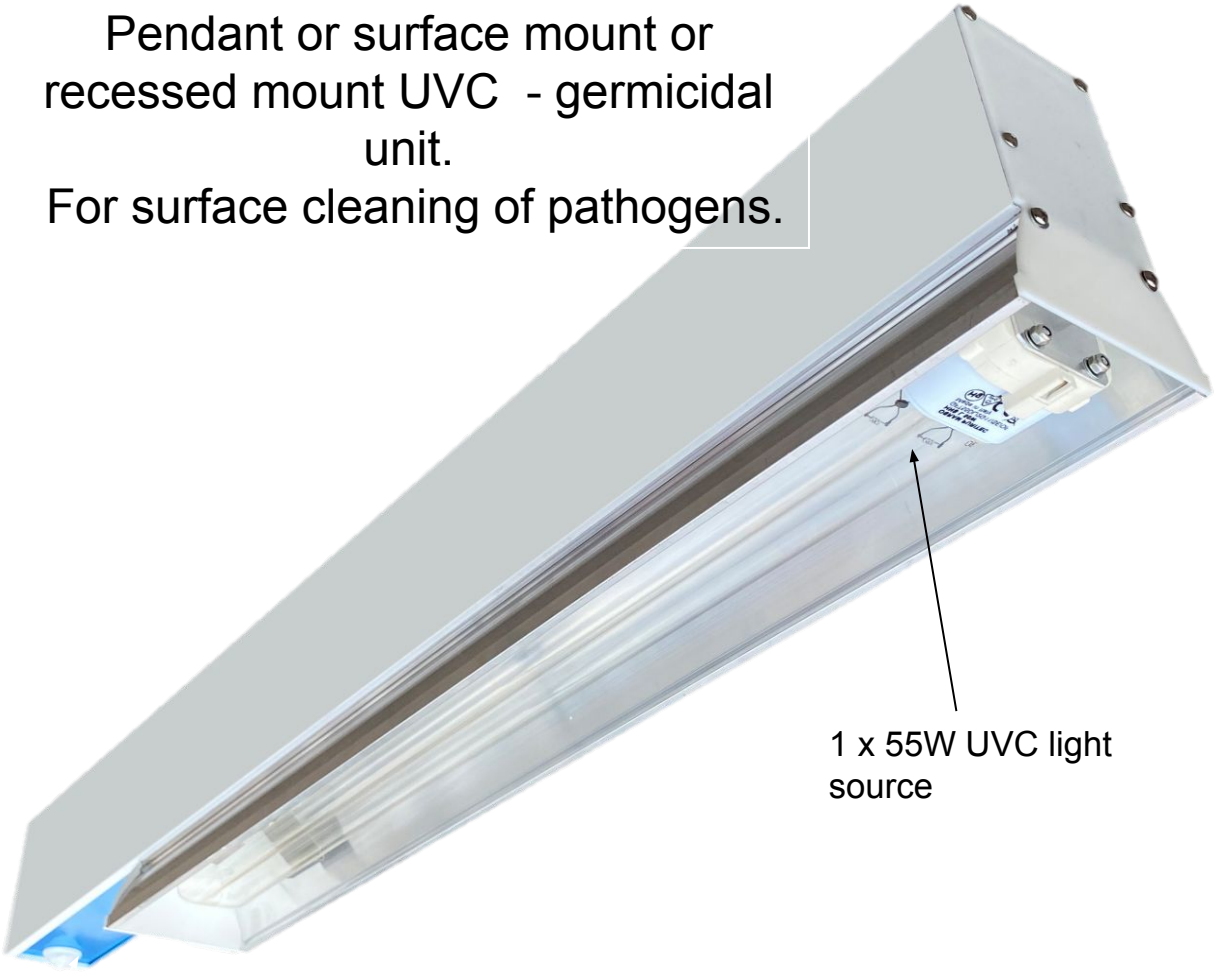
Jaeger 1 (hunter) – UVG surface cleaner

Pendant or surface mount or recessed mount UVC - germicidal unit.
For surface cleaning of pathogens.



