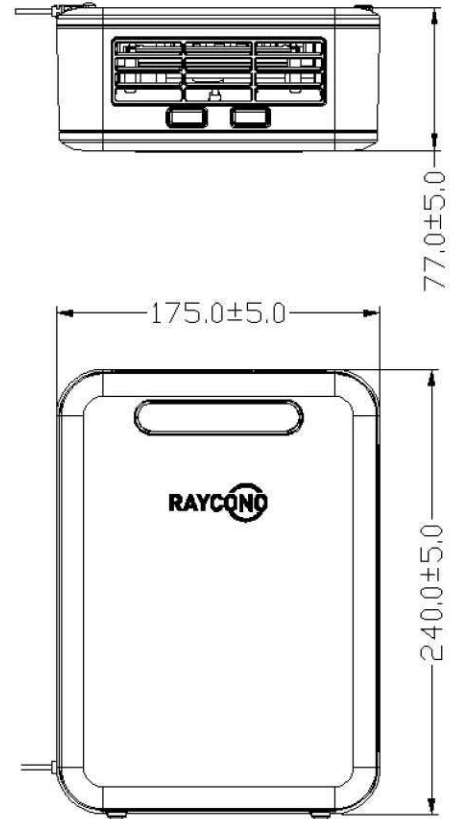


## RAYCONO triliros Air Sterilizer



### Product Dimensions

-Unit: mm



### RC200

- Quiet at work
- Multiple working modes
- Fashionable and comfortable design
- Mobile
- Low energy consumption

### Specification

Model	Input voltagez		Rated Power (w)	Air Volume (m <sup>3</sup> /h)	Effective area (m <sup>2</sup> )	Noise (dB)	Sterilization rate	Product dimensions (mm)	Packing dimensions (mm)	Net weight (kg)
	AC	DC								
RC-AS300	100-240Vac 50/60Hz	12Vdc	15	80	10-18	<50	99.9%	240*175*77	320*213*116	1.0

Note: The value of air volume, power consumption and noise are specified at static pressure 0 Pa.

The value of air volume is the max value and a tolerance of  $\pm 10\%$  is allowed

The value of noise level is A weight average sound pressure level, the mean value is measured by our company.

A tolerance of +3dB/-7dB is allowed.

The noise is measured at 1m apart from the left, the front and the below of the product.

Disclaimer:

Triliros inhibit activity or growth of viruses but do not prevent infection.

Individual results may vary based on usage, and environmental variables (temperature and humidity).



Raycono triliros series air sterilizers, which are based on the air cleaning technology of the International Space Station (NASA), are jointly developed by Angel Porgador, a world-renowned immunologist and the president of Israel Immunological Society, and Raycono's R&D team. As the advanced triliros patented technology greatly improves the air disinfection and purification ability, they are a new generation of air sterilizers that can realize man-machine coexistence. Applicable to all indoor scenarios such as home space, commercial space, public space and industrial space, they can effectively remove formaldehyde and dust in indoor environment, and efficiently kill harmful elements such as viruses and bacteria. It has been monitored and verified by international authorities such as SGS **that the sterilization rate can reach up to 99.99%**. As a result, the indoor air can receive long-lasting sterilization and purification, which effectively guarantees the sanitation and cleanliness of indoor air.

