



SPECIFICATION  
& CERTIFICATION

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Recommended by



PORTABLE ELECTRONICS,  
TOOLS AND ACCESSORIES  
**CHARGING & DISINFECTION**

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# SPECIFICATION SHEET

## Small VR12

Model	Small UVC Cabinet			Charging Protection	Leakage and short circuit protection module, over-charging protection
Dimensions (LxWxH)	750 x 400 x 860mm			Power System	INPUT:AC100-240V 50/60HZ (country-specific standards)
Charging Devices	Portable electronics includes laptop, tablets, VR Headsets			Rated Power	200W
Shelf Sizes	W: 600mm x D: 250mm x H: 200mm			UVC Disinfection	YES (254nm wavelength, low pressure UVC lamps)
Doors	1x Double sided doors (front)			Power of UVC Lamps	15W, one lamp for each layer
Max. Capacity: Tablets (on vertical racks)	30			Time-Setting Function	YES
Max Capacity: Laptop (13inch)	6			Cooling and Ventilation	YES
Max Capacity: VR Headsets	12			Casters	4 universal casters, two with locking functions
Size of Unit Storage Slot (LxWxH)	250 x 150 x 200mm			Mobility	One-handle with ergonomic design and property chassis
Shelf Movement Range	Top and middle shelf can be moved up/down by 4cm			Security	3 point mechanism with locking in doors, separate locking on top IT area
Charging Port	USB charging ports			Warranty	Two year warranty (cords and plugs not covered)



# SPECIFICATION SHEET

## Medium VR20

Model	Medium UVC Cabinet	Charging Protection	Leakage and short circuit protection module, over-charging protection
Dimensions (LxWxH)	750 x 600 x 860mm	Power System	INPUT:AC100-240V 50/60HZ (country-specific standards)
Charging Devices	Portable electronics including laptops, tablets, VR headsets	Rated Power	250W
Shelf Sizes	W: 600, D: 550, H:200mm	UVC Disinfection	YES (254nm wavelength, low pressure UVC lamps)
Doors	2x Double sided doors (front and back)	Power of UVC Lamps	15W, one lamp for each layer
Max. Capacity: Tablets (on vertical racks)	60	Time-Setting Function	YES
Max Capacity: Laptop (13inch)	12	Cooling and Ventilation	YES
Max Capacity: VR Headsets	20	Casters	4 universal casters, two with locking functions
Size of Unit Storage Slot (LxWxH)	250x150x200mm	Mobility	One-handle with ergonomic design and property chassis
Shelf Movement Range	Top and middle shelf can be moved up/down by 4cm	Security	3 point mechanism with locking in doors, separate locking on top IT area
Charging Port	USB charging ports	Warranty	Two year warranty (cords and plugs not covered)





# SPECIFICATION SHEET

## Large VR30

Model	Large UVC Cabinet			Charging Protection	Leakage and short circuit protection module, over-charging protection
Dimensions (LxWxH)	900 x 600 x 860mm			Power System	INPUT:AC100-240V 50/60HZ (country-specific standards)
Charging Devices	Portable electronics includes laptop, tablets, VR Headsets			Rated Power	330W
Shelf Sizes	W: 750, D: 550, H:200mm			UVC Disinfection	YES (254nm wavelength, low pressure UVC lamps)
Doors	2x Double sided doors (front and back)			Power of UVC Lamps	15W, one lamp for each layer
Max. Capacity: Tablets (on vertical racks)	75			Time-Setting Function	YES
Max Capacity: Laptop (13inch)	18			Cooling and Ventilation	YES
Max Capacity: VR Headsets	30			Casters	4 universal casters, two with locking functions
Size of Unit Storage Slot (LxWxH)	250x150x200mm			Mobility	One-handle with ergonomic design and property chassis
Shelf Movement Range	Top and middle shelf can be moved up/down by 4cm			Security	3 point mechanism with locking in doors, separate locking on top IT area
Charging Port	USB charging ports			Warranty	Two year warranty (cords and plugs not covered)



IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict

Table 6.1		Emission limits for risk groups of continuous wave lamps							P
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	S <sub>UV</sub> (λ)	E <sub>s</sub>	W•m <sup>-2</sup>	0,001	3,934E-04	0,003	-	0,03	-
Near UV		E <sub>UVA</sub>	W•m <sup>-2</sup>	10	6,114E-03	33	-	100	-
Blue light	B(λ)	L <sub>B</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	100	1,418E-01	10000	-	4000000	-
Blue light, small source	B(λ)	E <sub>B</sub>	W•m <sup>-2</sup>	1,0	-	1,0	-	400	-
Retinal thermal	R(λ)	L <sub>R</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	28000/α	3,003E+00	28000/α	-	71000/α	-
Retinal thermal, weak visual stimulus**	R(λ)	L <sub>IR</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	6000/α	2,764E-02	6000/α	-	6000/α	-
IR radiation, eye		E <sub>IR</sub>	W•m <sup>-2</sup>	100	6,342E-02	570	-	3200	-
<div>* Small source defined as one with α &lt; 0,011 radian. Averaging field of view at 10000 s is 0,1 radian.</div> <div>** Involves evaluation of non-GLS source</div> <div>α=0,0770rad</div>									
Model Name	VR12								
Lamp Classification	<div><input checked="" type="checkbox"/> Except Group</div> <div><input type="checkbox"/> Risk Group 1 (Low-Risk)</div> <div><input type="checkbox"/> Risk Group 2 (Moderate-Risk)</div> <div><input type="checkbox"/> Risk Group 3 (High-Risk)</div>								
Measurement conditions	The distance between lighting surface of the light and detector was 200 mm during the test, and the door is closed during the measurement.								

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict

Table 6.1		Emission limits for risk groups of continuous wave lamps							P	
Risk	Action spectrum	Symbol	Units	Emission Measurement						
				Exempt		Low risk		Mod risk		
				Limit	Result	Limit	Result	Limit	Result	
Actinic UV	S <sub>UV</sub> (λ)	E <sub>s</sub>	W•m <sup>-2</sup>	0,001	8,438E-04	0,003	-	0,03	-	
Near UV		E <sub>UVA</sub>	W•m <sup>-2</sup>	10	9,081E-03	33	-	100	-	
Blue light	B(λ)	L <sub>B</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	100	1,452E+00	10000	-	4000000	-	
Blue light, small source	B(λ)	E <sub>B</sub>	W•m <sup>-2</sup>	1,0	-	1,0	-	400	-	
Retinal thermal	R(λ)	L <sub>R</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	28000/α	7,872E+01	28000/α	-	71000/α	-	
Retinal thermal, weak visual stimulus**	R(λ)	L <sub>IR</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	6000/α	1,065E+00	6000/α	-	6000/α	-	
IR radiation, eye		E <sub>IR</sub>	W•m <sup>-2</sup>	100	1,142E-01	570	-	3200	-	
* Small source defined as one with α < 0,011 radian. Averaging field of view at 10000 s is 0,1 radian. ** Involves evaluation of non-GLS source α=0,0820rad										
Model Name		VR20								
Lamp Classification		<input checked="" type="checkbox"/> Except Group <input type="checkbox"/> Risk Group 1 (Low-Risk) <input type="checkbox"/> Risk Group 2 (Moderate-Risk) <input type="checkbox"/> Risk Group 3 (High-Risk)								
Measurement conditions		The distance between lighting surface of the light and detector was 200 mm during the test, and the door is closed during the measurement.								

IEC 62471			
Clause	Requirement + Test	Result – Remark	Verdict

Table 6.1		Emission limits for risk groups of continuous wave lamps							P	
Risk	Action spectrum	Symbol	Units	Emission Measurement						
				Exempt		Low risk		Mod risk		
				Limit	Result	Limit	Result	Limit	Result	
Actinic UV	S <sub>UV</sub> (λ)	E <sub>s</sub>	W•m <sup>-2</sup>	0,001	6,741E-04	0,003	-	0,03	-	
Near UV		E <sub>UVA</sub>	W•m <sup>-2</sup>	10	7,802E-03	33	-	100	-	
Blue light	B(λ)	L <sub>B</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	100	1,440E-01	10000	-	4000000	-	
Blue light, small source	B(λ)	E <sub>B</sub>	W•m <sup>-2</sup>	1,0	-	1,0	-	400	-	
Retinal thermal	R(λ)	L <sub>R</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	28000/α	6,135E+01	28000/α	-	71000/α	-	
Retinal thermal, weak visual stimulus**	R(λ)	L <sub>IR</sub>	W•m <sup>-2</sup> •sr <sup>-1</sup>	6000/α	1,453E-02	6000/α	-	6000/α	-	
IR radiation, eye		E <sub>IR</sub>	W•m <sup>-2</sup>	100	4,181E-02	570	-	3200	-	
<div>* Small source defined as one with α &lt; 0,011 radian. Averaging field of view at 10000 s is 0,1 radian.</div> <div>** Involves evaluation of non-GLS source</div> <div>α=0,0840rad</div>										
Model Name		VR30								
Lamp Classification		<div><input checked="" type="checkbox"/> Except Group</div> <div><input type="checkbox"/> Risk Group 1 (Low-Risk)</div> <div><input type="checkbox"/> Risk Group 2 (Moderate-Risk)</div> <div><input type="checkbox"/> Risk Group 3 (High-Risk)</div>								
Measurement conditions		The distance between lighting surface of the light and detector was 200 mm during the test, and the door is closed during the measurement..								





