

UVC Purification Lighting


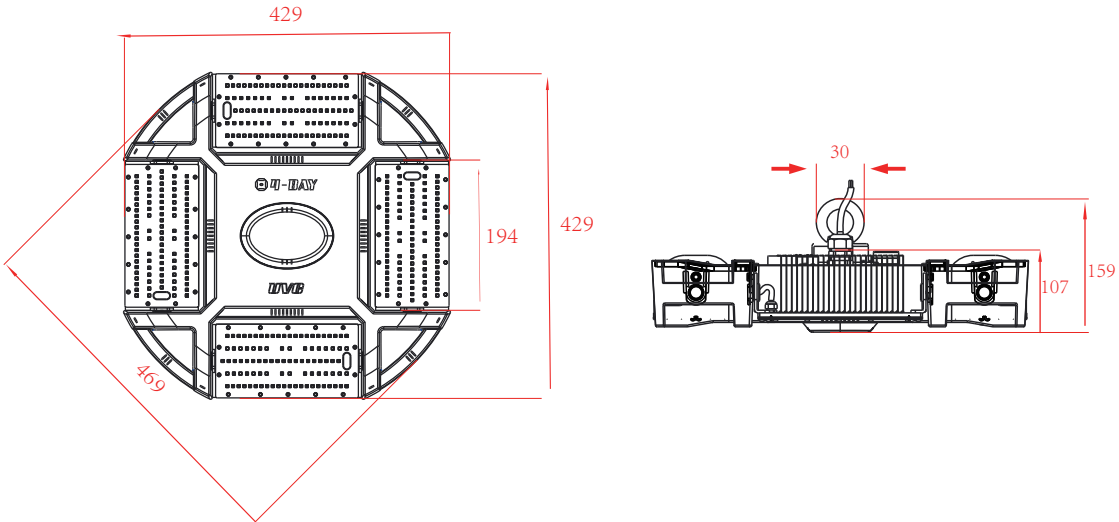
Purification UVC lights with motion sensor & on/off timer, available in 50W to 200W models

UVC Purification Lights disinfect rooms without the need for cleaning products or chemicals. The purification light emits short-wave UVC radiation that effectively kills pathogens with an up to 100% success rate, killing bacteria and germs including MRSA, salmonella, E.coli, Covid-19 and more.

All models feature an alarm and motion sensor technology that will deactivate the UVC light if motion is detected, plus -T models feature a timer function for UVC light scheduling. These UVC lights are ideal for disinfecting offices, schools, hospitals, nursing homes, warehouses, factories and more (during non-operational / working hours).

- Kill pathogens without the use of chemicals, UVC light can disinfect and purify rooms against bacteria & germs
 - On-board safety with motion sensor and warning alarm
 - On-board scheduling with timer function (-T models only)
 - UVC light can remove organic/ inorganic chemicals such as chlorine, ozone, total organic carbon & more
 - Lab tested by SGS with verified kill rates up to 100%
- * Exposure to UVC is hazardous to health. Installation should be performed by qualified professionals only.*

Series Specifications

Model	UVC-A50	UVC-A50-T	UVC-A100	UVC-A100-T	UVC-A150	UVC-A150-T	UVC-A200	UVC-A200-T
Product Image								
Series Name	UVC Purification Lights							
General								
Radiation Type	Ultra-Violet Radiation C (UVC), 200 ~ 280nm spectral wavelength							
Motion Sensor	Yes							
Timer	No	Yes	No	Yes	No	Yes	No	Yes
Alarm	Yes							
Electrical								
Power Consumption	50W		100W		150W		200W	
Rated Voltage	100 ~ 240VAC, 50/60Hz							
Power Factor	>0.95							
Driver	Meanwell							
General								
Ingress Protection	N/A							
Rec. Install Height	4m							
Housing Adjustments	4 x 200° adjustable UVC light modules							
Heat Sink	Aluminium cooling fan							
Operating Temperature	-40°C ~ 40°C							
Dimensions	429 x 429 x 159mm							
Certifications	N/A							
Product Dimensions								

Ordering Information

Type	Series	Wattage	Scheduling
UVC	-	50 (50W) 100 (100W) 150 (150W) 200 (200W)	-
	A		T Timer

UVC-A50-T: 50W UVC Purification Light with Timer

Room Disinfection Rates

The efficacy of UVC lights in disinfecting rooms is dependant on **UVC wattage, install height, room dimensions** and **active time**. The disinfection is more effective the closer the surface is to the light - therefore, it's recommended that UVC lights installed in the centre of the room.

