Ultraviolet Rays Disinfection Module for Ventilation System

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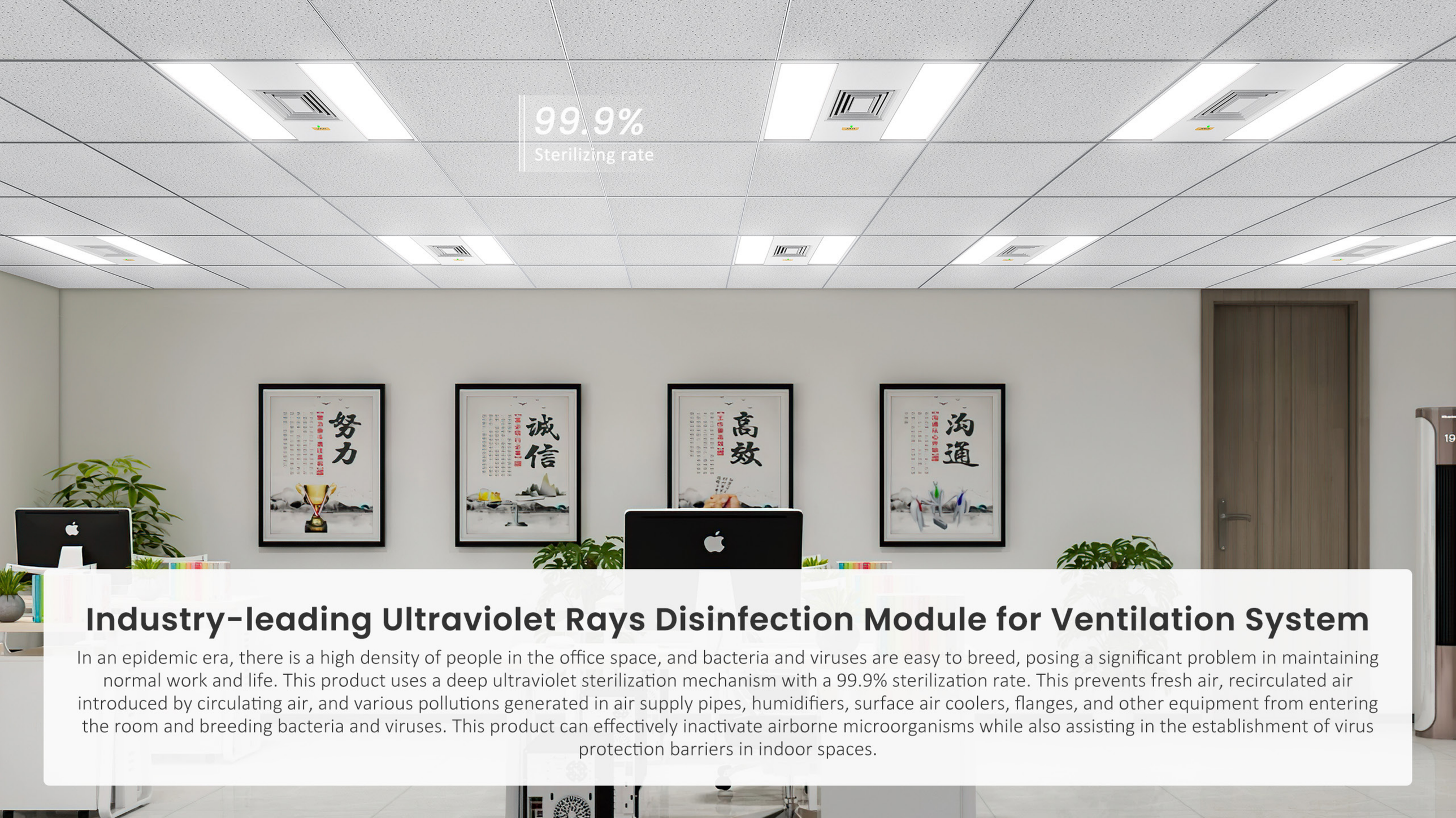


