

GRIZZLY

ROBOTICS®

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SPECTRA infinity



AREA DISINFECTION
99
.9999 %

efficiency UVC
disinfection technology

efficiency AIRFLOW UVC
disinfection technology

AIR DISINFECTION
99
.9999 %

IN SHADED AREAS
99
.9999 %

efficiency OZONE
disinfection technology

POWERFULL HYBRID DISINFECTION SYSTEM

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ONE DEVICE



ONE MISSION



ONE POSSIBLE RESULT



SPECTRA infinity



360° UVC TECHNOLOGY 

AIRFLOW UVC TECHNOLOGY 

OZONE TECHNOLOGY 



3 in 1

24/7

3 TECHNOLOGIES FOR UNLIMITED USING

AIRFLOW UVC EMITTER

Airflow UVC emitter SPECTRA infinity provides sterile air, free of the pathogens during the presence of the people.

The risk of airborne infection is minimized.

OPEN (direct) UVC EMITTER

Open (direct) UVC emitter SPECTRA infinity provides rapid disinfection of air and surfaces without the presence of the people.

The area of 100 m² is disinfected in less than 10 min.

OZONE GENERATOR

Ozone generator SPECTRA infinity secures the sterile surroundings without the presence of the people.

(including shaded areas)

Spectra Infinity provides continual health protection of the personnel and patients in medical facilities, 24/7. Except of providing sterile air within 10 minutes, the device is ready to provide an uninterrupted air disinfection all day long in the presence of the people.