A PIR motion sensor is standard - as soon as a living body is detected – the entire fitting switches off – till no further motion is detected – then switches back on.

Rear view

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General Information	
Body Construction	Main Body - extruded aluminium – anodised and powder coated.
Sensor Type	PIR sensor – feeding a relay – mounting height not to exceed 5 metres
UVC Lamp Type	UVC 55W – in PL or Dulux shape. Wavelength is 254nm
Recommended Height Installation	Depends on how quickly the subject is to be sterilised.
Compliance	SANS 60598
IP Rating	IP 20
Control Type	Internal power supply
Dimmable	No
Electrical Information	
Electrical Class	Class 1
Socket Options	N/A
Supply Voltage	230V AC 50HZ
Surge Protection	Dependant on internal power supply – usually 2kV
Power Factor	better than 0,97
Power Supply for Lamps	Tridonic or Helvar or TCI – electronic.
Optical Information	
CRI	N/A
Wavelength	254nm
Performance	
Total Circuit load and Lumens	60W 32W of 254nm (UVC Effective Wattage when New)
Effective Lamp Life	8000 hours. An hour meter can be added – to enable maintenance staff to accurately monitor the lamp life.
Operating Conditions	
Operating Temperature range	-20ºC to +45ºC
DImensions and Mounting	
Weight	4kg
Installation Data	Available

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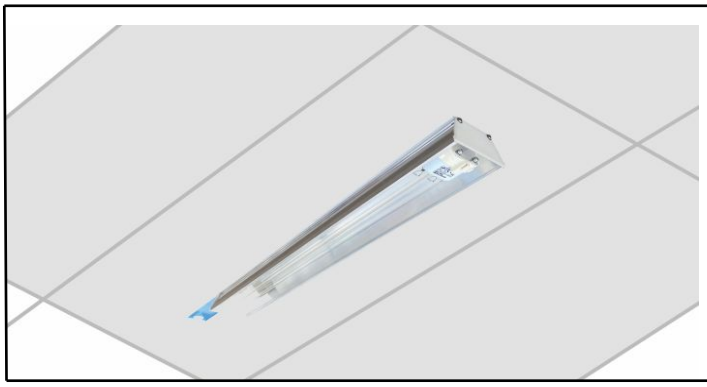
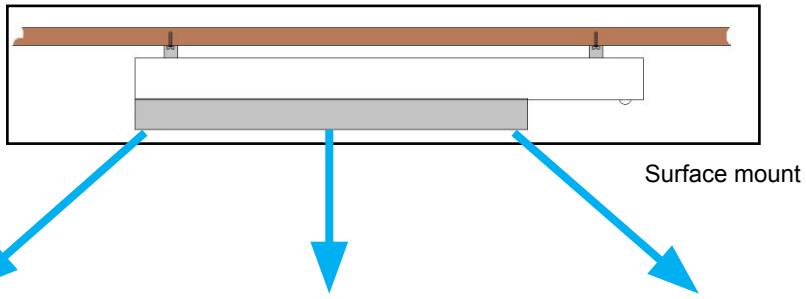
Installation options

