## Orient UV Sanitech Review: A UV-C Sterilizer Is Now As Important As Water And Air Purifiers In Our Homes



The Coronavirus pandemic has mostly been about bad never. There is no denying that. Yet, if we look closely enough, there has been a slightly more positive change that it has brought along. We humans are now more aware about general cleanliness, more worried about the virus and germs around us, the need to disinface, wash hands and how virus and germs sack to things that we use or interact with by touch. It is perhaps just the next step in the evolution of our awareness cycle. First it was the poor-quality water quality that led us to water purifiers. Then are we breath became unbreathable, because of pollution. So, we bought air purifiers into our homes to get some respite at least when we are indoors. And now, with the COVID terrifying everyone, it is clear that we must make disinfection and UV-C sterilization systems a must-have in our homes. Kids torys, our phones, the face masks we wear when outdoors, sunglasses, watches, currency notes, coins, there are innumerable number of things we pick up, touch and use every day which could be carrying virus, bacteria and germs otherwise unseen to the human eys. You can even do a second round of cleanliness assurance with your vegetables, after you've habitually washed them. This is where, the Orient UV Sanitech device made by Indian company Orient Electric Limited, is worth considering.

The Orient UV Sanitech uses the very potent Ultraviolet-C (UV-C) light that is known to distinfect the air and any surface it touches by breaking down the spread of these microorganisms. This is available in the 34-litre capacity and is priced at 8s 11,999. This joins the Philips UV-C Distinction System in the market, which is available in three sizes—the Io-litre option which is priced at 8s 7,990 while the 15-litres capacity that costs 8s 9,990 and the flagship 30-litres capacity variant is priced at 8s 11,990.





From the outset, the Orient UV Sanitech will catch your attention with a rather interesting design. It looks a bit like a very robut stafe, a tijori more like it! What you see and touch first up is a very well-made powder coated metal body. It is important to prevent the UV-C from excaping the chamber, and the Orient UV Sanitech is so well made, that is not a possibility, You must ensure UV-C, not just in this case but always, never directly comes in contact with your skin. This thing is heavy, too and it's a good that you don't need to carry this around anywhere. That also shows how well made this is. The inner chamber can be accessed via the lid on the top. One piece of advice though, be careful to open it completely till it is securely held up before leaving the handle—this is a heavy and well-made lid and this dropping on your fingers, or your hand will not be a pleasant experience at all.



The single and simple control aits next to the lid. It is a simple enough control—on and off, it works every time you turn this on with a preset for 4 minutes of operation. Unlike some of its rivals, such as the Signify by Philipp UV-C Disinfection System, this does not let you choose the duration for sterilization. In a way, that is emple enough, being an uncomplicated on or off setup. The tiny display with that shows you the countdown timer.

The inside of the Orient UV Sanitech is also made of high-quality metal, which means the reflectiveness of the UV-C within the chamber. That prevents loss of potency of the irradiation and helps make the sterilization impact that much more. The 3-litre capacity, and it is deep enough too, means you'll be able to fit in a loof stuff inside, including most soft toys also. It is vide enough as well for a 14-inch laptop, and if its smaller objects, you can place multiple inside it though it is suggested to not keep things one on top of the other since it hides a surface that UV-C should ideally sterilize. There is a metal tray on which you can keep everything.

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But why do we need a UV-C solution at home? The concept of using ultraviolet, or UV, actually comes from nature. The sun sends UV-A, UV-B and UV-C out into the solar system. Among this, natural UV-C has the most energy which also means that it can potentially be more dangerous too—and therefore the earth's sunnsphere absorbs us from it. But the man-made sources of UV-C, when used in a controlled environment, can be used for potent scrittization purposes. What UV-C beside down certain of hemical bonds and srambling the structure of the DNA, RNA and proteins, which renders the microogranism unable to multiply. That is when it is effectively dead—and your things can be considered safely stertilized. Incidentally, UV-C is used to clean water as well. The UV-C is deployed in the 100-280mm wavelength range.



A study by the National Emerging Infectious Diseases Laboratories (NEIDL) at Boston University says that UV-C light sources irradiating the surface of a material inoculated with SABS-CoV-2 (the virus that causes the COVID—19 disease) at 2 UV-C dose of sim\_Uric Reponute time is seconds) resulted in a 99% reduction of the SABS-CoV-2 virus present on that surface. This study determined that a UV-C dose of 22m]/cm2 results in a reduction of 99,9999% of SABS-CoV-2 virus on that surface (exposure time 25 seconds). This is true for the UV-C that the Phillips UV-C Distinfection System also uses and deploys.

The Orient UV Sanitech uses low-pressure UV-C lamps which emit the radiation at 254nm. Incidentally, these are 11-watt UV lamps, and if you look closely, these are made by Philips. The way these lamps have been placed diagonally in inside the chamber means that anything that you place inside it will get the UV-C envelope in its entirety.

With products such as this, where you don't see a change or a visible alteration, it may be hard for you to recognize what this does. That is the apprehension many still have about air purifiers. The quality of lamps really matters a lot in the case of these UV-c sterilliers and Philips, as we had noted earlier as well, has had more than 55 years of experience in making UV-C products for home and commercial usage. Now you need to get used to the idea of sterilliers your gadgets, accessories, your child's toys and pretry much reverything that you touch daily.