



Multi-Use Portable Disinfection Unit



OTSAW

**Welcome to the world of Robotics and
Artificial Intelligence with OTSAW.**

otsaw.com



Version: TR 2022-09

TreX

TreX is the world's first portable UV-C LED disinfection device to be time & cost efficient, environmentally friendly, built to disinfect confined areas.

TreX can go where other robots can't. With a compact size and wheeled chassis, TreX is designed as an efficient, portable disinfection unit.



UV-C LED
Technology



99.9%
Disinfection Rate



Mercury
Free

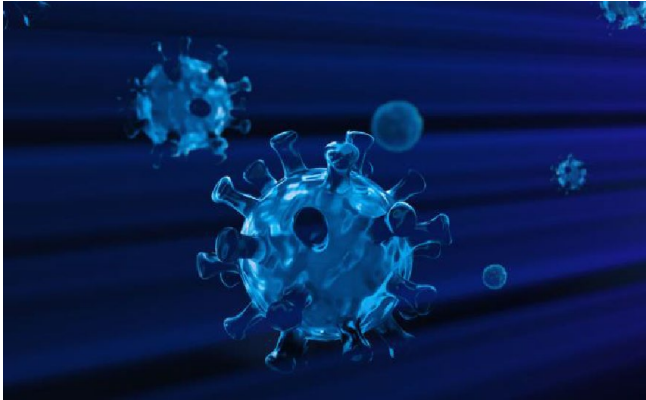


Lab-tested
against human
Coronavirus



99.9% DISINFECTION EFFICACY

TreX Key Features



Effective Disinfection

- OTSAW's patented UV-C technology ensures 99.9% efficacy within 5 minutes at a range of 2.5 meters
- Disinfects bacteria and viruses in the air and on surfaces



Storage and Portability

- Portable and compact in size
- Wheel to bathrooms, hotel rooms, kitchen areas, and other areas as needed



Public Confidence

Ensure public confidence in patrons, customers or guests, feeling safer knowing that the venues are taking additional steps in the disinfection process.

TreX Specs

- **UV-C LED**

Disinfects confined spaces such as offices, lavatories, bars, kitchen and service galleries

- **Compact Size**

TreX measures 30x30x100cm and weighs only 30kg

- **Easy Operation**

Pre-set disinfection timer with motion detection sensor for safety

- Remote access to switch the module on and off



Throughout the pandemic, much importance has been placed on washing and disinfecting our hands, as a measure of stopping the spread of coronavirus.

But what about our everyday environments?

Our offices, living spaces, shopping malls and even the air in our indoor spaces? It is not practical, sustainable or scalable to regularly disinfect all these surfaces and spaces.

TreX and OTSAW's UV-C LED technology is the next evolution to *sanitize our environments.*





Intuitive Interface

Touch screen interface with preset disinfection times for fast and simple setup

UV-C LED Test Results

OTSAW's U-VC modules have been lab tested to prove 99.9% efficacy within a 2.5 meter range.



TEST REPORT: 7191238316-CHM20-01-RC

09 JUN 2020



PSB Singapore

RESULTS

Product : UV-C Module from OTSAW O-RX UV-C LED Disinfection Robot
Test Microorganism : *Escherichia coli* (ATCC 8739)

Test Condition	Distance	Timing	Mean Untreated Count (CFU)	Mean Treated Count (CFU)	Reduction Percentage (%)
1	2.5 meter	10 minutes	1 000 000	Less than 10	More than 99.999
2	2.5 meter	20 minutes		Less than 10	More than 99.999
3	2.5 meter	30 minutes		Less than 10	More than 99.999
4	2.0 meter	10 minutes		Less than 10	More than 99.999

Remarks :

The above test results relate to the sample as received.



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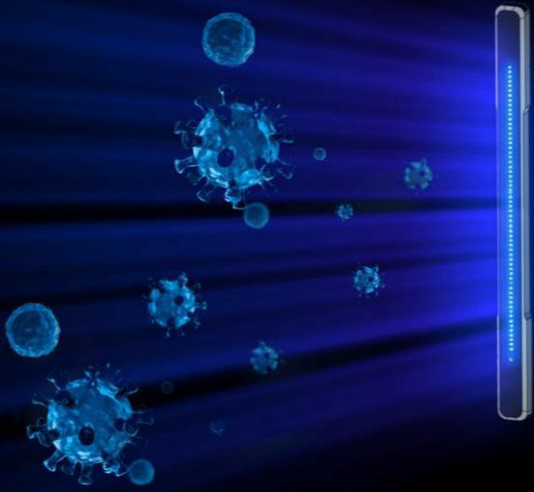
MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS

The OTSAW Disinfection Ecosystem

Lab-tested
against human
Coronavirus



99.9% DISINFECTION EFFICACY



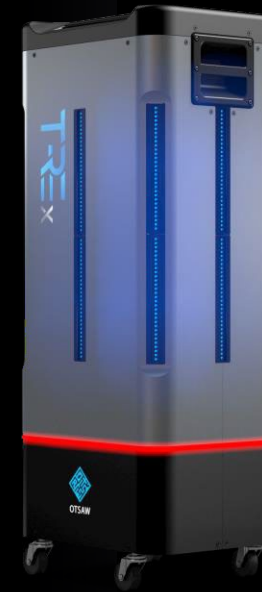
AirGuard

For Disinfection of Air
Fixed installation within HVAC Systems



QR_x

For Fully Autonomous Disinfection
UV-C LED Mobile Robot



TRe_x

Multi-use Portable Disinfection
Easy to deploy to confined spaces

Integration in the UV-C Disinfection Ecosystem

See how TREX can work along with
AirGuard and O-RX to create a
comprehensive disinfection
solution for a variety of use cases:

Retail & Shopping Malls



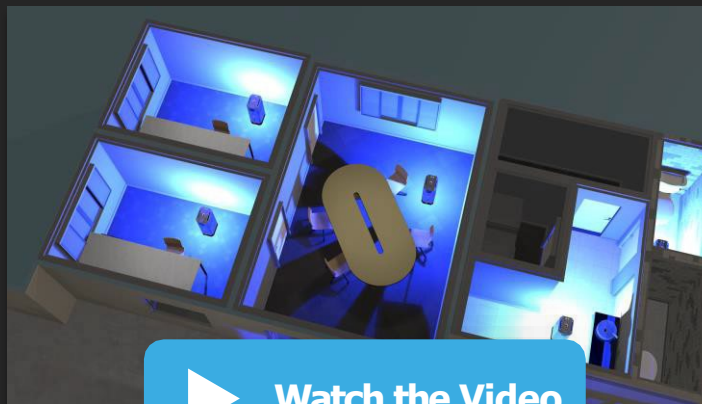
[▶ Watch the Video](#)

Hotels & Hospitality



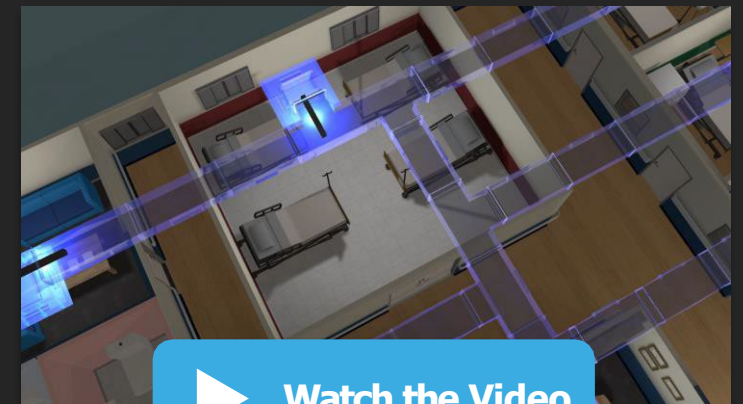
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Office & Workspaces