14:26

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100%



Logged in as: Admin

DEVICE STATUS

CONNECTED

AIRFLOW UVC
DISINFECTION

UVC
DISINFECTION





OZONE
DISINFECTION

STOP

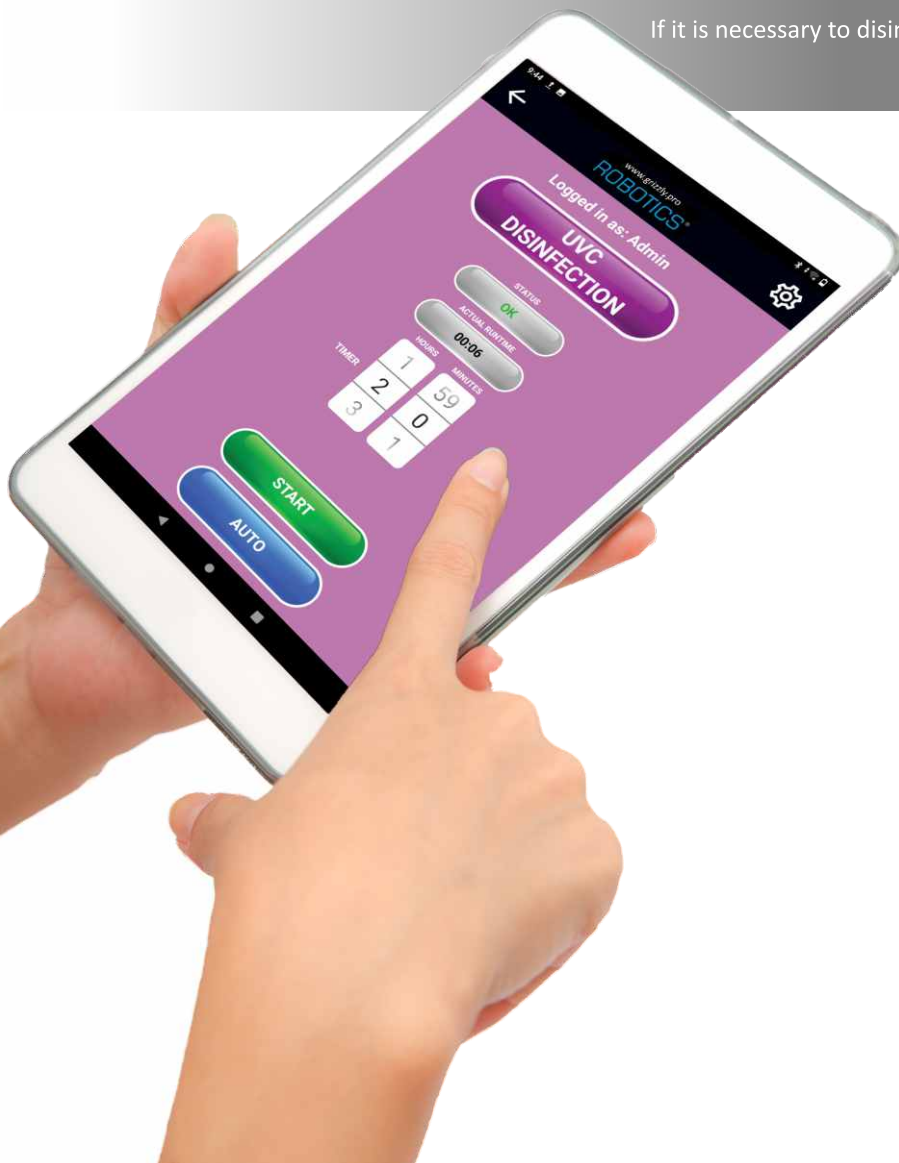
HISTORY OF DISINFECTION PROCESS

CTRA

TECHNOLOGY : 360° UVC EMITTER

-  Spectra infinity contains of high quality UVC bulbs from Philips or Osram. Medium wavelength is 253,7 nm (ozone free bulbs)
-  All UVC bulbs placed on outer side of the device are switched on during the disinfection mode. Disinfection at an angle of 360 degrees is provided due to the distribution of UVC bulbs around the body of device. The main advantage of this technology is the speed and the efficiency of the disinfection process.
-  4 infinity modules are placed on the top of the device. Lidar sensors, built-in the modules, calculate the size of the space and the necessary disinfection time within few seconds. The modules also contain sensors, that shut down the device in detection of movement.
-  Accredited studies have confirmed high efficiency of SPECTRA infinity. At a distance of 5 meters from the device it destroyed all the pathogens up to 99.9999% in 10 minutes.

The disadvantage of the technology is shaded area, where the beam of light does not reach. The disinfection in shaded areas is not achieved. For the space with multiple barriers, it is recommended, to move the device to other place and repeat the disinfection process. This practice minimises the undisinfected shaded areas. If it is necessary to disinfect the whole area, shaded areas included, it is possible to activate the corona core for the production of ozone.



ACCREDITATION CERTIFICATE

Validation report on testing
the antimicrobial efficacy










SPECTRA



SPECTRA

TECHNOLOGY : OZONE GENERATOR

-  Spectra Infinity has the highly effective ozone generating technology. The highly oxidating ozone is produced in the corona core and is shifted to the space with a built-in powerful fan.
-  Ozone as the gas penetrates to all spaces in disinfected area, including the fabrics, air-conditioning and places hardly reached by UVC light.
-  Spectra Infinity has a built-in ozone concentration sensor, which allows the setting of the required concentration in PPM. After the disinfection process, the residual value of ozone concentration can be measured.
-  The disinfection efficiency of Spectra Infinity by ozone is 99,999%
-  The technology has a great potential in medical facilities, where the entire disinfection of contaminated air and surfaces is required.

After the disinfection process (10 min. for 30m2) It is necessary to wait approximately 45 minutes until the residual ozone decompose back to molecule of oxygen. After this time it is possible to enter the area and to ventilate. The disinfection process is cost saving, and much more effective than common chemical disinfection by chlorine or alcohol. The average price of one disinfection is 50 cents.








ACCREDITATION CERTIFICATE

Validation report on testing
the antimicrobial efficacy





TECHNOLOGY : AIRFLOW UVC EMITTER

-  Spectra Infinity offers effective Airflow UVC emitter technology, which provides the air sterilisation in the presence of the people. The risk of airborne transmission is reduced to a minimum.
-  The device was developed to be usable continuously 24 hour a day.
-  Spectra Infinity in Airflow UVC mode is irreplaceable helper in the medical facilities and other areas with high fluctuance of people.
-  Accredited study has proved 99,999% efficiency of the air flow UVC mode in 20 minutes.
-  The infinity core, with UVC bulbs and powerful axial fan provides the efficiency of air flow UVC mode.

2 factors affects the efficiency of the air flow UVC technology:
1. UVC radiation output and quality of UVC bulbs
2. Airflow through the device

Spectra Infinity has the airflow control
Higher fan output = Higher noise level = Higher efficacy



ACCREDITATION CERTIFICATE

Validation report on testing
the antimicrobial efficacy





SPECTRA INFINITY

The most modern hybrid disinfection system designed for the medical facilities, defence and other professional using. The device is unique for its 3in1 most effective methods of chemical-free disinfection of surfaces, entire spaces and air.

Spectra Infinity is controlled by the detachable tablet in an application or manually by 3 smart buttons on the device. Each disinfection mode (or its combination) starts by using very user-friendly, intuitive application which allows entire monitoring of the device, history of disinfection processes and the users, and indicates the required service. The tablet has a wireless battery charging, when it is inserted into its docking station.

The device has self-control technology and in case of emergency (e.g. one of the UVC bulbs is broken), the device warns the user.

4 LIDAR infinity modules automatically calculate the time necessary for the disinfection process by direct UVC radiation in 360 degrees angle.

