

*Delivering state of the  
art UltraViolet  
Germicidal Irradiation  
(UVGI) products. Let's  
fight the Corona Virus  
together*

# LUMOS UV<sup>®</sup>

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# WHY CHOOSE UVGI?

## ABOUT US

We at Finsen Ritter are experts at designing & manufacturing UltraViolet Germicidal Irradiation (UVGI) products. Finsen Ritter features state of the art products for industrial & domestic use. We also offer consultancy services for all UVGI disinfection requirements..

	Chemical Disinfection	UVGI
Cost Effectiveness	✗	✓
Not flammable	✗	✓
Swift Disinfection of a larger premises	✗	✓
Electronics Friendly	✗	✓
Chemicals Free & Eco-friendly	✗	✓
Continious Air Disinfection	✗	✓
Can be used on eatables	✗	✓
No Refills	✗	✓



# LUMOS®

Lumos® is designed to deliver UltraViolet radiation for sterilizing the exposed surfaces and air of an unoccupied area with the help of UVGI lamps. These lamps use Germicidal radiation in the UV-C range of 254 nanometers wavelength, which effectively eliminates dangerous microbes like viruses, bacteria, fungus, moulds and spores. We target UltraViolet dose of 70 mJ/cm<sup>2</sup> making it the best in class.

## UV Power of 450W

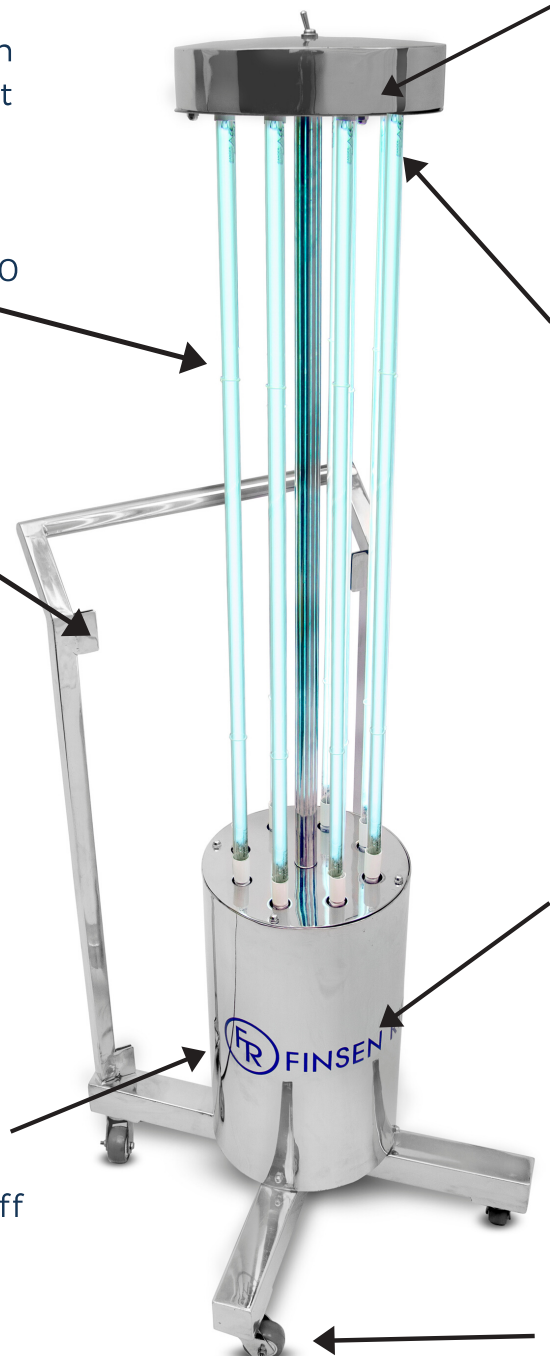
One of the highest in class! State of the art UV-C lamps sourced from leading manufacturers with the rated life of 9000 hours

## Shield attachment

Ergonomic design with feature to provide for UV shield. Enabling the person to move the device while it is turned on

## Industrial Electronic Ballast

Electronic ballasts provide instant on/off functionality. Increasing the tube life



## Bluetooth Enabled

Mobile App offers multiple flexible functionalities like:  
Digital Timer  
Remote power toggle  
Product manuals

## RF Remote

Turn the device on and off with the ease of the remote with a long range

## Smart Phone App

For easy connectivity & versatility

## Industrial grade stainless steel body

Engineered with best in class levels of factor of safety (FoS) providing a robust design