Refer to the tables on the right to see disinfection rates for different light models, room dimensions and run times, to determine which model is most suitable for your install application. Higher wattage UVC light models are more suited for larger rooms.

Example 1:

Light model: 50W UVC (UVC-A50)

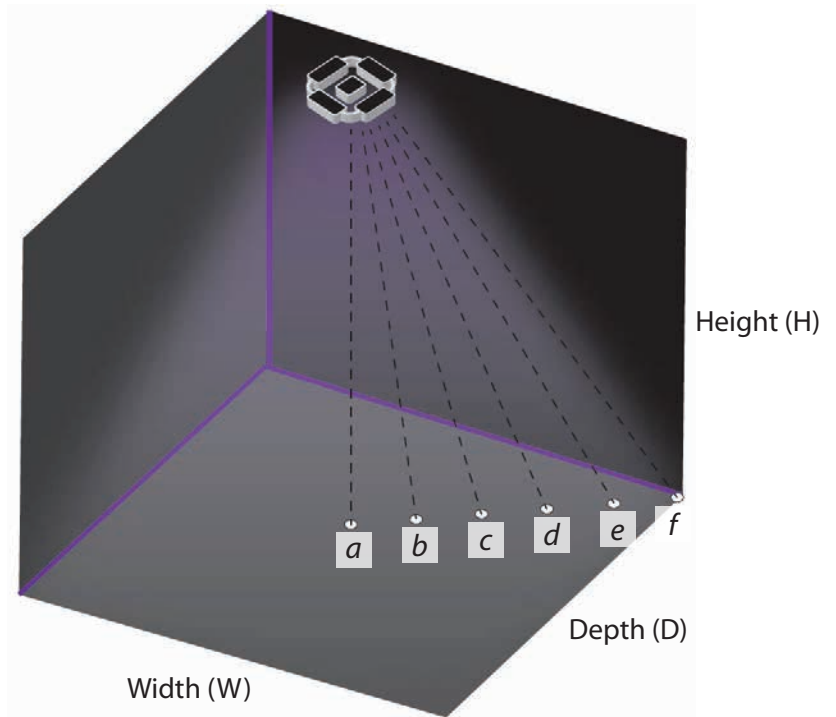
Room size: 4m x 4m

Light install height: 4m

Run time: 60 minutes

Run Time	60 min.
a (0, 0)	94.9881%
b (40, -40)	96.0189%
c (80, -80)	94.9881%
d (120, -120)	92.0567%
e (160, -160)	87.4107%
f (200, -200)	80.0474%

Under these circumstances, the surface directly under the light (a) will have a disinfection rate of ~95%, while the surfaces in the corners of the room (f) will have a disinfection rate of ~80%.



Example 2:

Light model: 50W UVC (UVC-A50)