中国认可  
国际互认  
检测  
TESTING  
CNAS L0823



# 广州市微生物研究所

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

## 检测报告

## TEST REPORT

Report Number	KJ20202220(A)
Name of Sample	Charging Cart
Applicant	Chengdu Haix Technology Co., Ltd.





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Test No. KJ20202220

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY**  
**TEST REPORT**

Date Received: Jun. 02, 2020

Date Analyzed: Jun. 03, 2020

Name of Sample	Charging Cart	Source of Sample	Delivery
Applicant	Chengdu Haix Technology Co., Ltd.	Client	Li Bingqing
Manufacturer	Chengdu Haix Technology Co., Ltd.	Brand	UV hygienics
Type and Specification	VR Series	Quantity of Sample	1PC
Date of Production	2020.05.08	State of Sample	Machine
Batch Number	HNS20200508	Packing of Sample	In box
Sample Picture			
Standard and Methods	<Technical Standard For Disinfection> 2002-2.1.5 Sterilization and sterilization equipment sterilization efficacy evaluation test		
Items of Analysis	Germicidal Effect ( <i>Staphylococcus aureus</i> ATCC 6538, <i>Escherichia coli</i> 8099)		
Remarks	<ol style="list-style-type: none"><li>The client claimed that the brand Genius Charge and Haixtek are the same as UV Burning brands in this test. Except for brand name differences, the power, electrical principle, structure, components and parameters used, and materials are identical.</li><li>This test report is the English additional Edition of KJ20202220 issued on July10, 2020.</li></ol>		

\*\*\*To be continued\*\*\*





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Test No. KJ20202220

## GUANG ZHOU INSTITUTE OF MICROBIOLOGY

### TEST REPORT

Date Received: Jun. 02, 2020

Date Analyzed: Jun. 03, 2020

#### Sterilization and Sterilization Equipment Sterilization Efficacy Evaluation Test

1. Test Bacteria: *Staphylococcus aureus* ATCC 6538, *Escherichia coli* 8099
2. Culture Media: NA
3. Carrier: Cloth piece (10mm × 10mm)
4. Test Procedure
  - 1) Prepare bacterial tablets according to the method shown in <Technical Standard For Disinfection>2002-2.1.1.2 and 2.1.1.9. The recovered bacterial count of each bacterial tablet is  $5 \times 10^5$  cfu/ piece  $\sim 5 \times 10^6$  cfu/ piece.
  - 2) The prepared bacteriums were placed at different positions in the charging cabinet to start the machine and sterilized for 5min and 30min respectively. Immediately after the action, put the bacterial tablets into a sterile test tube containing 5.0 mL PBS, and conduct live bacterial culture count.
  - 3) For the positive control group, the same batch of bacterial tablets used in the test were used to conduct live bacterial culture count.
  - 4) The negative control group was cultured with the same batch of medium or PBS inoculation medium to observe the sterile growth.
  - 5) Repeat the test for 3 times.