## Stainless Steel Epoxy wheels

Providing durable and sturdy mobility



# LUMOS®

Have a look at our device

## Turned On

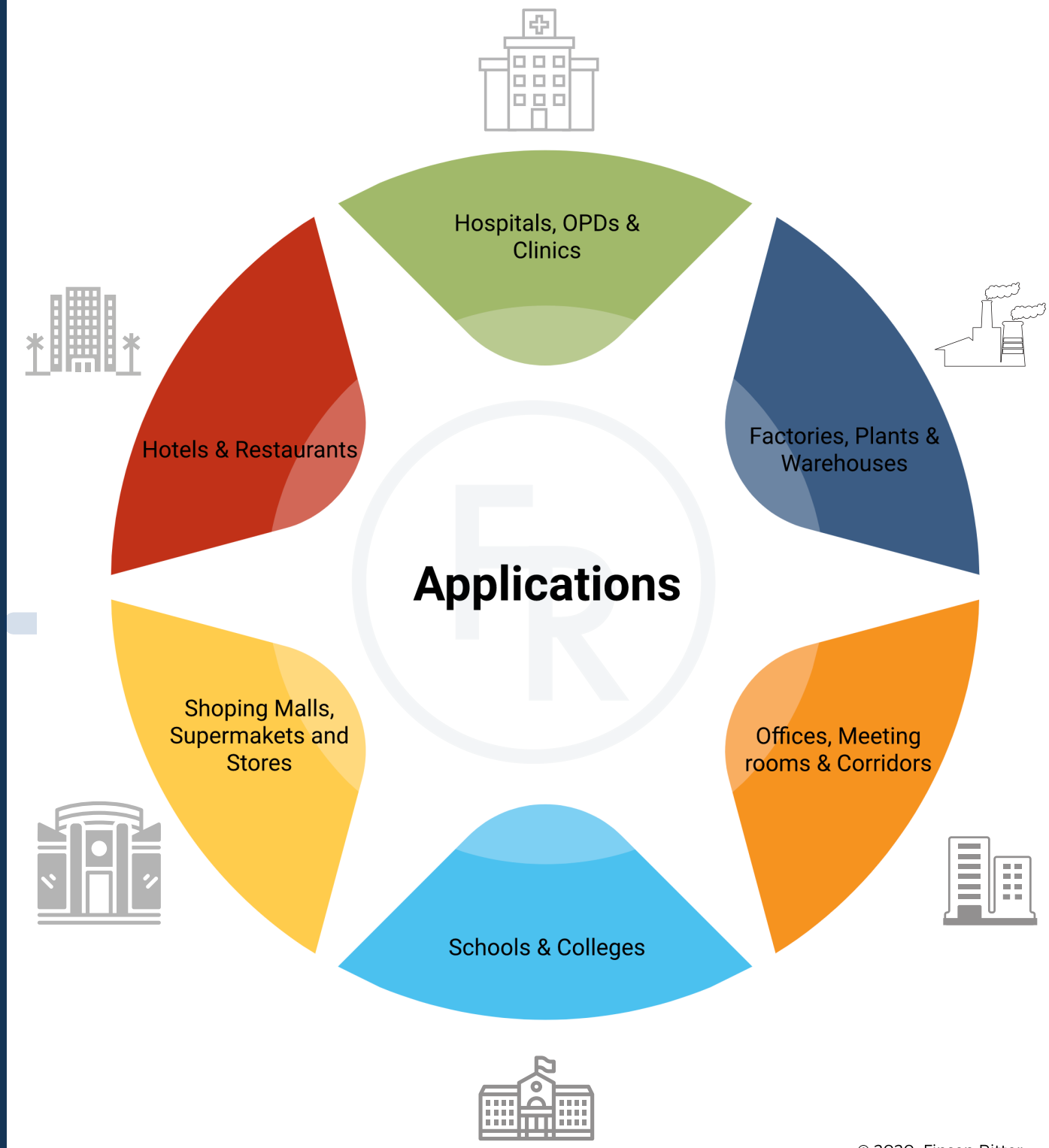


## Turned Off



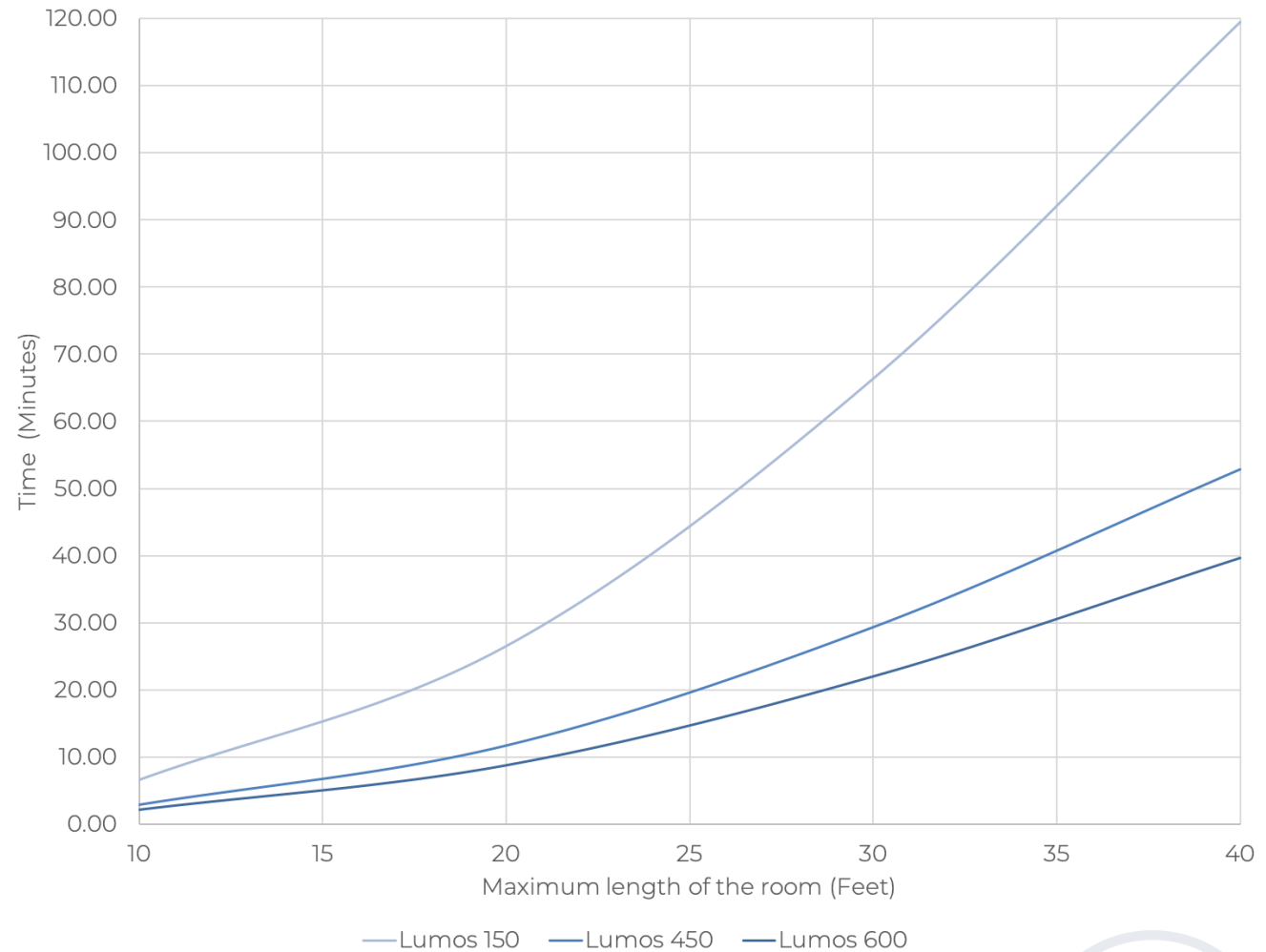