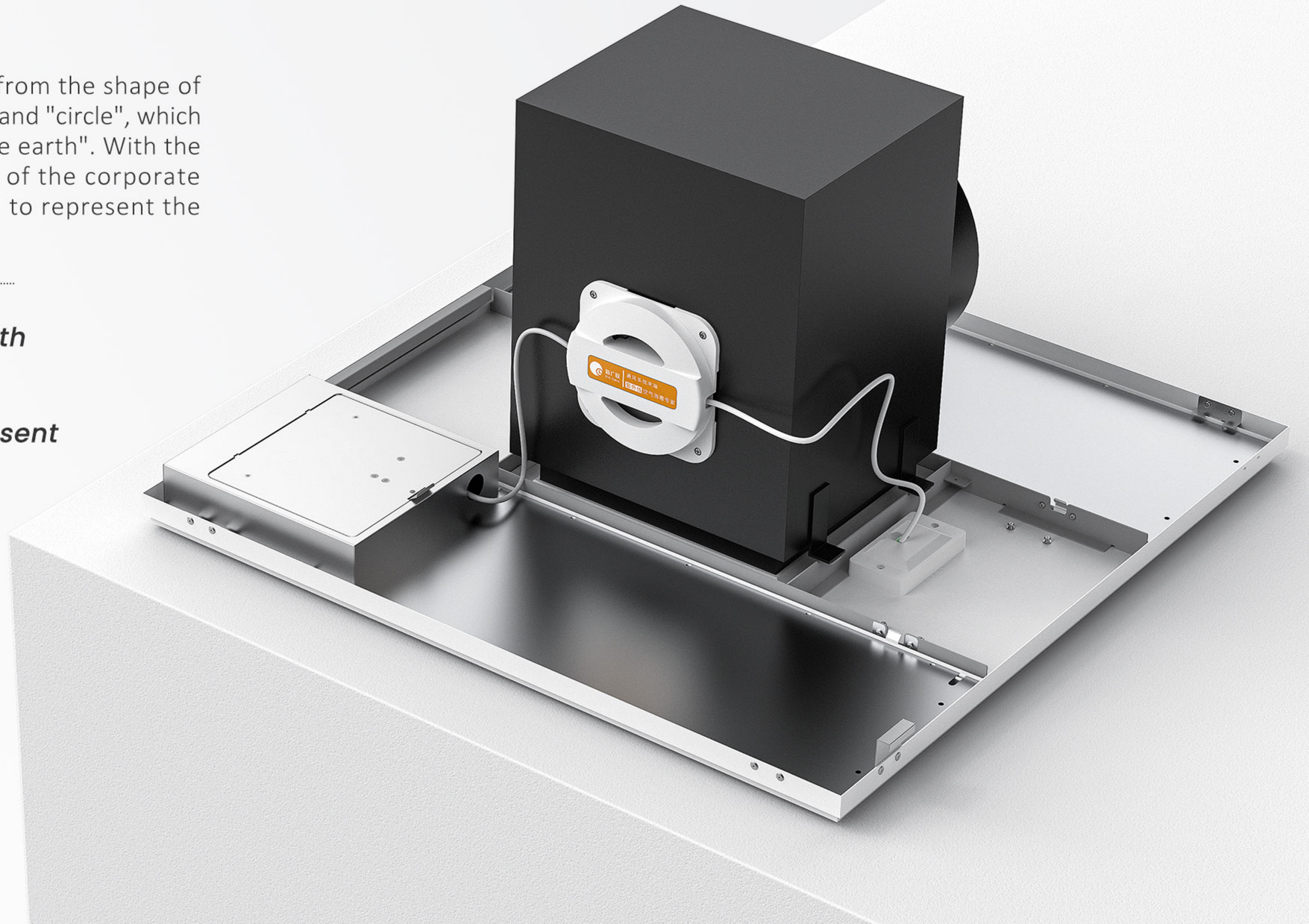
Industry-leading Ultraviolet Rays Disinfection Module for Ventilation System

In an epidemic era, there is a high density of people in the office space, and bacteria and viruses are easy to breed, posing a significant problem in maintaining normal work and life. This product uses a deep ultraviolet sterilization mechanism with a 99.9% sterilization rate. This prevents fresh air, recirculated air introduced by circulating air, and various pollutions generated in air supply pipes, humidifiers, surface air coolers, flanges, and other equipment from entering the room and breeding bacteria and viruses. This product can effectively inactivate airborne microorganisms while also assisting in the establishment of virus protection barriers in indoor spaces.