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Test No. KJ20202220

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

TEST REPORT

Date Received: Jun. 02, 2020

Date Analyzed: Jun. 03, 2020

5. Test results:

Test Bacteria	Test Time (min)	Positive Control Group (cfu/piece)	Placed	The Sample Group (cfu/ piece)	*Killing Rate (%)	Killing Log Value
<i>Staphylococcus aureus</i>	5	1.15×10 <sup>6</sup>	The upper left	<5	>99.99	>3.00
			The upper right	<5	>99.99	>3.00
		1.31×10 <sup>6</sup>	The middle left	<5	>99.99	>3.00
			The middle right	<5	>99.99	>3.00
		1.39×10 <sup>6</sup>	The lower left	<5	>99.99	>3.00
			The lower right	<5	>99.99	>3.00
	30	1.11×10 <sup>6</sup>	The upper left	<5	>99.99	>3.00
			The upper right	<5	>99.99	>3.00
		1.23×10 <sup>6</sup>	The middle left	<5	>99.99	>3.00
			The middle right	<5	>99.99	>3.00
		1.30×10 <sup>6</sup>	The lower left	<5	>99.99	>3.00
			The lower right	<5	>99.99	>3.00
<i>Escherichia coli</i>	5	1.25×10 <sup>6</sup>	The upper left	<5	>99.99	>3.00
			The upper right	<5	>99.99	>3.00
		1.40×10 <sup>6</sup>	The middle left	<5	>99.99	>3.00
			The middle right	<5	>99.99	>3.00
		1.16×10 <sup>6</sup>	The lower left	<5	>99.99	>3.00
			The lower right	<5	>99.99	>3.00
	30	1.08×10 <sup>6</sup>	The upper left	<5	>99.99	>3.00
			The upper right	<5	>99.99	>3.00
		1.15×10 <sup>6</sup>	The middle left	<5	>99.99	>3.00
			The middle right	<5	>99.99	>3.00
		1.24×10 <sup>6</sup>	The lower left	<5	>99.99	>3.00
			The lower right	<5	>99.99	>3.00

Note: 1) The negative control group was sterile growth.

2) Killing Rate (%) =  $\frac{\text{Positive Control Group (cfu / piece)} - \text{The Sample Group (cfu / piece)}}{\text{Positive Control Group (cfu / piece)}} \times 100\%$

\*\*\*End of report\*\*\*

Editor 黄东浪

Checker

马虎

Issuer

李

Date Reported





# Certificate of Compliance



No. 00160325.CHT0011

Test Reports no. DEU(16)-03-X1001S, DEU(16)-03-X1001E

Certificate's  
Holder:

Chengdu Haixin Technology Co., Ltd.  
2529 Xiyuan Avenue, South District, Chengdu  
Modern Industrial Harbor, Pi County, Chengdu,  
China

Certification ECM  
Mark:



Product:

Multi-function Power manager/Power  
management/Power manage/APM system

Model(s):

HX-6002(PM-02), HX-6001(PM-01), HX-6001A,  
HX-6003(PM-03), PM-S, PM-I, PM-C

Verification to:

Standard:

EN 60950-  
1:2006+A11:2009+A1:2010+A12:2011+A2:2013,  
EN 55024:1998+A1:2001+A2:2003,  
EN 55022:2006+A1:2007,  
EN 61000-3-2:2000+A2:2005+A1:2009+A2:2009,  
EN 61000-3-3:1995+A1:2001+A2:2005

related to CE Directive(s):

2014/35/EU (Low Voltage)

2014/30/EU (Electromagnetic Compatibility)

**Remark:** The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at [www.entecerma.it](http://www.entecerma.it). This Certificate of Compliance can be checked for validity at [www.entecerma.it](http://www.entecerma.it).

This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the **CE** Marking:



We attest that a TCF for the **CE** Marking process is in place. Whereas the Manufacturer is Responsible to start the **CE Marking Certification Procedure** and to perform all the necessary activities, as required by the Directive before placing the **CE** Mark on the product(s).

Date of issue 25 March 2016

Expiry date 24 March 2021

Chief Manager  
Tim Mahan

Deputy Manager  
Viola Miller

**Ente Certificazione Macchine Srl**

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**BST****A RELIABLE TESTING FOR TRUST**

GLOBAL TESTING AND CERTIFICATION PRECISION SERVICE CLOUD FACTORY

# Certificate of Compliance

**Certificate Number: BSTDG200513822701CC**

**Applicant** : ZHONGSHAN SHENGSHI LIGHTING TECHNOLOGY CO.,LTD  
Backseat No.16 Huaguang Chaohua Road, Guzhen town, zhangshan  
City,, Guangdong Province, P.R.China

**Manufacturer** : ZHONGSHAN SHENGSHI LIGHTING TECHNOLOGY CO.,LTD  
Backseat No.16 Huaguang Chaohua Road, Guzhen town, zhangshan  
City,, Guangdong Province, P.R.China

**Product Name** : T8 UV LAMP

**Main Test Model** : SS-T8-UV-1199,AC110-250V,50/60Hz

**Additional Model** : SS-T8-UV-331,SS-T8-UV-436,SS-T8-UV-589,SS-T8-UV-894,  
AC110-250V,50/60Hz

**Test Standard** : IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013,  
IEC 62321-6:2015, IEC 62321-7-1:2015,  
IEC 62321-7-2:2017, IEC 62321-8:2017

**As shown in the  
Test Report No.** : BSTDG200513822701CR

The EUT described above has been tested by us and found in compliance with the council RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102. This certificate is only valid in conjunction with the test report.