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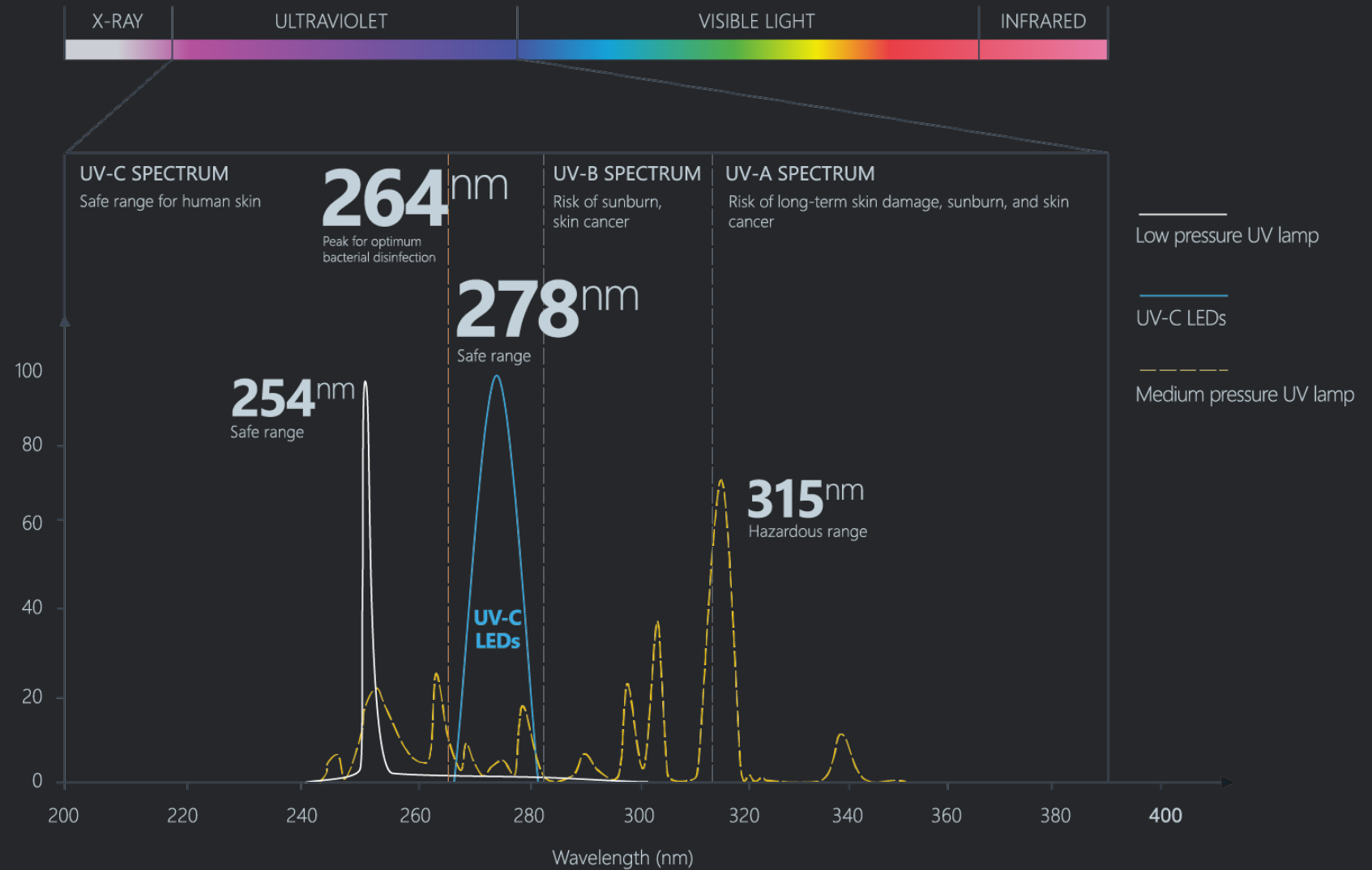
Hospital & Healthcare



[▶ Watch the Video](#)

UV-C LED Advantage

- Long range and controllable disinfection direction
- Non-hazardous material – does not contain mercury vapor, unlike conventional UV Lamps
- Mercury Free: mercury is a banned substance in most industries
- Low power consumption and long lasting LED lamps
- Life span of LED >3 years
- Durable LED strips





UV-C LEDs vs UV Mercury Lamps

Ultraviolet germicidal irradiation (UVGI) is a cost- effective and practical method of inactivating viruses and bacteria.

Existing high-power UVGI systems use UV lamps for large-scale disinfection.

UV-C LED holds many advantages over conventional UV lamps in efficiency, efficacy, safety and in environmental concerns.

Characteristic	UV-C LEDs	UV Lamps
Safe against human skin	✓ Within safe UV-C range	✗ Range overlaps UV-A, UV-B & UV-C
Power consumption	✓ Approx 300W	✗ Approx 1000W
Size	✓ Compact	✗ Bulky
Time to reach full brightness	✓ Instantaneous	✗ 1 - 15 minutes warm-up
Irradiance	✓ 8.6 uW/cm ²	✗ 3 uW/cm ²
Angle	✓ Directional	✗ Omnidirectional
Lifespan	✓ 3 years	✗ 1 year
Operating hours	✓ 5 hours	✗ 2.5 hours
Mercury content	✓ None (Environmentally friendly)	✗ Contains mercury (Environmentally hazardous)
Voltage operation	✓ Low voltage operation	✗ High voltage operation
Maintenance	✓ Maintenance-free	✗ Requires bulb replacement and routine cleaning
Ozone production	✓ Zero. Safe for humans	✗ Produces ozone, hazardous to respiratory tract
Durability	✓ Durable and solid construction	✗ Fragile and dangerous



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