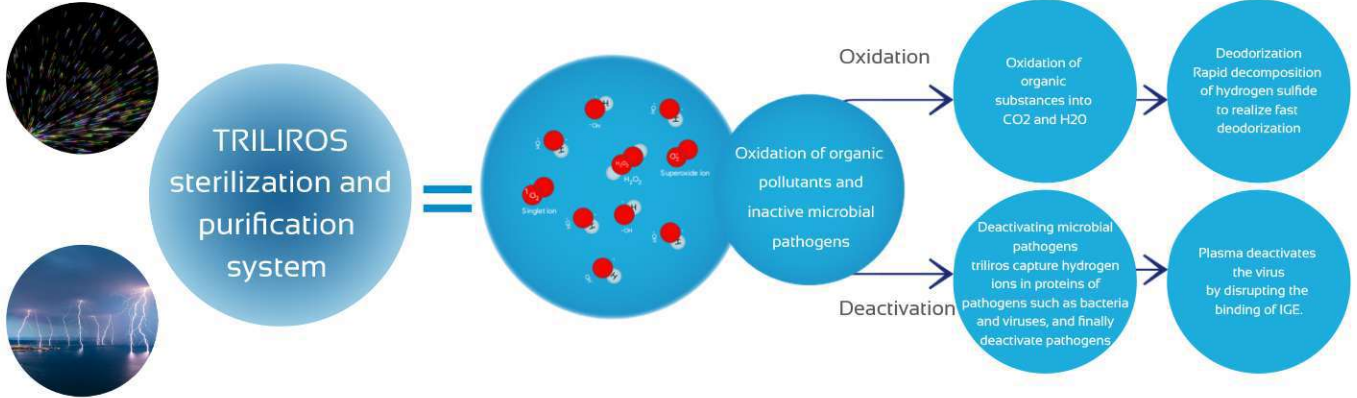
RC-AS300 is a quiet highly efficient and modern air sterilizer. It can be applied to cars, homes and offices to achieve maximum purification and provide you with a safe and cozy living environment.



## Mechanism of Raycono triliros

triliros :  
Trillions of iROS (integrated Reactive Oxygen Species)

