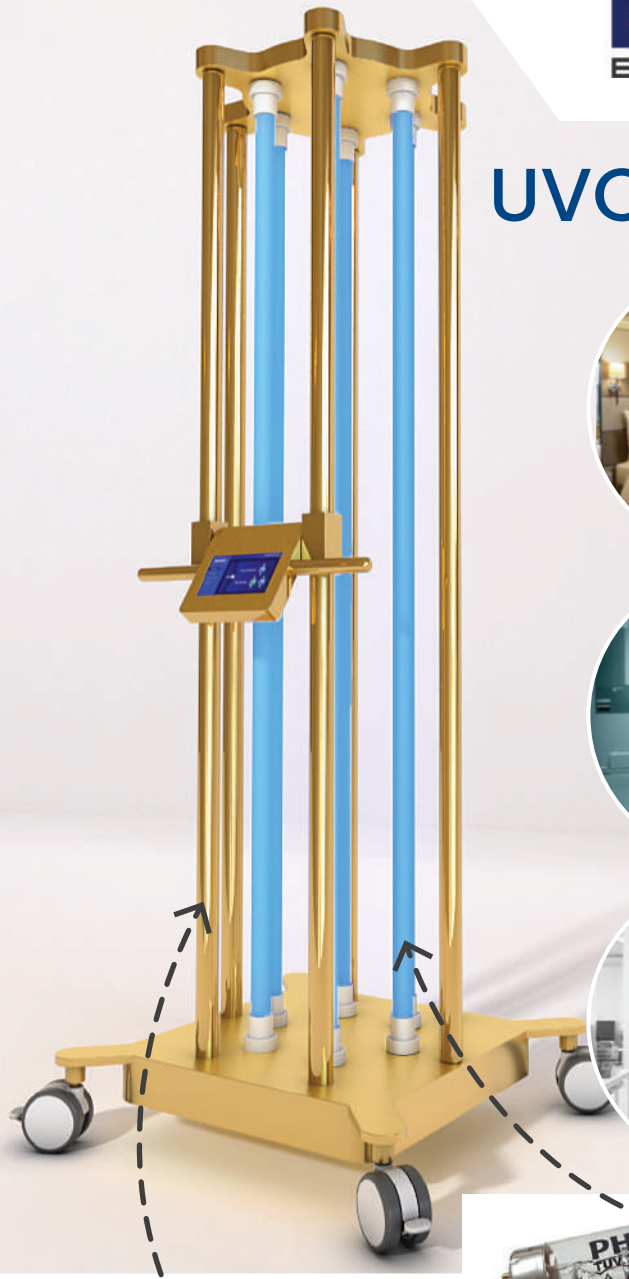
MADA
ELECTRONICS

UVC Terminator

HOTELS

MEDICAL

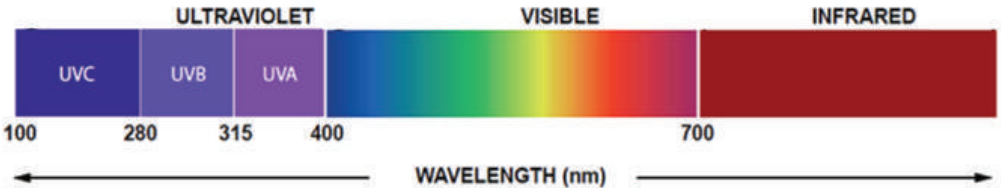
OFFICES



HIGH TEMPERATURE
RESISTANT

PHILIPS
Lighting

UV-C,
Short-wave ultraviolet, 253.7 nm wavelength.



How does MADA UVC Terminator work?

The germicidal UV-C irradiation damages the molecular structure of the DNA and the RNA of microbes, resulting in the death of growth/regenerative cells, which effectively sterilizes and disinfects the surroundings.

