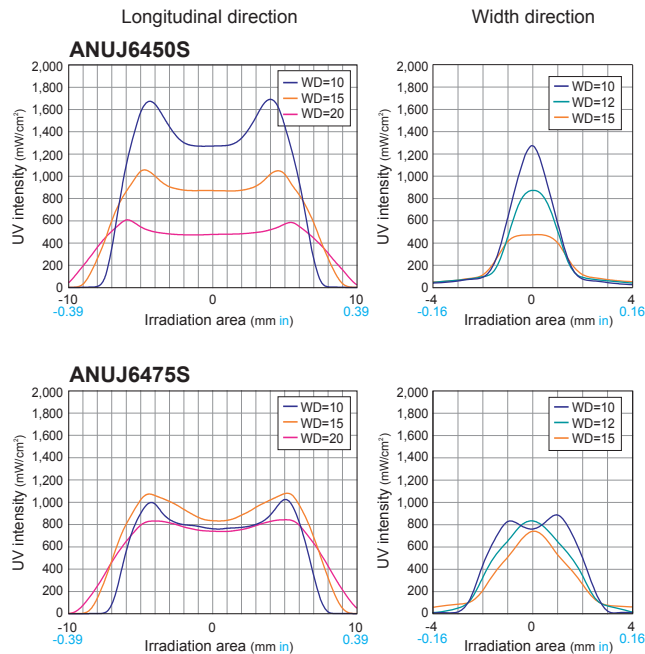


The side view lens bends the light path at 90°, broadening the choice of head installation locations.

## HIGH INTENSITY HEAD

ANUJ6170 ANUJ6171

## Cylindrical lens data (Typical characteristics)



## Cylindrical lens (Elliptical irradiation)



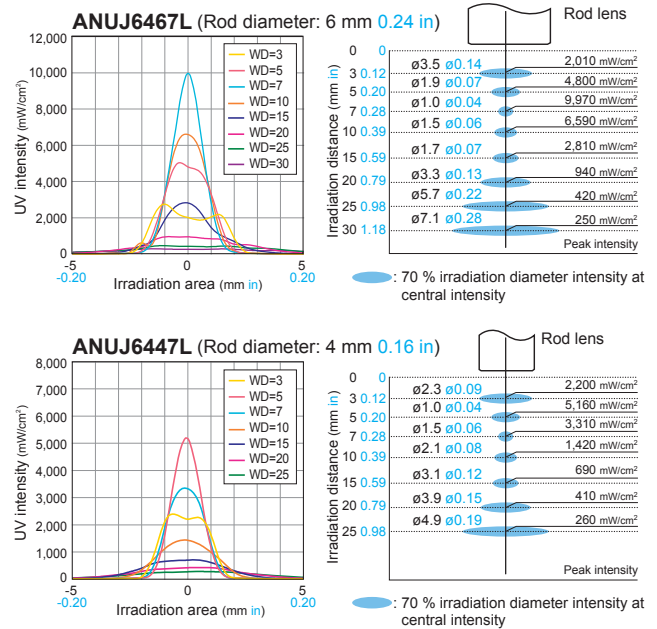
Cylindrical lens



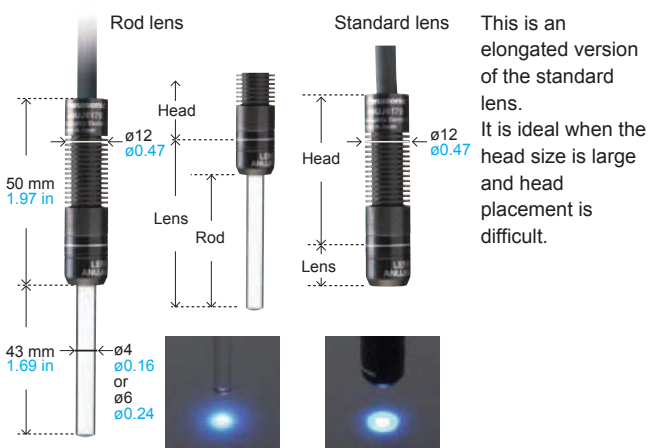
Standard lens

An oval-shaped irradiation area results from a cylindrical lens. Using the directionality of the irradiation area, you can do things such as irradiate wide areas simultaneously or reduce the number of heads by crossing the irradiation area.