# APPLICATIONS



# TIME TAKEN FOR COMPREHENSIVE STERILISATION

Recommended time for sanitisation of the room of various sizes





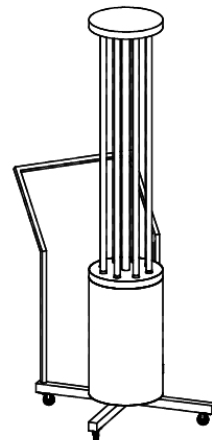
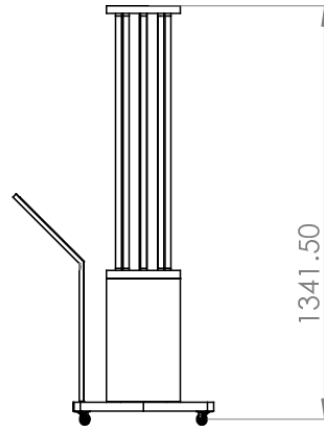
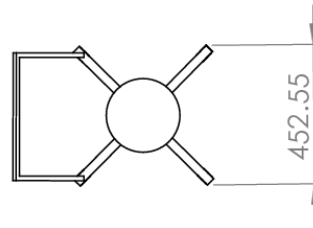
# TECHNICAL SPECIFICATIONS

