



## UV-C-based disinfection system against COVID-19

**Inventors:** Samrat Sabat & Siba K. Udgata, School of Physics & School of Computer and Information Sciences, UoH

This UV-C ray-based disinfecting instrument is designed by professor Samrat Sabat, Centre for Advanced Studies, Electronics Science and Technology (CASEST), School of Physics and professor Siba K. Udgata, School of Computer and Information Sciences, University of Hyderabad along with ARCI. This technology



was later transferred to Mekins Industries Ltd, Hyderabad for large-scale production. The UV light (200-300 nm) in the instrumentation operates at an average speed of 5.0 feet/min to disinfect (>99%) a room of 400 square feet within 30 minutes. This wavelength generally provides rapid, effective inactivation of microorganisms and thus disinfecting both air and solid surfaces. It has been already deployed at Employee's State Insurance Corporation hospital in Hyderabad for field trials. *Read more* (<https://herald.uohyd.ac.in/university-of-hyderabad-collaborates-with-arci-in-developing-uv-c-based-disinfection-system-to-fight-against-covid-19/>)