eliptig

UVC SMART STERILISATION

"KILLS VRUSES WITH NO CHEMICALS, NO RESIDUE, NO TOUCH & NO HUMAN ERROR"

MADE IN BRITAIN

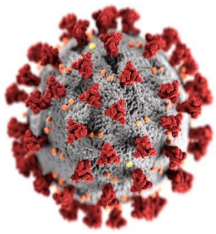
ISO 13485:2016

CE

BLUESKY LASER TECHNOLOGIES LTD

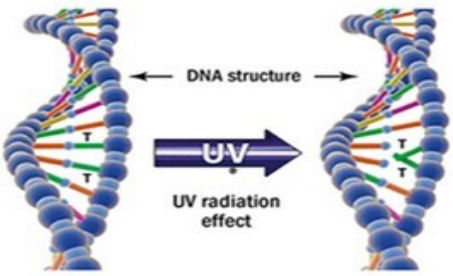
The 2020 Pandemic

COVID -19 has had an unprecedented impact on modern life across the globe. Tragically communities have experienced large numbers of deaths and serious illness impacting on the lives of families leaving them changed forever. Everyday life has experienced changes and controls unimaginable prior to 2020. The impact on regional and global economies has been catastrophic leading to unemployment and financial hardship that has touched a large subset of society.



Leading Scientists across the globe are pursuing vaccines that will reduce the impact of COVID-19 on human health. However, society will return to a "new normal" never again will a virus be dismissed as a minor irritation. This invisible enemy has changed the world we live in forever.

Disinfection and sterilisation will become part of the "new norm". There are many technologies and methodologies that can be adopted, not one of these is the panacea and perfect solution for all scenarios.



UV-C is one platform technology which has a major role to play. Light at a wavelength of 254nm has been shown to render COVID-19 inactive and unable to multiply. CDC's recently published guidelines http://www.iuva.org/iuva-covid-19-faq dosage value for viruses comparable to COVID-19 in the same SARS virus family are quantified as 10-20mJ/cm^2 at a wavelength of 254 nm. CDC's guidelines recognise that this dosage achieves 99.9% disinfection (i.e. inactivation) under controlled laboratory conditions. UV-C light penetrates through the cell wall and disrupts the structure of the DNA prohibiting reproduction.

Sterilisation times

Small room (4m x 3m) - 3 mins

Medium room (6m x 4m) - 5 mins

Large room (8m x 8m) - 10 mins

Eliptig UV-C sterilisation is achieved with

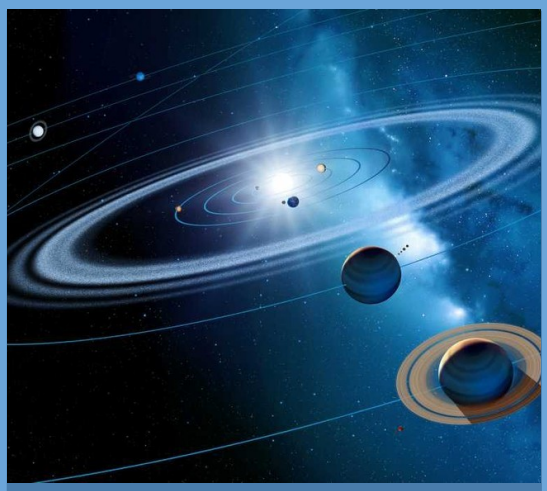
- No chemicals
- No residue
- No touch
- No human error

The disadvantage of UV-C is two fold, firstly it is advisable that no operator is present in the environment when the UV-C sterilisation process is underway. Secondly, with traditional design, significant shadows reduce the direct illumination of certain surfaces by the light.

Eliptig has been designed to minimise these shadows. The eliptig-S has an elliptical UV-C lamp configuration leading to asymmetrical illumination and consequent shadow reduction. Elitpig-R rotates the optical head which is also elevated throughout the space during the sterilisation process, further minimising shadowing.

Applications of eliptig are virtually ubiquitous. Product design, in terms of effectiveness, efficiency and utility is challenging when the device is to be used in so many different contexts. Care has been taken in the design process to ensure that the system sterilises spaces and surfaces efficiently and safely.

Eliptig has been designed by a team with a proven track record of ideation, IP, proof of concept, clinical validation, regulation, design for manufacture, management of onshore and offshore manufacturing and the coordination of international distributor networks. Experience has taught the need to cocreate solutions in dialogue with all stakeholders particularly the end user.



Patented Technology

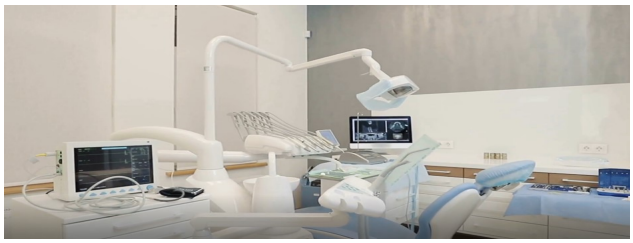
UVC kills viruses, that is an absolute established scientific fact. The goal is to get sufficient light to the virus safely. The virus is then rendered unable to reproduce. The limitation of UVC is line of sight access to shadows.

Eliptig is based on patented platform technology designed to minimise shadows.

Eliptig is a SMART device, designed for efficient, efficacious and safe operation giving confidence to all stakeholders that the environment is virus free.

Hospitality

Hospitality is a vast global industry with over 700,000 hotels around the World. The sector contributes $3.41 trillion to the global economy and the hotel industry alone generating $570 billion per annum. Hospitality invariably features a customer occupying a space previously occupied by another unknown and unrelated individual and in the context of the pandemic that previous individual could in principle could have been COVID positive. This dynamic has brought the hospitality industry to its knees during the pandemic period.



Healthcare

The global healthcare market reached a value of $8.5 trillion and is estimated to grow to $11.9 trillion by 2022. The pandemic has introduced challenges for the sector, some of which are beyond simply treating COVID patients. Environments have to be deep cleaned and sterilised between procedures, this introduces increased cost, inefficiencies and leads to extended waiting times when treatment is desperately needed.

Office Buildings

COVID is likely to bring structural changes to the commercial property market for years to come. The impact is currently negative for the retail and office sector but positive for logistics where housing and industries related to e-Commerce. The shift in office based culture due to the pandemic is denting valuations of office buildings and rents. Theses trends are expected to continue for two further years. Architects, developers, pension and other investors are grappling with ideas, a solution is desperately needed.

eliptig Provides the solution to all!

Technical Specifications

Operational Features

- Mobile device to disinfect and sterilise
- Wavelength 254nm
- Elliptical profile to eliminate shadows
- Optical field designed to ensure sterilisation of floor and ceiling
- 360° Passive Infrared Motion detection
- IOS or Android App (with WiFi/Bluetooth option) to receive location input and record date, time, place and supply required reporting in desired format
- Eight Shatterproof FET covered Quartz glass germicidal UVC lamps with waterproof IP67 end caps
- Stainless steel housing with specialised, thin film (employing non degrading protective layer) lightweight UVC reflectors with 4 locking caster wheels

Dimensions

- Elliptical profile 10in x 14in - (0.25m x 0.36m)
- Height: 5” - (1.524m)
- Base L31.5”, W16” - (0.8m x 0.4m) designed to pass long narrow aisles in transportation systems

Weight

- 55 lbs (25kg) designed to meet UK and European Health & Safety Directive regarding the weight a man should be expected to lift at work

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