Design Inspiration

The design inspiration of this product comes from the shape of heaven and earth, the combination of "square" and "circle", which contains the meaning of "round sky and square earth". With the goal of reflecting the corporate connotation of the corporate culture, the color Populus euphratica is used to represent the spirit of tenacious vitality.

- ***Chinese philosophy of a square earth with a round sky above***
- ***Populus euphratica is used to represent the spirit of tenacious vitality***

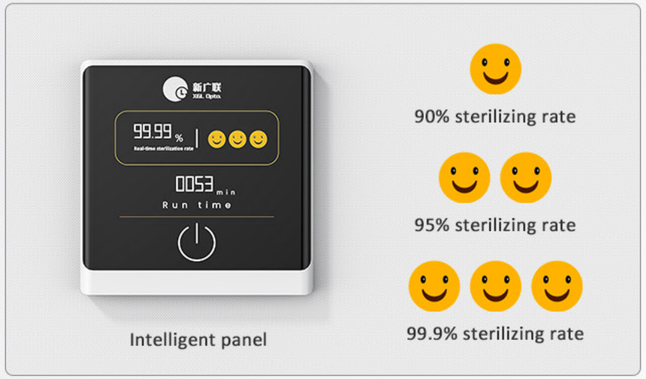


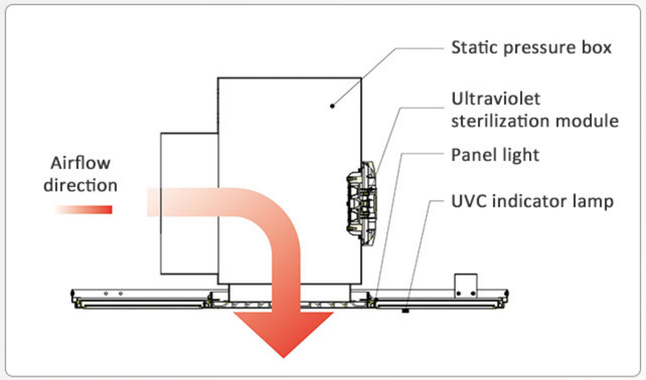
Excellent Craftsmanship and Materials Empower the Product

The overall appearance is combined with "ivory white" and "Populus euphratica." The white plastic surface has a fine sand and sun-patterned texture, and the label with a Populus euphratica color scheme has a glossy finish. It adds visual vitality, highlights brand information, and strengthens brand image.

