



Viruses



Bacteria



Mold



Odors



Dust



Pollen



Smoke, TVOC



Dander

Features

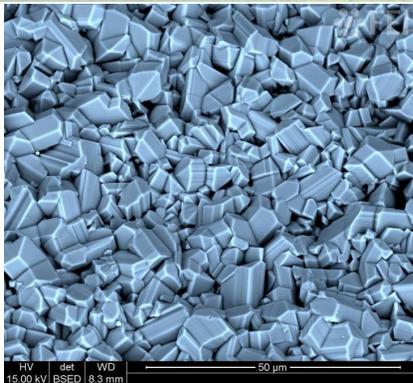
- Decompose bacteria, virus and odor with strong oxidizing power with photocatalytic effect
- Acetaldehyde (main ingredient such as tobacco, human body sweat, pet odor etc.) is strongly resolved
- Built-in high power UV-C light source for prompt and effective biochemical reaction
- Built-in negative ion generator for fresh air
- A compact housing adopting nano technology PuriCleanAir filter is simple and high quality design
- Silver Nanoparticles - high efficiency Anti-bacterial & chemical decomposition
- Enclosure design suitable for use in passenger cars, toilets, closets, shoe boxes, etc.

Specifications

| | |
|-----------------------|--|
| Dimension Size | 145 x 89 x 42mm |
| UVC LED inside | 278nm, 10mW |
| PCO filter | TTA: TiO ₂ , + Silver Nanoparticles |
| Negative ionizer | Yes |
| Sterilization rate | 99% @ 1m ³ , 2hrs |
| Decomposition rate | 99% @ 1m ³ , 24hrs(Formaldehyde) |
| Control Mode | Push button, 2 speed H/L |
| Power Supply | Micro USB Plug |
| Power voltage | 5 V |
| Power Consumption | <300 mA |
| Operating temp. range | -20°C to 60°C |
| Weight | 0.27Kg |



PuriCleanAir® Mohe Box



Nano TiO₂ photocatalyst

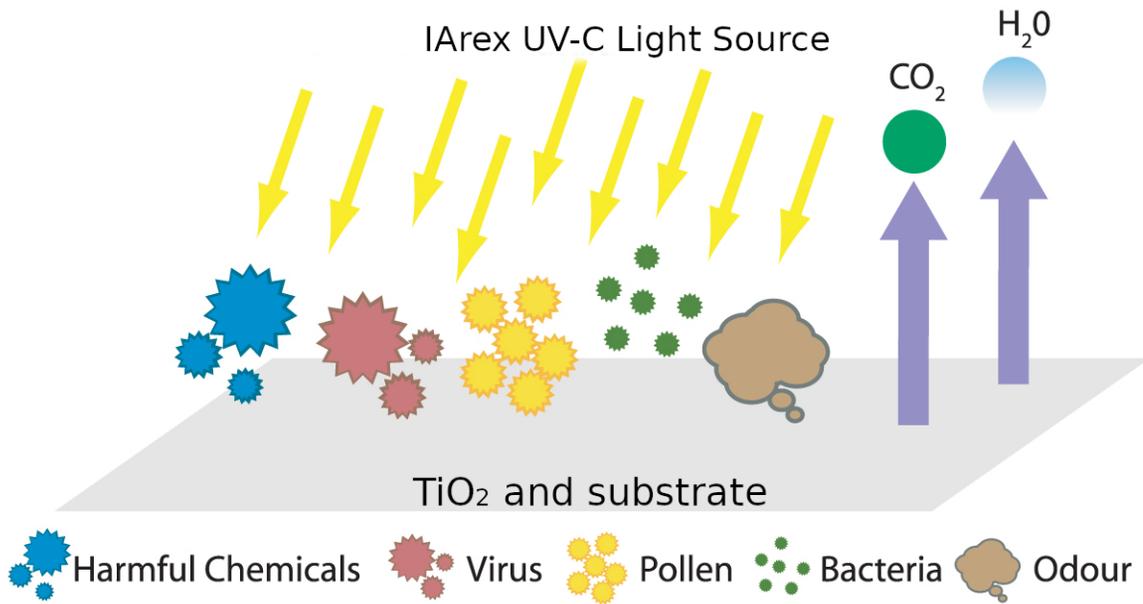
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PHOTONICS INNOVATION

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PURICLEANAIR®

Decompose bacteria, virus and odor with strong oxidizing power with photocatalytic effect



Simplified PuriCleanAir® Mohe Box reaction scheme

What do it work?

This PuriCleanAir Mohe box consists of negative ion generator, UV-C light source, proactive nano material, micro fan, air filter and driving/control units. The micro-fan (also called a turbo fan) inside the machine circulates the air that passes through the UV-C light, nano PuriCleanAir filter and mixed with negative ion all at the same time. The bacteria, viruses and TVOCs etc were killed, reduced or neutralized inside the box and hence refreshed air is generated.

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Micro-USB

What is PCO

Photocatalytic oxidation (PCO) is regarded as one of the most promising methods and has been the focus of many research works in the last two decades. Titanium dioxide (TiO₂) is by far the most investigated photocatalyst for photocatalytic degradation of gaseous VOCs (volatile organic compounds).

The Process of Photocatalyst Action