Table 1: Summary of UV light studies on Coronaviruses

Microbe	D90 dose (exposure) required	Source
Coronavirus	7 J/m2	Walker 2007
Berne virus (Coronaviridae)	7 J/m2	Weiss 1986
Murine Coronavirus (MHV)	15 J/m2	Hirano 1978
Canine Coronavirus (CCV)	29 J/m2	Saknimit 1988
Murine Coronavirus (MHV)	29 J/m2	Saknimit 1988
SARS Coronavirus CoV-P9	40 J/m2	Duan 2003
Murine Coronavirus (MHV)	103 J/m2	Liu 2003
SARS Coronavirus (Hanoi)	134 J/m2	Kariwa 2004
SARS Coronavirus (Urbani)	241 J/m2	Darnell 2004
Average	**67 J/m2**	

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What is UV-C Light?

Ultraviolet light is the non-visible portion of the electromagnetic spectrum with wavelengths between 100 and 400. nm. The UV-C wavelengths is also called germicidal wavelength, Which are the most effective for inactivating microorganisms with peak effectiveness around 265 nm.

How does UV-C disinfect?

UV-C light destroys the DNA of microorganisms including viruses, bacteria and mold. Once deactivated, these microorganisms are no longer able to reproduce and grow on surfaces.

How long does it take for UV-C to kill microorganism?

The UV-C dose required to inactivate a specific organism depends on the type of the microorganism that is being targeted, the applied UV-C intensity and the time of exposure to UV-C light. MADA Electronics Company closely cooperates with many professional organizations and UV light resources manufactures, so we have an extensive experience and database of dose values required to inactivate various bacteria, virus and molds. We recommend the users reference to our user manuals and consult with your local health care advisers to choose your most suitable time or dose.

When should I replace lamps?

MADA Electronics Company adopts original Phillips Light Source of UVC 253.7nm wavelength long. We usually recommend that the UV lamps should be replaced annually or after 9,000 ~10,000 hours of continuous use. Lamps can still work long after their useful life but will reduce intensity as the lamp filaments wear out over time.

Can someone be in the room during a UV-C cycle?

No, UV-C is harmful and it should only be used when the room is unoccupied. MADA UV disinfection towers are equipped with a smart control sensor, integrated with a timer for sterilization and latency time so that sufficient personal protection for users are provided during operation. And even if someone tried to enter the room while the UV tower is in operation, the sensors (which can sense the human body 6 meters away) will shut the system off automatically.

Can the room be occupied immediately after a UV-C disinfection cycle?

It's recommended to ventilate the room for a few minutes before using it after the sterilization cycle is finished.

Does the UV-C device produce new chemical or by-products?

No, however, there might be some smell which is due to the ozone generated, which automatically breaks down again to oxygen in few minutes.

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UV-C Coverage In News

CNBC

"Ultraviolet lights can **degrade the coronavirus in a matter of seconds**... Researchers at Boston University found that the exposure of the virus (COVID-19)to UV light helps **eradicate** it."

The Science Times

"UV light **degrades 96% of Coronavirus in a matter of 3 seconds**, says Signify."

LIVESCIENCE

"A study published by physicists from Henry Ford hospital now confirms that **UV-C eliminates SARS-CoV-2.**"

"A study published in American Journal of Infection Control found that **UV-C eliminates 99.7% in 30 seconds.**"

healthline

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UV-C Efficacy Studies from Reputable Research Facilites

Here are some studies conducted by credible and reputable universities that showcase the efficacy of UV-C:

I

HARVARD MEDICAL SCHOOL

"We've done the studies. **We know it works**," said a professor at Harvard Medical School about UV-C.

II

UV-C light "kills pathogens in air before we can breathe them," said a physicist from Columbia University.

COLUMBIA UNIVERSITY

III

NASA

"We've known for decades that **UV-C light can disrupt bacteria, can disrupt viruses**, and stop them from replicating," says a former NASA scientist.

IV

"...We know that t**he virus can be killed by ultraviolet light**," said an physician from Cleveland Clinic.