## Rod lens data (Typical characteristics)

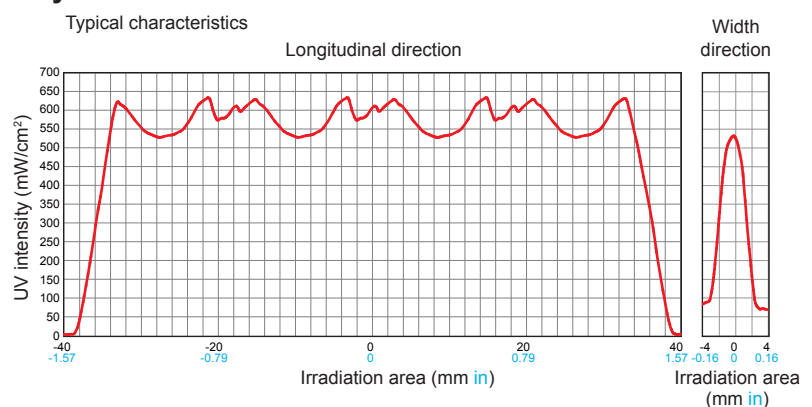
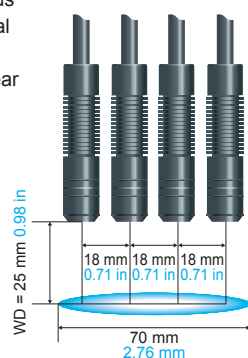


## Rod lens (Small diameter lens, Circular irradiation)



## Linear area irradiation by a combination of cylindrical lenses

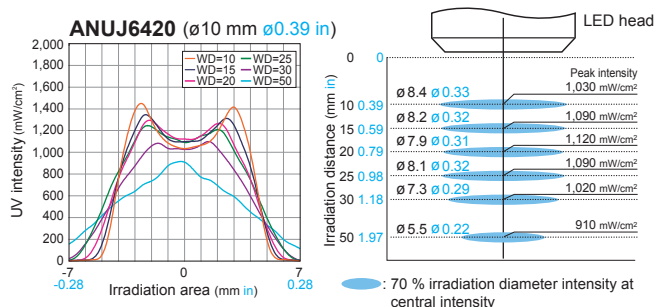
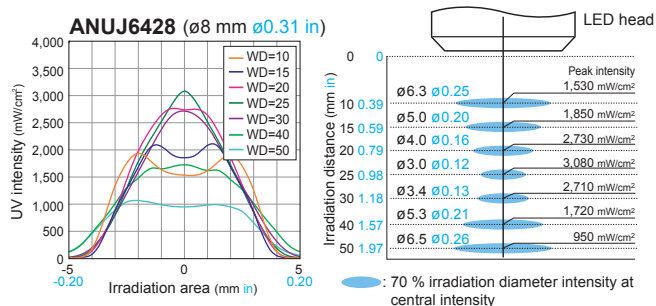
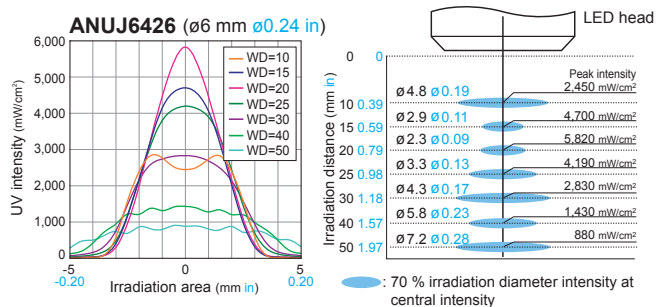
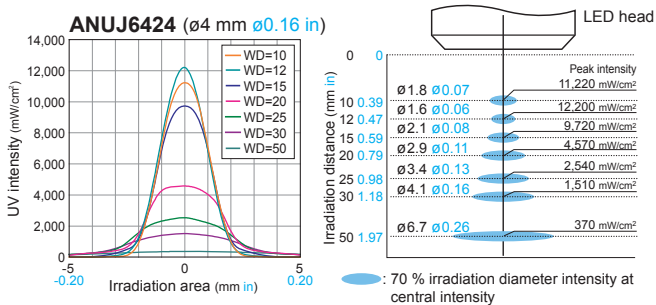
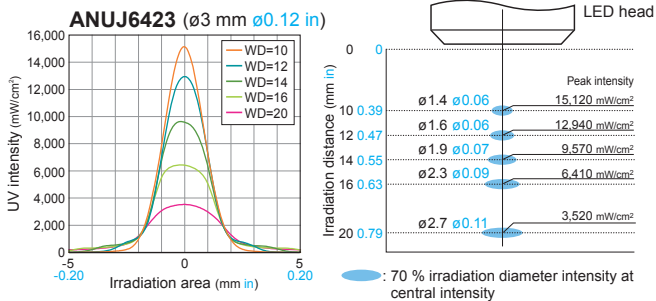
When ANUJ6170 high intensity heads equipped with ANUJ6475S cylindrical lens are used with 18 mm 0.71 in pitches as shown in the figure, a linear area of approx. 70 mm 2.76 in wide can be reliably irradiated with UV at 500 mW/cm² or higher intensity.