**RoHS****Approved Signatory****May 21, 2020****Dongguan BST Testing Co., Ltd**

Add: A1201-1204 Xinsanqi of Dongbao Road, Dongcheng District, Dongguan, Guangdong, China

Certificate Search: <http://www.bst-lab.com>, Tel: 400-8829628, 800-9990305, E-mail: [christina@bst-lab.com](mailto:christina@bst-lab.com)

# FAQs

Find below answers to the most common asked questions.

## How big is the cabinet?

VR12 Cabinet - D400mm W750mm H770mm

VR20 Cabinet - D600mm W750mm H770mm

VR30 Cabinet - D600mm W900mm H770mm

## Does it prevent the spread of Covid 19?

It is scientifically proven that UVGI kills all the bacteria, spores, viruses, protozoans, moulds and yeasts. The level of UV irradiance in our cabinets will kill 99.9% of Poliovirus 1, SARS, H-CoV 229E, H-CoV OC43, H-CoV 229E, Influenza A (H1N1), Covid 19 in under one minute of exposure (\*ref.: M. Buonanno, D. Welch, I. Shuryak, D.J. Brenner; DOI: 10.21203/ rs.3.rs -25728/v1), (\*ref.: Tree et al. 2005), (\*ref.: CDC, 2020) . The longer the exposure, the higher log reduction is achieved.

## Can it cause radiation exposure?

Our cabinets are designed the way that no radiation will escape. We can back this up with EIC 62471 Photobiological Safety certificate; we are in the Exempt group - the highest safety standard. Additionally all devices are equipped with a door safety switch preventing accidental light exposure (in case if the doors are opened during sanitization cycle).

## Is it safe?

It is completely safe for the users, and the public. All the devices have CE, RoHS, EIC 62471, are certified for Electromagnetic Compatibility and in line with Low Voltage Directive. Additionally our manufacturing processes are in line with ISO 9001 and ISO 14001.

## What testing and certification for health and safety does this UVISAN have?

CE, RoHS, EIC 62471, Electromagnetic Compatibility/Low Voltage Directive, ISO 9001, ISO 14001, Sterilization Efficacy Evaluation certificate.

## How does it work?

Ultraviolet germicidal irradiation (UVGI) is a disinfection method that uses short-wavelength ultraviolet (ultraviolet C or UVC) light to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions. UVGI is used in a variety of applications, such as food, air, and water purification.

## Does the product kill Covid?

It is scientifically proven that UVGI kills all the bacteria, spores, viruses, protozoans, moulds and yeasts. The level of UV irradiance we have in our cabinets will kill 99.9% of Poliovirus 1, SARS, H-CoV 229E, H-CoV OC43, H-CoV 229E, Influenza A (H1N1), Covid 19 in under one minute of exposure. The longer the exposure, the higher log reduction is achieved. (\*ref.: M. Buonanno, D. Welch, I. Shuryak, D.J. Brenner; DOI: 10.21203/ rs.3.rs -25728/v1), (\*ref.: Tree et al. 2005), (\*ref.: CDC, 2020)

## Has a laboratory certified that?

We are using medical grade UVGI lamps, which are proven to kill the bacteria, spores, viruses, protozoans, moulds and yeasts. We have a third party lab certificate confirming antibacterial effectiveness, we are currently scoping third party antiviral tests.

## Is the product safe for me/the operators eyes; skin etc?

Yes, it is completely safe for users and the public. Our cabinets are designed the way that no radiation will escape. We can back this up with EIC 62471 Photobiological Safety certificate; we are in the Exempt group - the highest safety standard. Additionally all devices are equipped with a door safety switch preventing accidental light exposure (in case if the doors are opened during sanitization cycle).

# FAQs

Find below answers to the most common asked questions.

## Is it environmentally unsound - I hear it produces ozone?

NIOSH (National Institute for Occupational Safety and Health) defines a safe exposure limit for ozone at 0.1ppm. Our lamps combined production is very small - 0.07 particles per million (measured inside of the cabinet at the maximum concentration). Ozone is an excellent disinfectant and in our cabinets adds to the sanitization effect. The air containing ozone is extracted by a specially designed filtration system, which turns O<sub>3</sub> into O<sub>2</sub>. Concentration after the catalyst filter is negligible. The UV sanitation in comparison to various chemicals it's very clean and environmentally friendly and most importantly does not leave any residue on disinfected surfaces.