For improved protection, the safety motion sensors are built-in the infinity modules. The range of the safety motion sensors is up to 12 meters.

A powerful core is fitted inside the device, containing corona module for generation of ozone and UVC bulbs for airflow function.

Inner core produces 80 000 mg of ozone per hour. The ozone is shifted in the space by built-in fan with the output 1320 m³, which provides disinfection of the whole area including the shaded areas. The combination of direct UVC radiation and ozone is the only efficient disinfection method which is truly shadowless.

Technical parametres:

Open UVC system

Germicidal power of an open UVC emitter: 1760W

Light beam angle: 360 degrees

Type of fluorescent lamps used: Philips PL-L 55 2G11 or OSRAM HNS 55 2G11

Number of lamps for open UVC emitter: 32

High quality ballasts for long lifespan

Automated calculation of the disinfection time using LiDAR modules

Safety motion sensors for personnel protection

Airflow UVC system

Germicidal power of internal UVC emitter: 440W

Type of fluorescent lamps used: Philips PL-L 55 2G11 or OSRAM HNS 55 2G11

Number of pieces for open UVC emitter: 8

High quality ballasts for long lifespan

Fan: SPAL with an output of 1,320 m³/h

OZONE disinfection system

Ozone generator power: 80.000mg / h (80g / h)

Number of ceramic ozone plates: 16

Lifespan: approx. 8,000 hours

Fan: SPAL with a capacity of 1,320 m³/h

Built-in sensor for

Built-in sensor for ozone concentration measurement



SPECTRA INFINITY DESCRIPTION

INFINITY CORE

4x MOTION SAFETY SENZOR

4X LiDAR FOR AUTO MEASUREMENT

HIGH QUALITY UVC BULBS

FULL STAINLESS STEEL BODY

TABLET FOR REMOTE CONTROL

TABLET HOLDER WITH WIRELESS CHARGER

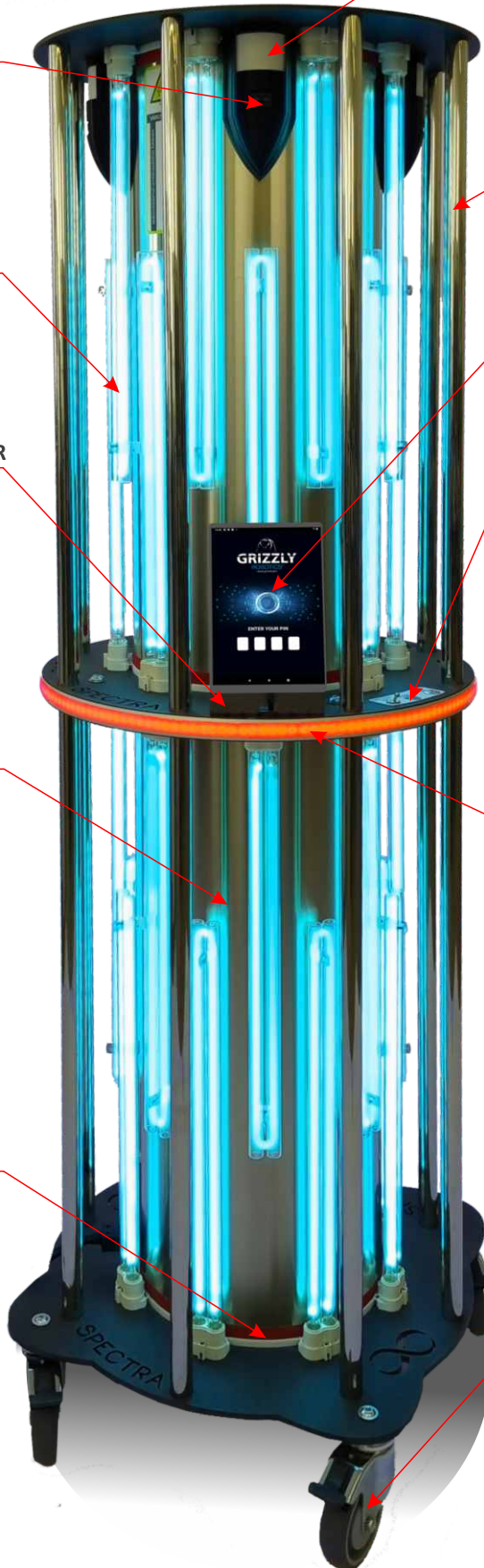
SMART AUTOSTART BUTTONS

INFINITY SMART CORE

RGBW LED STRIP (MODE COLOR)

HIGH PERFORMANCE FAN

4X WHEELS WITH BRAKE







i n f i n i t y