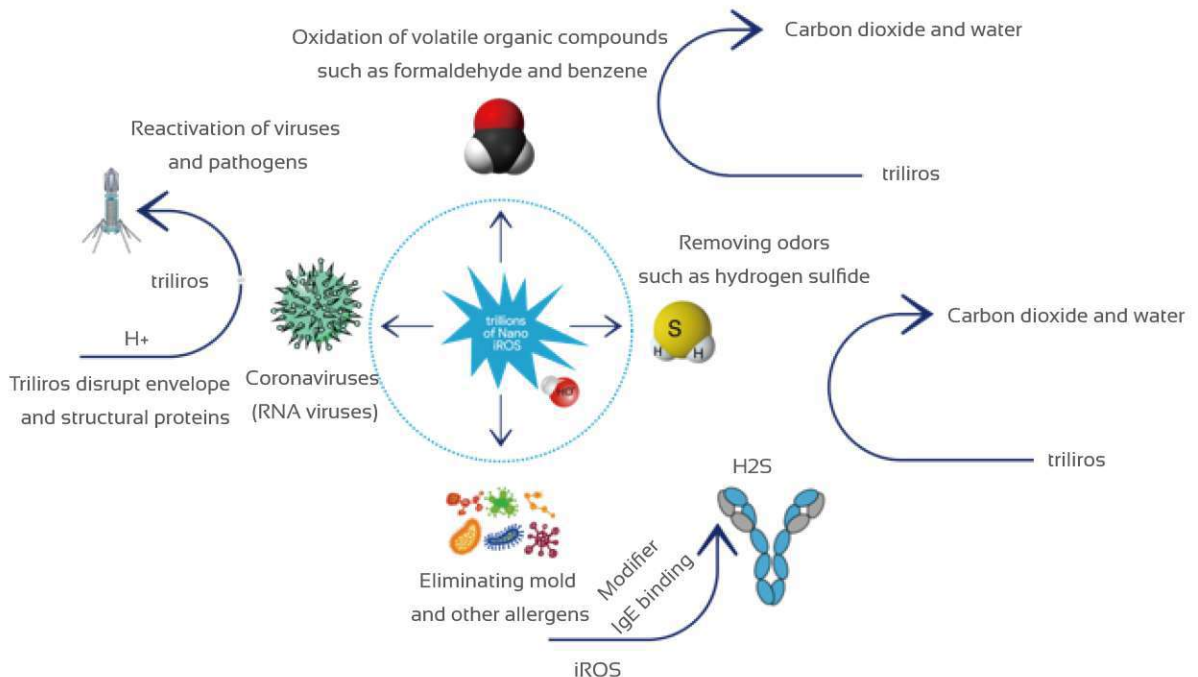
ROS triggered by photons



Coronal discharge of ceramic Peltier effect

## Working principle of Raycono triliros

Our triliros device generates trillions of ROS every second. Those ROS disrupts envelope/capsid /RNA/DNA /protein of virus. These hydroxyl radicals also instantly attack carbon based, organic molecules, breaking apart their chemical bonds, deodorizing smells, instantly decomposing them and simply leaving water and carbon dioxide.



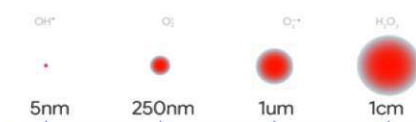
### Nanometer size of substances

Protein virus bacteria macrophage Daphnia baseball



### Relative diffusion range of triliros

Hydroxyl singlet oxygen superoxide hydrogen peroxide



## Introduction to Raycono triliros Features

Raycono air sterilizer converts protein of virus to decompose bacteria and virus through advanced triliros technology. It is a safe, fast sterilizer, able to be used for air and surface sterilization, dust removal and deodorization.

Triliros patented technology is under the leadership of Dr. Angel Porgador, a world-famous immunologist, Raycono developed the patented technology of triliros sterilization and purification and successfully put it into application. Meanwhile, various critical toxicological verifications were completed. Raycono obtained stringent accreditation from top international biological laboratories (INNOVATIVE BIOANALYSIS) again with preeminent performance as usual.

<p><b>A</b></p> <p>Deactivating virus and microbial pathogens</p>	<p><b>B</b></p> <p>Deodorizing odors and smells</p>	<p><b>C</b></p> <p>Redoxing to remove VOCs such as Benzene and formaldehyde from shampoo, detergent, and kitchen gas</p>	<p><b>D</b></p> <p>Eliminating allergenic from pets dander</p>
<p><b>Extensive sterilization</b></p> <p>It works on almost all pollutants</p>	<p><b>Practical sterilization</b></p> <p>High efficiency, energy saving and no need of consuming materials</p>	<p><b>Thorough sterilization</b></p> <p>Decomposition instead of filtering</p>	<p><b>Safe sterilization</b></p> <p>The final products of purification are harmless substances such as carbon dioxide and water</p>

## Testing reports

COVID-19 tested by Innovative Bioanalysis in the United States, **it shows that the sterilization efficiency in 30 minutes is 99.99%.**

**INNOVATIVE BIOANALYSIS**  
creating solutions | getting results  
Efficacy Study Summary

**Study Title:** SARS-CoV-2 USA-CAL/2020 PATHOGEN AIR PASSION RC-A3300™

**Laboratory Project #:** 1080

**Guidelines:** Modified ISO standards and no international standard exist.

**Testing Facility:** Innovative Bioanalysis, Inc.

**Study Details:**

**Study Initiation Date:** 5/8/2021

**Study Completion Date:** 6/7/2021

**ISO Compliance:** All Internal SOPs and processes follow ISO guidelines and recommendations.

**Test Substance:** SARS-CoV-2 USA-CAL/2020

**Description:** An in vitro study to determine the efficacy of the Raycono RC-A3300™ against the known pathogen SARS-CoV-2.

**Test Conditions:** The test was conducted in a sealed, certified, and certified ISO laboratory, which maintained negative pressure greater than 12.00 Pa. The temperature during the test was approximately 71°F (21°C), with a relative humidity of 38%. Air samples are collected every 10 minutes by the manufacturer on September 3, 2020, and set in a standard flow of 500 L/min. The duration of the test was 30 minutes. The nebulator was filled with the same amount of virus stock (8.32 x 10<sup>7</sup> TCID50 per mL) in PBS buffer into results.