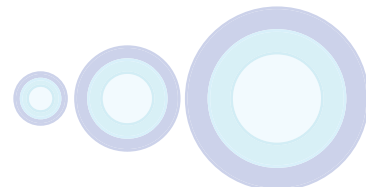
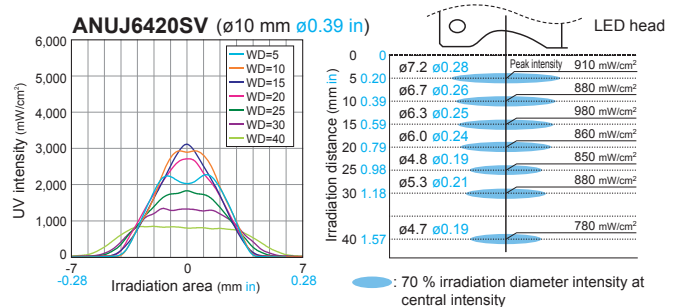
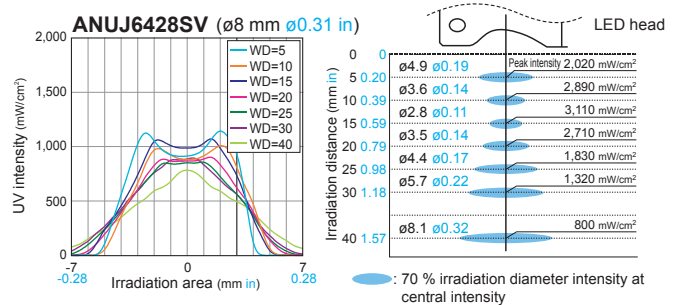
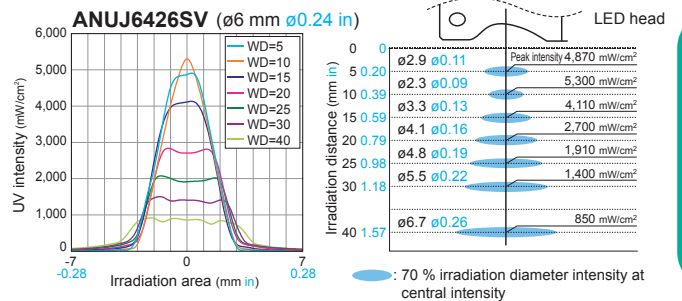
## 385 nm WAVELENGTH HEAD