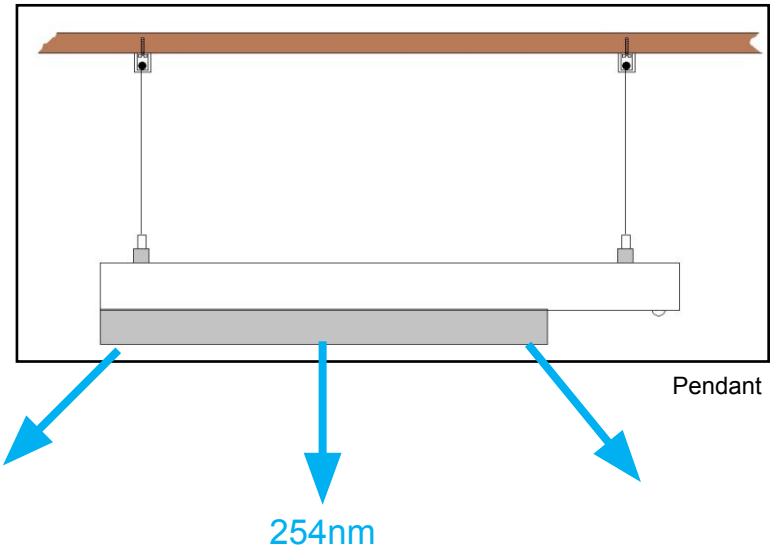


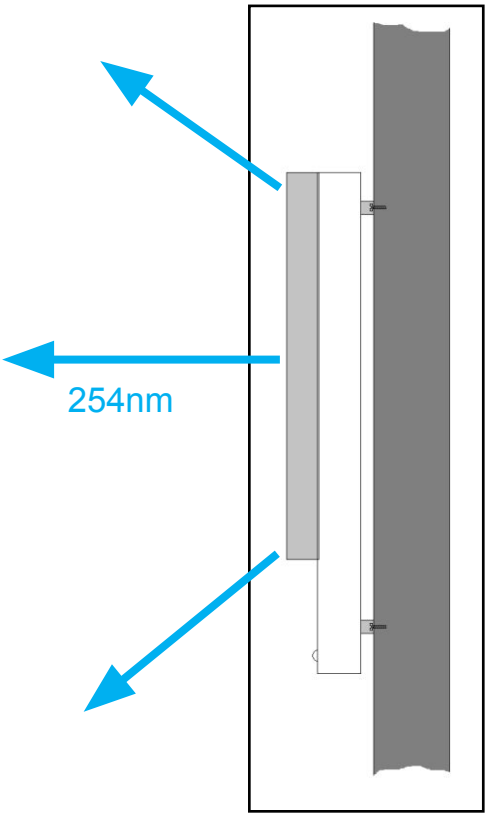
Recessed into lay in 1200 x 600 ceiling tile – (needs an additional infill plate)

SS spring clips are detachable – allowing the clips to be easily fixed to a wall or slab.