	LUMOS 600	LUMOS 450	LUMOS MINI
<b>Dimensions</b>	1342 x 453 x 550	1342 x 453 x 550	1200 x 305 x 305
<b>Weight</b>	16 KG	14 KG	9 KG
<b>Wavelength</b>	254 nm	254 nm	254 nm
<b>Power</b>	600 Watts	450 Watts	150 Watts
<b>Power to UVC efficiency</b>	34%	34%	34%
<b>Operating Voltage</b>	220 Volts	220 Volts	220 Volts
<b>Lamp Voltage</b>	178 Volts	178 Volts	178 Volts
<b>Lamp Current</b>	2.55 Amperes	1.70 Amperes	0.85 Amperes
<b>Operating Frequency</b>	50 Hz	50 HZ	50 HZ
<b>Useful Lamp Lifetime (Replacement available)</b>	9000 Hours	9000 Hours	9000 Hours
<b>Wheels</b>	Stainless steel	Stainless steel	Galvanised Iron wheels
<b>Depreciation @ Useful Timeline</b>	15%	15%	15%
<b>Required UV dose for surface</b>	70 mJ/cm2	70 mJ/cm2	70 mJ/cm2
<b>Remote Range</b>	40 feet	40 feet	40 feet

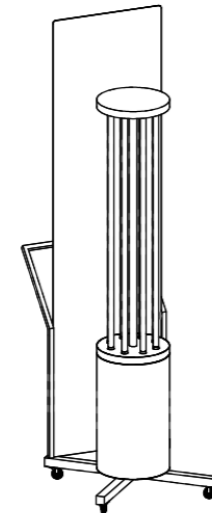
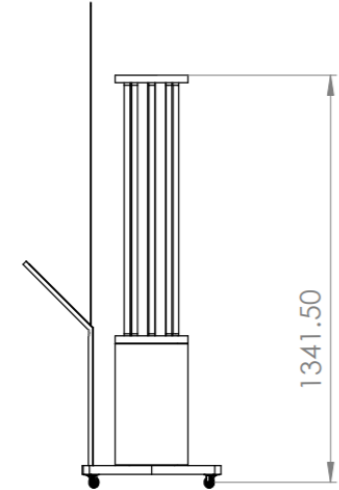
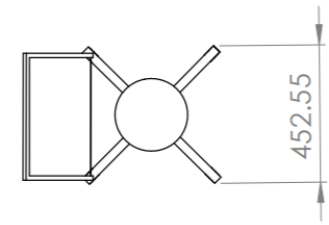


# DIMENSIONS

## Standard



## With Protective Shield







# FREQUENTLY ASKED QUESTIONS

## Does it work on Corona Virus (SARS CoV-2)?

Yes. UVGI inactivated the Corona Virus on sufficient exposure.

## WHAT IS UV-C and UVGI?

Ultraviolet radiation is divided into three categories UV-A (315 - 400 nm), UV-B (280 - 315 nm) & UV-C (200 - 280 nm). UV C is the light with the higher frequency and smaller wavelength. UVGI refers to radiation with specific wavelength (254 nm), scientifically proven to kill and Inactivate most harmful Microbial Pathogens

## WILL UV-C DEGRADE OBJECTS IN THE ROOM?

UV-C is a short wavelength light and does not penetrate most objects. Hospital room disinfection does not accumulate sufficient exposure time to cause any material degradation.

## IS UV-C LIGHT HARMFUL?

UVC radiation refers to wavelengths shorter than 280 nm. These wavelengths are entirely absorbed by our atmosphere and no natural UVC radiation reaches the surface of the earth. These wavelengths are available to us through artificial sources, such as UVC LEDs or mercury lamps. UVC does not penetrate the skin and is almost entirely absorbed by the outer dead layer (stratum corneum) and outer skin (Outer Epidermis) and negligible radiation reaches the living cells of the skin. Human Eyes are most susceptible to UVC exposure due to absence of an outer dead protective layer of skin. Exceeding the threshold level of exposure will cause a painful irritation of the cornea similar to looking directly at Sun. This damage is painful but transitory with corneal shedding and replacement in a day or two. The intensity from point sources like UVC LEDs falls off as 1 over distance squared, and once it gets past the scattering length, it falls off exponentially. This means that the further away a UVC source from a human, the lesser dose they are exposed to.



# FREQUENTLY ASKED QUESTIONS

## HOW DOES IT WORK?

Multiple Scientific Papers and Research Studies prove conclusively that when Pathogenic organisms are irradiated with UV-C light with specific wavelength(UVGI), The UV Photons interact Photochemically with DNA and RNA molecules. Absorption by DNA or RNA (specifically by thymine bases) is known to cause inactivation of the DNA or RNA double helix strands through the formation of thymine dimers. If enough of these dimers are created in DNA, the DNA replication process is disrupted and the organism cannot replicate rendering it inactive

## SHOULD I CLEAN MY DEVICE?

Yes - depending on the surrounding environment, UVC lamps should be checked periodically (approximately every three months) and can be cleaned with a dry cotton cloth or paper towel.

For more information visit:  
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