ANUJ6174 ANUJ6175

## Standard lens data (Typical characteristics)



## Side view lens data (Typical characteristics)

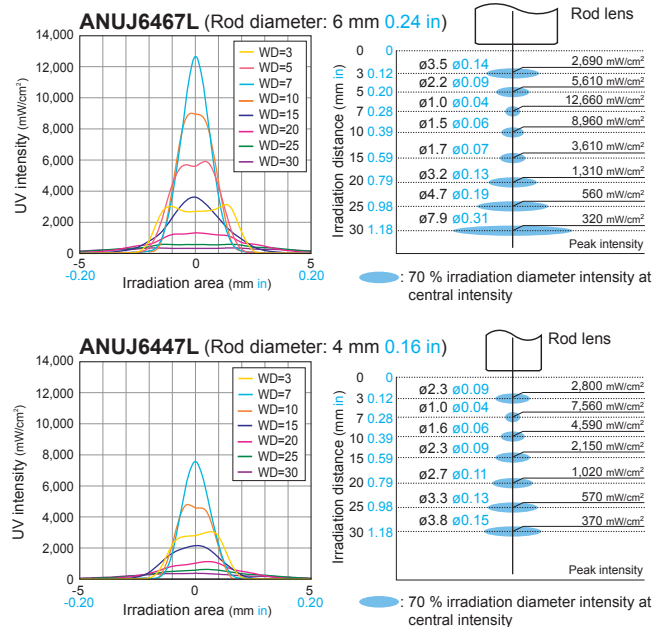
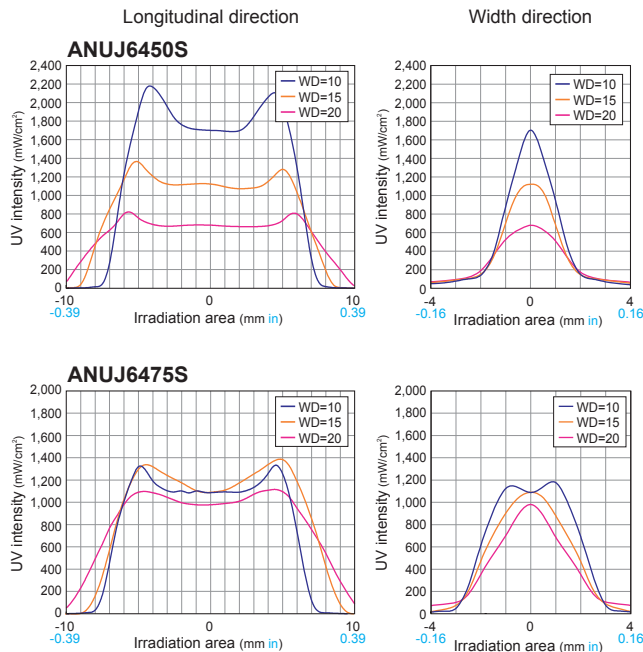


## 385 nm WAVELENGTH HEAD

ANUJ6174 ANUJ6175

## Cylindrical lens data (Typical characteristics)

## Rod lens data (Typical characteristics)



A 365 nm wavelength type (standard and high intensity) and a 385 nm wavelength type are available, with a head length of 50 mm 1.97 in or 120 mm 4.72 in.

Directly connectable to the controller without a connection cable

Standard head: 365 nm wavelength

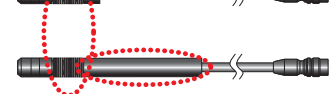
•Irradiation intensity: 9,300 mW/cm<sup>2</sup>



Head lengths selectable according to the installation location conditions

When a standard lens is attached, the head is the shortest (50 mm 1.97 in) in its class. Further, the radiation fins provide adequate cooling performance.

The heat generating section has radiation fins, which provide high cooling efficiency.



The long head design further improves radiation effect and thereby enhances UV irradiation stability.

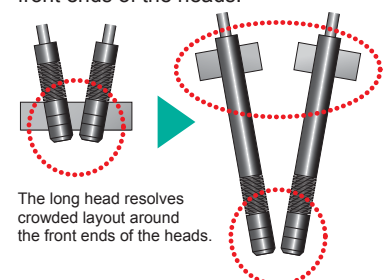
For higher irradiation power or shorter cycle time

High intensity head: 365 nm wavelength

•Irradiation intensity: 10,100 mW/cm<sup>2</sup>



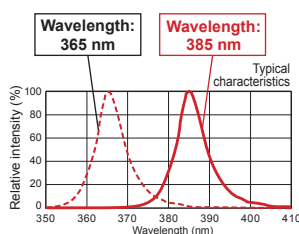
The 120 mm 4.72 in long head has higher heat radiation performance. Since this type can be fixed by its rear part, other equipment can be easily added without crowding around the front ends of the heads.



