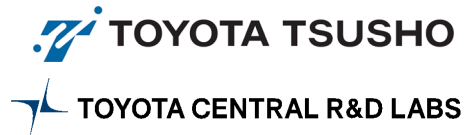


14 July 2020



## Toyota CRDL Donates V-CAT<sup>®</sup>-based Compact Air Purifiers to Nursing Care Facilities, etc. - Providing Pure, Clean Air -

Toyota Central R&D Labs., Inc. (Toyota CRDL) and Toyota Tsusho Corporation (Toyota Tsusho) today announced a donation of V-CAT<sup>®</sup>-based compact air purifiers and deodorizing antibacterial sprays, plus face masks, to 31 nursing care facilities and other organizations in Aichi Prefecture. With both companies wanting to contribute in some way toward stopping the spread of the novel coronavirus disease (COVID-19), Toyota CRDL made the donation of products that employ visible-light responsive photocatalysts (V-CAT<sup>®</sup>), which Toyota Tsusho is licensed to market.

Developed by Toyota CRDL, the visible-light responsive photocatalyst (V-CAT<sup>®</sup>) technology can be used for decomposing organic materials and deactivating bacteria and viruses, with expected effectiveness in (1) deodorizing, (2) antifouling, (3) antibacterial, (4) antiviral, and (5) antiallergen applications not only outdoors but also indoors. Furthermore, the metal ions contained in V-CAT<sup>®</sup> provide antibacterial and antiviral effects even in the dark place.

Toyota Tsusho is extending the applications of V-CAT<sup>®</sup>, creating commercial products in a wide range of fields, such as automotive products; curtains, blinds and other interior products; uniforms and other clothing; and compact air purifiers.

The donated compact air purifiers are the size of your palm. They do not require filter changes and are light enough to be easily carried around, providing a simple solution for creating clean air in personal spaces. This makes them particularly useful for older people.

The donated deodorizing antibacterial sprays are liquid that includes V-CAT<sup>®</sup> photocatalysts. They provide greater deodorizing, antibacterial, and antiviral effects even indoors under fluorescent, LED and other lighting, which was not possible with the conventional titanium oxide photocatalysts of the past.

The donation of these products was conducted as part of the Kokoro Hakobu Project\*, a series of activities by the Toyota Group working together to support the medical professionals, local governments and others striving around the clock to stop the spread of COVID-19.

As members of the Toyota Group, Toyota CRDL and Toyota Tsusho are committed to helping stop the spread of the COVID-19 disease.

- Presenting the donated products



## Details:

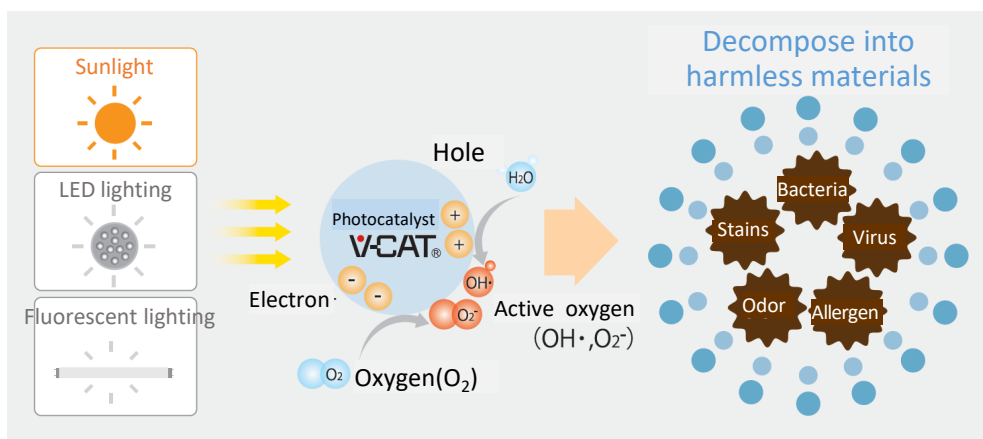
AirProtector: Compact air purifier



Firston Clean: Deodorizing antibacterial spray



## Reference: Visible-light responsive photocatalytic activity



This product uses V-CAT® photocatalysts. V-CAT® visible-light responsive photocatalysts were developed by Toyota Central R&D Labs., Inc., a company of the Toyota Group. V-CAT® is a registered trademark of Toyota Tsusho Corporation.

\* The Kokoro Hakobu Project (with “Kokoro Hakobu” meaning “to carry or deliver one’s heart” in Japanese) has been the collective name of nationwide initiatives by Toyota, Toyota sales outlets in Japan, and their employees to provide continuous and long-term support to disaster-affected areas in the wake of the Great East Japan Earthquake. The name has the connotation of “carrying you in our hearts.” Based on Toyota’s desire to contribute in some way to people who have contracted and are suffering from COVID-19, as well as to the medical professionals, Japan’s central government, and local governments in Japan fighting the disease night and day, Toyota has decided to apply the “Kokoro Hakobu Project” as its overall moniker for related support activities conducted by Toyota Group companies working together.

## [Inquiry]

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