Pendant cable can also be supplied for suspension from the ceiling







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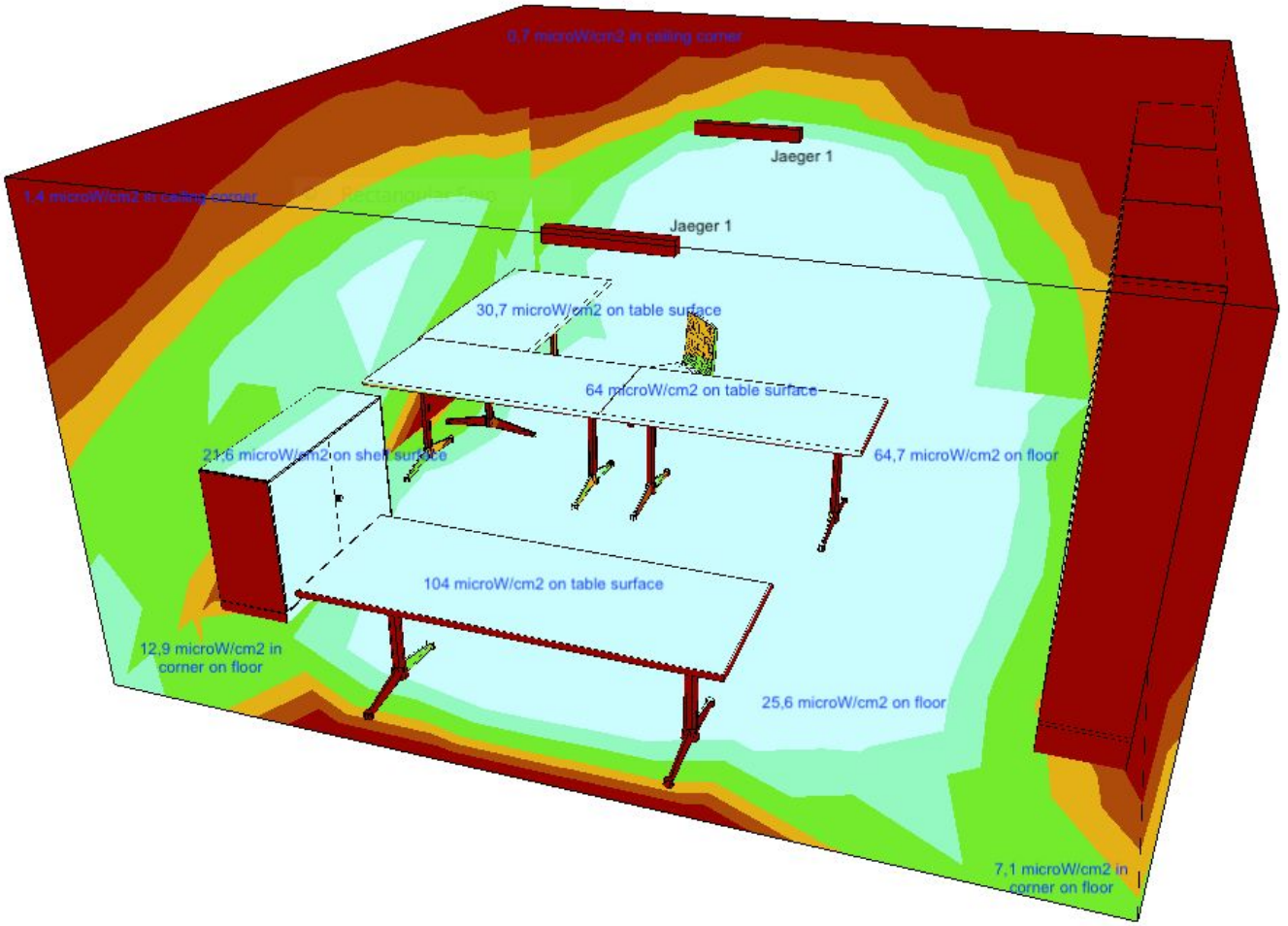
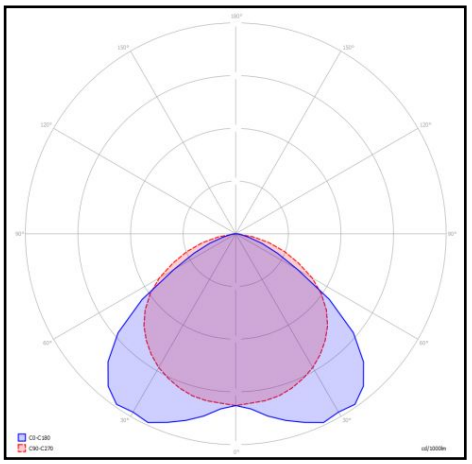
Example of a room with 2 Jaeger 1 installed at ceiling height.





If we were to take TB as an example - 6200µW per second per cm2 is required to render this bacteria inactive.
Then if we take the lowest level achieved in the room – 1,4µW in the top left ceiling corner – divide 6200 by 1,4 = 4428 seconds.
Therefore it would take 73 minutes to render any TB in the far top left corner of the ceiling inactive.
BUT – if we take the work surfaces – like the main table in the centre of the room at 64µW per second per cm2 – TB would be rendered inactive in 1,6 minutes.

To calculate how many UVGI fittings are required per room – please contact us with room width x length x height.