Cleveland Clinic

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Accredited Lab Tests

Here are some mind-blowing lab test results done by an accredited lab by Emirates International Accreditation Center and other governmental entities, that demonstrate the efficacy and impact of this device on germs:

EFFICACY CONSOLIDATED REPORT

Test Report No: URS/F/M/20/12/717 to URS/F/M/20/12/728
Dated: 17 /12/2020

Issued To : MADA Electronics		Sharjah, UAE	
Attention	Dr. Ahmad		
Sample Condition (Receipt Temperature)	5.4°C	Sample Condition (On Site)	23.1°C
Customer Ref.No.	20356 Dated 09/12/2020	Sample Package & Quantity	10 ml
Sample Name	Surface Swab	Sampled by	Lab Representative
Sample description	Colorless Liquid	Delivered by	Lab Representative
Batch No. /Lot No.	NA	Sampling Protocol	URS-SOP-06
Manufacturing Date	NA	Date of Sample Receipt	09/12/2020
Best before date	NA	Date of Analysis	09/12/2020
Other Details	UV Efficiency Report	Date of Completion	17/12/2020

Sample Name	Treatment Status	Parameters Analysed				
		TPC	Coliform	E.coli	YMC	Salmonella
Surface Swab - UV -Terminator - Washroom Door 1 Meter Distance For 5 Minutes	Before	92000000	630000	490000	310000	Detected
	After	0	0	0	0	ND
	Efficacy %	100	100	100	100	100

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EFFICACY CONSOLIDATED REPORT

Test Report No: URS/F/M/20/12/437 to URS/F/M/20/12/456 **Dated:** 17 /12/2020			
Issued To : MADA Electronics		Sharjah, UAE	
Attention	Dr. Ahmad		
Sample Condition (Receipt Temperature)	5.4°C	Sample Condition (On Site)	20.4°C
Customer Ref.No.	20356, 20352, 20357, 20353, 20355, 20354/ Dated 09/12/2020	Sample Package & Quantity	10 ml
Sample Name	Surface Swab	Sampled by	Lab Representative
Sample description	Colorless Liquid	Delivered by	Lab Representative
Batch No. /Lot No.	NA	Sampling Protocol	URS-SOP-06
Manufacturing Date	NA	Date of Sample Receipt	09/12/2020
Best before date	NA	Date of Analysis	09/12/2020
Other Details	UV Efficiency Report	Date of Completion	17/12/2020

Sample Name	Treatment Status	Parameters Analysed		
		Yeast and Mold	Clostridium perfringens	Pseudomonas aeruginosa
Surface Swab - UV-Terminator - Washroom Door 1 Meter Distance For 5 Minutes	Before	120000	220000	450000
	After	0	0	0
	Efficacy %	100	100	100
Surface Swab - UV-Terminator - Office Door 2 Meter Distance for 10 minutes	Before	110000	230000	420000
	After	0	0	0
	Efficacy %	100	100	100
Surface Swab - UV-Terminator - Store Door 3 Meter Distance For 20 Minutes	Before	180000	210000	470000
	After	0	0	0
	Efficacy %	100	100	100

Our UV disinfection Tower, UVC Terminator, was proved capable by these tests to effectively eliminate millions of germs and bacteria in minutes.

Please contact us if you wish to conduct UV efficacy tests at your facility.

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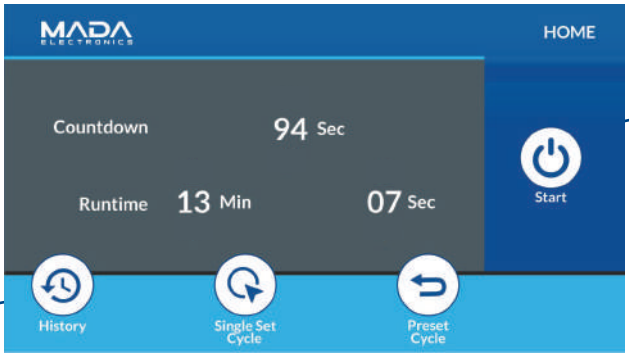
USER-FRIENDLY INTERFACE