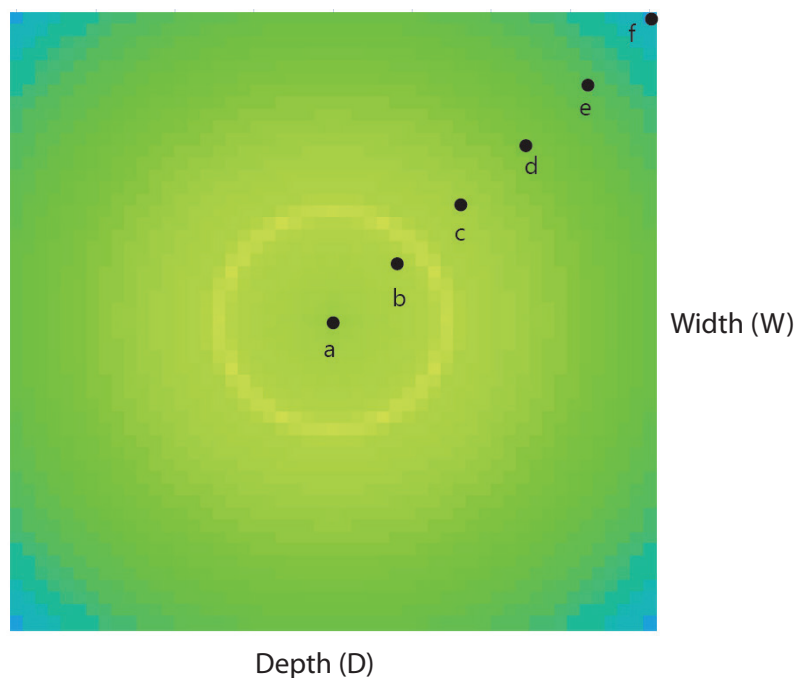
Room size: 4m x 4m

Light install height: 4m

Run time: 120 minutes

Run Time	120 min.
a (0, 0)	99.7488%
b (40, -40)	99.8005%
c (80, -80)	99.7488%
d (120, -120)	99.4988%
e (160, -160)	98.4151%
f (200, -200)	96.0189%

Under identical circumstances, by doubling the light's active time to 120 minutes, the surface directly under the light (a) now have a disinfection rate of almost 100%, while the surfaces in the corners of the room (f) have gone up to ~96%.



UVC 50W Model

Room Dimensions: 4m x 4m
Install Height: 4m

Run Time	30 min.	60 min.	120 min.
a (0, 0)	74.8811%	94.9881%	99.7488%
b (40, -40)	80.0474%	96.0189%	99.8005%
c (80, -80)	80.0474%	94.9881%	99.7488%
d (120, -120)	74.8811%	92.0567%	99.4988%
e (160, -160)	68.3772%	87.4107%	98.4151%
f (200, -200)	49.8813%	80.0474%	96.0189%

Room Dimensions: 9m x 9m
Install Height: 4m

Run Time	60 min.	120 min.	180 min.
a (0, 0)	94.9881%	99.7488%	99.9874%
b (90, -90)	94.9881%	99.7488%	99.9842%
c (180, -180)	84.1511%	97.4881%	99.6019%
d (270, -270)	60.1893%	80.0474%	92.0567%
e (360, -360)	36.9043%	60.1893%	74.8811%
f (450, -450)	20.5672%	36.9043%	49.8813%

UVC 100W Model

Room Dimensions: 5m x 5m
Install Height: 4m

Run Time	30 min.	60 min.	120 min.
a (0, 0)	94.9881%	99.7488%	99.7488%
b (50, -50)	96.8377%	99.9000%	99.8005%
c (100, -100)	93.6904%	99.6838%	99.7488%
d (150, -150)	90.0000%	98.7411%	99.4988%
e (200, -200)	80.0474%	96.0189%	98.4151%
f (250, -250)	68.3772%	87.4107%	96.0189%

Room Dimensions: 11m x 11m
Install Height: 4m

Run Time	60 min.	120 min.	180 min.
a (0, 0)	99.7488%	99.9992%	100%
b (110, -110)	99.6019%	99.9984%	100%
c (220, -220)	92.0567%	99.3690%	99.9602%
d (330, -330)	60.1893%	87.4107%	94.9881%
e (440, -440)	36.9043%	60.1893%	74.8811%
f (550, -550)	20.5672%	36.9043%	36.9043%

UVC 150W Model

Room Dimensions: 6m x 6m
Install Height: 4m

Run Time	30 min.	60 min.	120 min.
a (0, 0)	98.7411%	99.9874%	100%
b (60, -60)	99.0000%	99.9921%	100%
c (120, -120)	98.0047%	99.9602%	100%
d (180, -180)	93.6904%	99.6019%	99.9980%
e (240, -240)	84.1511%	96.8377%	99.9000%
f (300, -300)	60.1893%	87.4107%	98.0047%

Room Dimensions: 12m x 12m
Install Height: 4m

Run Time	60 min.	120 min.	180 min.
a (0, 0)	99.9874%	100%	100%
b (120, -120)	99.9602%	100%	100%
c (240, -240)	96.8377%	99.9000%	99.9968%
d (360, -360)	74.8811%	93.6904%	98.0047%
e (480, -480)	36.9043%	60.1893%	80.0474%
f (600, -600)	20.5672%	36.9043%	49.8813%