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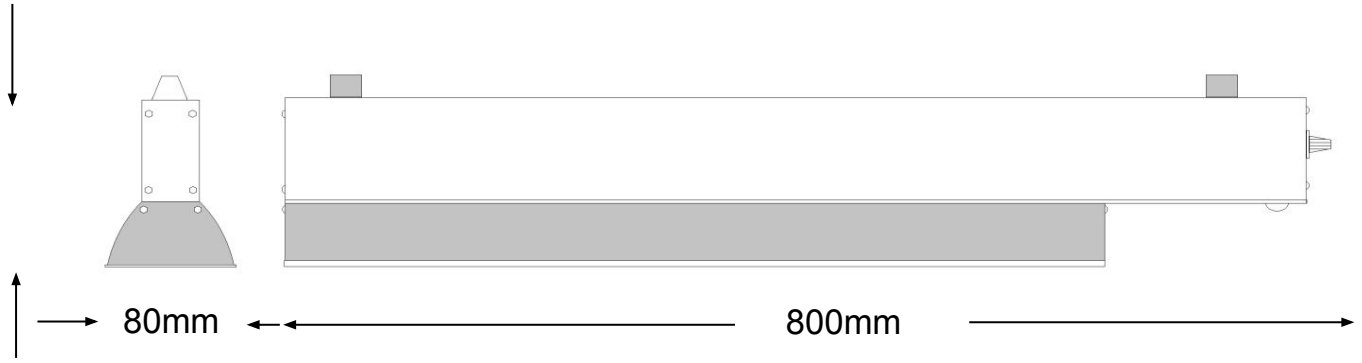

Up to 4 UVC blasters can be mounted to a tripod.
(Tripod is an extra.)

An Hour meter cab be added to accurately monitor lamp life.
(Hour meter is extra.)

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Organisms:	Energy Dosage of Ultraviolet radiation (UV dose) in µW s/cm² needed for kill factor
Bacteria	
Bacillus anthracis - Anthrax	4520
Bacillus anthracis spores - Anthrax spores	24320
Bacillus magaterium sp. (spores)	2730
Bacillus magaterium sp. (veg.)	1300
Bacillus paratyphusus	3200
Bacillus subtilis spores	11600
Bacillus subtilis	5800
Clostridium tetani	13000
Corynebacterium diphtheriae	3370
Ebertelia typhosa	2140
Escherichia coli	3000
Leptospiracanicola - infectious Jaundice	3150
Micrococcus candidus	6050
Micrococcus sphaeroides	1000
Mycobacterium tuberculosis	6200
Neisseria catarrhalis	4400
Phytomonas tumefaciens	4400
Proteus vulgaris	3000
Pseudomonas aeruginosa	5500
Pseudomonas fluorescens	3500
Salmonella enteritidis	4000
Salmonela paratyphi - Enteric fever	3200
Salmonella typhosa - Typhoid fever	2150
Salmonella typhimurium	8000
Sarcina lutea	19700
Serratia marcescens	2420
Shigella dyseteriae - Dysentery	2200
Shigella flexneri - Dysentery	1700
Shigella paradysenteriae	1680
Spirillum rubrum	4400
Staphylococcus albus	1840
Staphylococcus aureus	2600
Staphylococcus hemolyticus	2160
Staphylococcus lactis	6150
Streptococcus viridans	2000
Vibrio comma - Cholera	3375
Molds	
Aspergillius flavus	60000
Aspergillius glaucus	44000
Aspergillius niger	132000
Mucor racemosus A	17000
Mucor racemosus B	17000
Oospora lactis	5000
Penicillium expansum	13000
Penicillium roqueforti	13000
Penicillium digitatum	44000
Rhisopus nigricans	111000
Protozoa	
Chlorella Vulgaris	13000
Nematode Eggs	45000
Paramecium	11000
Virus	
Bacteriopfage - E. Coli	2600
Infectious Hepatitis	5800
Influenza	3400
Poliovirus - Poliomyelitis	3150
Tobacco mosaic	240000
Yeast	
Brewers yeast	3300
Common yeast cake	6000
Saccharomyces carevisiae	6000
Saccharomyces ellipsoideus	6000
Saccharomyces spores	8000

UV doses should be considered a minimal dosage. The listed data was collected from various sources and Giantlight, does not accept any responsibility for the accuracy of this information. This information is meant to be a guideline and should be used as such.

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