**Test Results:** Active SARS-CoV-2 was not detected in the air after 30 minutes of the unit operating. Since results were below the 100 TCID50 per liter of air, these results are equivalent to a 4-log reduction compared to the control units. These results equate to a 99.99% reduction of the active pathogen in the air in a sealed environment with the Raycono RC-A3300™ system operating.

**Control Results:** A virus stock of SARS-CoV-2 USA-CAL/2020 with a concentration of 8.32 x 10<sup>7</sup> TCID50/L was used for the experiment. After 30 minutes, the concentration of SARS-CoV-2 USA-CAL/2020 was 8.32 x 10<sup>7</sup>.

**Conclusion:** The Raycono RC-A3300™ demonstrated the ability to reduce the concentration of the active pathogen SARS-CoV-2 from the air in a small, sealed environment.

Innovative Bioanalysis, Inc. RAYCONO RC-A3300™ AEROSOL V1.0 Page 9 of 18

**INNOVATIVE BIOANALYSIS**  
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Study Report

**Study Title:** SARS-CoV-2 USA-CAL/2020 PATHOGEN AIR RAYCONO RC-A3300™

**Sponsor:** Argenti, Ltd.

**Test Facility:** Innovative Bioanalysis, Inc. 3168 Arroyo Ave. Suite D, Costa Mesa, CA 92626

**Device Testing:** Testing the efficacy of the Raycono RC-A3300™ system against a known pathogen, SARS-CoV-2.

**Study Report Date:** 6/7/2021

**Experimental Start Date:** 5/8/2021

**Experimental End Date:** 6/7/2021

**Study Completion Date:** 6/7/2021

**Study Objective:** This in vitro study was designed to determine the efficacy of the Raycono RC-A3300™ system against the airborne transmission of the known pathogen SARS-CoV-2. The Raycono RC-A3300™ system is designed to be placed in a vehicle to decrease the spread of pathogens.

**Test Method:**

**Bioassay Generation:**

For the control and the virus challenges, the nebulator was filled with the same amount of virus stock (8.32 x 10<sup>7</sup> TCID50 per mL) in PBS buffer into media. The solution was reduced to a final volume of 100 mL. The nebulator was driven by untreated local atmospheric air. After each completion, the nebulator's remaining virus stock volume was weighed to confirm that the same amount of virus stock was nebulized.

**Bioassay Sampling:**

For all sampling, one 500 mL programmable vacuum filter was used. The manufacturer collected the air samples in September 2020, and the participants were inspected prior to use. Air sample volume collection was performed prior to use with a 500 mL flow rate (200700 L) and a high flow bubble generator (500000 L). The air sample was captured in conjunction with a membrane-based cassette, which was manually removed after each challenge time point. The cassette had a delicate internal filtration disc to collect virus particles.

**Test System Details:** SARS-CoV-2

The following support was provided by the Center for Disease Control and Prevention and obtained through 801 Resources, MAAD, New SARS-Related Coronavirus 2, isolate USA-CAL/2020, NR-92382.

\*The viral titer data in the Certificate of Analysis is representative of the titer analyzed by Axi Research. These viruses are grown on VeroE6 cells after infection of a partner lab to the concentrations listed within the certificate design.

Innovative Bioanalysis, Inc. RAYCONO RC-A3300™ AEROSOL V1.0 Page 4 of 13

**INNOVATIVE BIOANALYSIS**  
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Study Results

**SARS-CoV-2 USA-CAL/2020**



Time (min)	Concentration	Log Reduction
0	8.32E+07	0
30	~0	~7.9

\*As it pertains to data represented herein, the value of 3.2E+02 indicates a titer that is lower than the specified limit of quantitation. The limit of quantitation for this assay is 1.2E+03.

\*\*As it pertains to data represented herein, the percentage error equates to an average of 0.5% of the final concentration.

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