## What can I NOT clean in it?

No liquids and no living creatures are allowed inside of our cabinets. Other than that, almost every commonly used item which needs a surface disinfection can be cleaned. Metals, various plastics, cardboard, rubber surfaces can be effectively sanitized in our devices.

## What certifications do you have?

CE, RoHS, EIC 62471, Electromagnetic Compatibility/Low Voltage Directive, ISO 9001, ISO 14001, Sterilization Efficacy Evaluation certificate.

## Does it meet EU law requirements for this type of equipment?

Yes, it does (CE, RoHS, EIC 62471, Electromagnetic Compatibility/Low Voltage Directive, ISO 9001, ISO 14001, Sterilization Efficacy Evaluation certificate).

## Do you provide a guarantee/ support service?

Yes, we have a standard year guarantee and we provide customer support.

## Can it damage what I put into it?

We have done excessive stress testing with various headsets and other popular electronic devices (mobile phones, tablets etc) simulating 1.5 year of standard usage. We observed no impact of the UVC radiation neither on the appearance nor on functionality.

## Is there any fire risk?

All the electric and electronic devices are protected by circuit breaker and RCD module. Also during normal operation the temperature inside the cabinet is in the region between 20 and 30 degrees Celsius. Additionally the cabinet is made of non combustible materials (mostly steel)

## What weight can the shelves take?

10 kg per shelf is the maximum we recommend.

## What are the internal dimensions of the shelves?

VR12: D500\*W600\*H200mm

VR20,VR30: D500\*W750\*H200mm

Height is adjustable - each shelf can move up and down by 4cm. Due to modular construction there is also the possibility of shelves removal. The standard vertical clearance between the shelves is 20cm, maximum clearance (with two shelves adjacent) is 28cm.

## How is the machine calibrated so it always achieves 264nm?

It is specific to the lamp - an electric discharge produces UV radiation in a very narrow band (peak exactly at 254nm). There are also small "sidebands" produced in a visible range (over 400nm) - this is the pale blue colour characteristic to all UVC lamps.

# FAQs

Find below answers to the most common asked questions.

## **What is the shelf life of the machine? Does it always achieve 264nm over the life cycle? Is there an indicator for this?**

Lamps offer almost constant UV output over their complete lifetime, for maximum security of disinfection and high system efficacy - always 254nm. Lifespan of our lamps is 8000 hours. With a standard working cycle (4 cycles an hour, 8 hours a day, 5 days a week) - annually this accounts to 693 hours.

## **What is covered under the warranty?**

1. Limitations of Warranty. We make no warranties to any third party.
2. Disclaimer of Warranty. Except as expressly provided otherwise herein and to the maximum extent permitted by applicable law, we disclaim all other warranties with respect to the product, whether express, implied, statutory or otherwise, including without limitation, satisfactory quality, course of dealing, trade usage or practice or the implied warranties of merchantability, fitness for a particular purpose or non infringement of third party rights.
3. Limitation of Liability. In no event shall we be liable for indirect, incidental, special, exemplary, punitive, or consequential damages of any nature including, but not limited to, loss of profits, data, revenue, production, or use, business interruption, or procurement of substitute goods or services arising out of or in connection with this limited warranty, or the use or performance of any product, whether based on contract or tort, including negligence, or any other legal theory, even if we has advised of the possibility of such damages. Our total, aggregate liability for damages of any nature, regardless of form of action, shall in no event exceed the amount paid by you to us for the specific product upon which liability is based

## **What is the environmental operating temperatures.maximum/minimum.**

The cabinets are designed to work in ambient room temperatures (temperature range 18 - 30 degrees celsius). Cabinets are not designed to work in wet or cold conditions.

## **Can the unit be left on overnight?**

Yes.

## **Does it need to be switched off after the cycle is complete?**

VR12 200W

VR 20 250W

VR30 330W

## **Do you supply replacement parts?**

Yes.

## **Do I have to clean the inside or outside of the UVISAN cabinet - the door/ handles etc - is there any residue inside of dirt or viruses etc?**

We recommend dusting the cabinets with soft cloth as a standard daily practice. Outside of the cabinet should be wiped with 70% alcohol wipes.

## **should a user wear gloves to remove items ?**

We would suggest gloves are worn as an extra precaution .