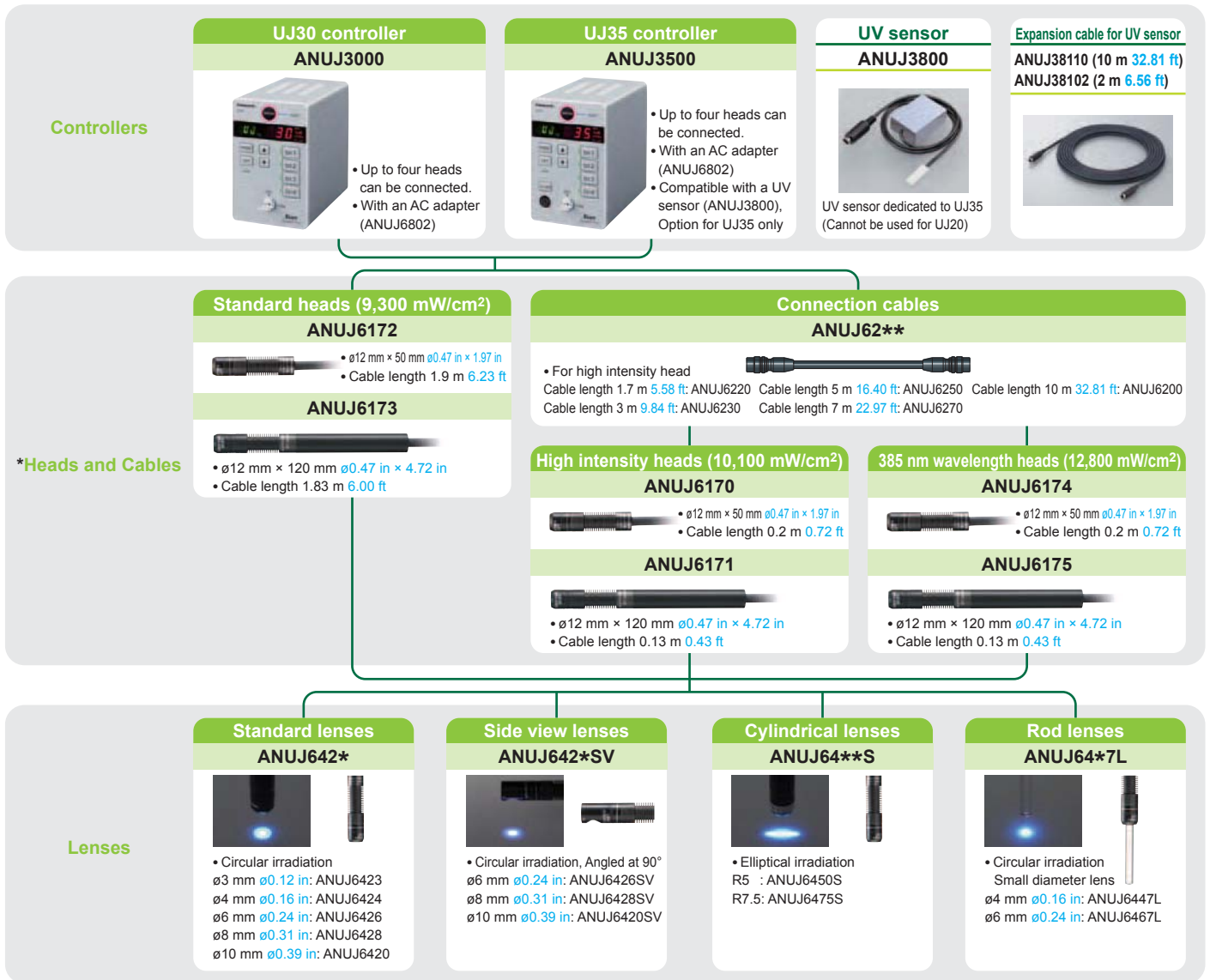
For curing deeper points of resin or curing resin through a film

385 nm wavelength head

•Irradiation intensity: 12,800 mW/cm<sup>2</sup>



# PRODUCT LINEUP



\* The lens is not supplied with the head.

Please contact .....

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