Utilization of a Novel Light Source, UVC-LED

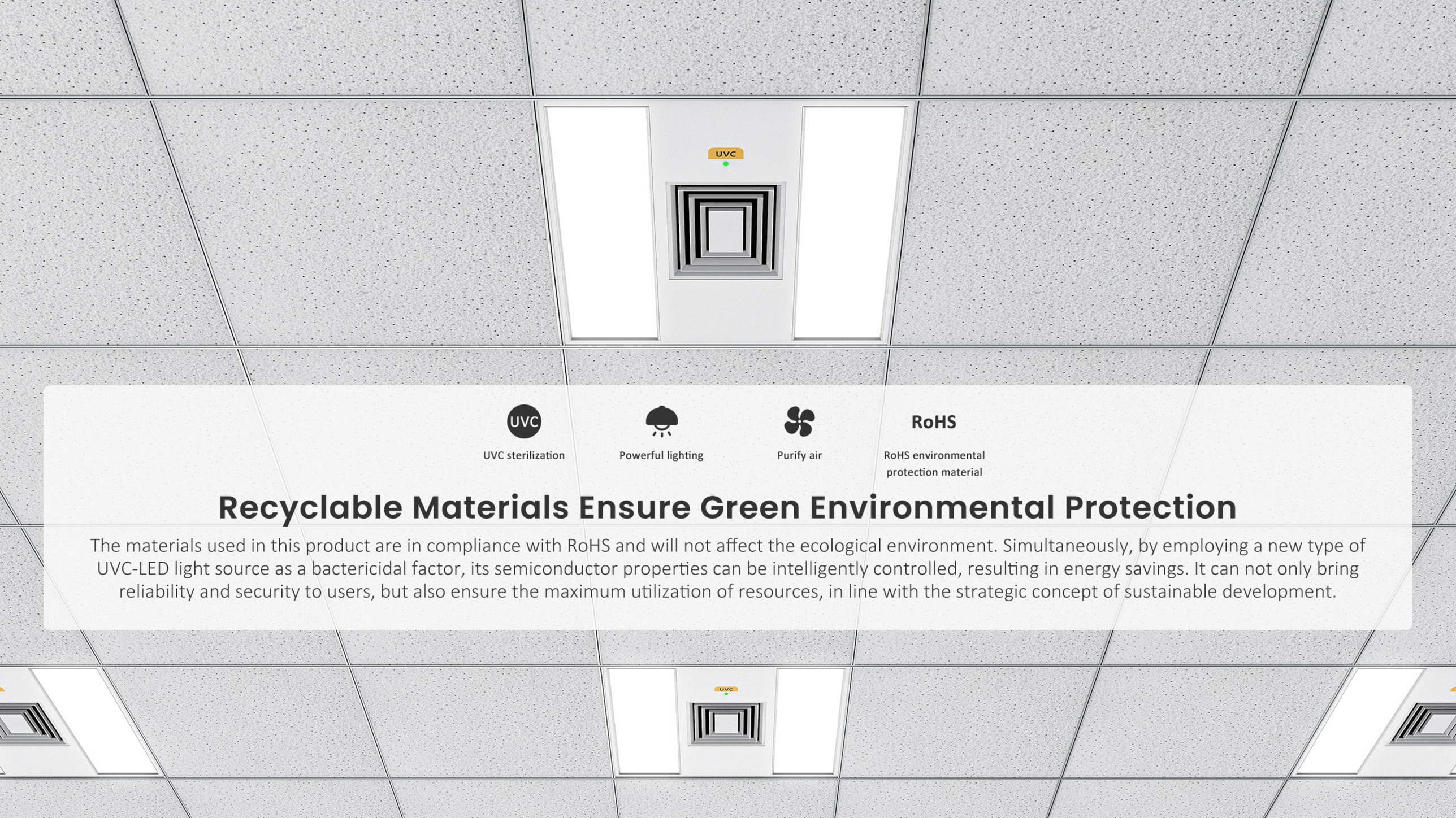
Based on the advantages of the new light source UVC-ease LED's of integration with the control system, energy savings, and environmental protection, this product has carried out related design and innovation.Furthermore, high-efficiency utilization of ultraviolet dose is realized through precise light distribution, establishment of mathematical model of sterilization rate, and so on, and the amount of ultraviolet leakage is controlled within the safe threshold.





User-friendly Design

This product has a user-friendly design: a specific spatial light distribution is formed by the secondary optical design so that the ultraviolet rays are scientifically filled with the air duct space; the optimized design of the fluid parameters in the static pressure box makes the device able to maximize the output of ultraviolet radiation energy; The wind sensor principle is used to start and stop the equipment, and the visual interface includes a UVC working indicator light, making it easy for users to understand the sterilization equipment's status in real-time. Simultaneously, due to the difficulty of real-time detection of airborne microorganisms, a mathematical prediction model of bactericidal rate based on multi-variables is used to understand the relationship between bactericidal rate and time-varying changes in a specific environment in real-time via the smart panel. When the sterilization rate exceeds 90%, a "smiley face" symbol appears on the interface; when it exceeds 95%, two "smiley face" symbols appear; and when it exceeds 99.9%, three "smiley face" symbols appear; the flow-through air duct design effectively ensures safe use.



UVC sterilization

Powerful lighting

Purify air

RoHS

RoHS environmental protection material

Recyclable Materials Ensure Green Environmental Protection

The materials used in this product are in compliance with RoHS and will not affect the ecological environment. Simultaneously, by employing a new type of UVC-LED light source as a bactericidal factor, its semiconductor properties can be intelligently controlled, resulting in energy savings. It can not only bring reliability and security to users, but also ensure the maximum utilization of resources, in line with the strategic concept of sustainable development.