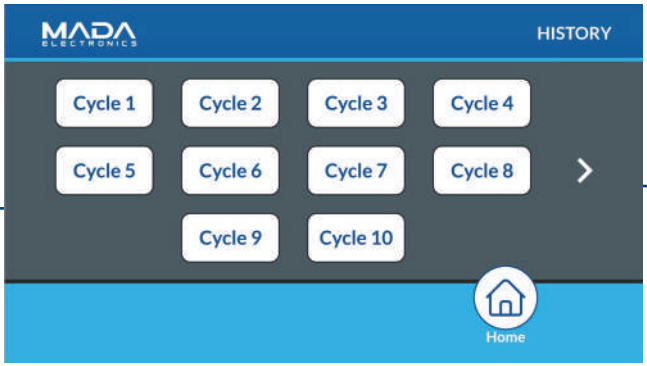
With multiple features.

Customizable Software



With a built-in customizable software to make your sterilization process fast and easy.

Track Your Disinfection Process



A history of the past 20 cycles to help you track the disinfection process.

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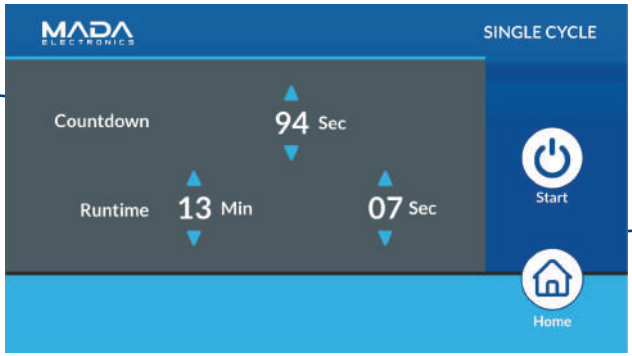
Customized Disinfection Cycle



Customizing a disinfection session according to your requirements.

Preset Cycles

Preset configurations to speed your daily sterilization protocals.

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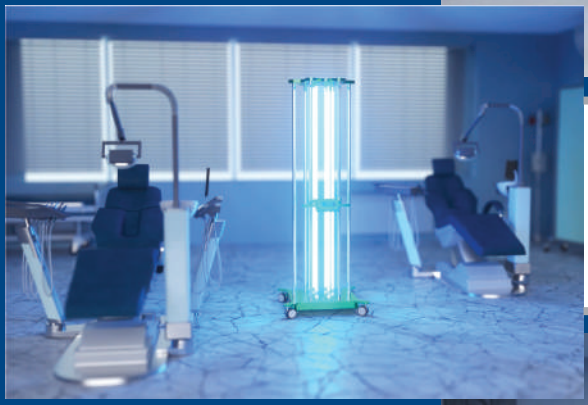
MADA UV-C Disinfection Towers are a must-have for...

Hospitals

Clinics



Dental Centers

Hotels

TECHNICAL PARAMETER

Model:	UVC Terminator
Light Source Qty:	6 Tubes
Light Source Power:	325W x 4 Tubes 145W x 2 Tubes
Wavelength:	UV-C 253.7 nm
Light Source Lifetime:	12,000 Hours
Voltage:	220-240V / 50-60Hz
Current:	7.2A
Device Size:	640 x 640 x 1,715 mm
Net Weight:	~ 60KG
Light Source:	Original Philips Germicidal Light Source
Irradiation Intensity:	2,100μw (1 meter away)

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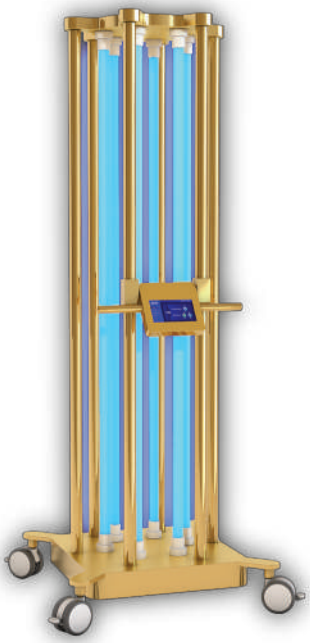
THE DEVICE IS AVAILABLE IN MANY COLORS:



Medical Blue

Gold Plated

Bright Yellow

Royal Black

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MADA ELECTRONICS

UAE, Sharjah