

Title: Making Schools Safer with UV-C Disinfection

UV-C is a specific form of ultraviolet light with germicidal properties. It inactivates bacteria, molds and viruses — including SARS-CoV-2, E. coli and influenza — by disrupting the molecular bonds of their DNA and RNA and preventing the ability to infect humans.

UV-C is a clinically tested and proven technology that's been used for over a century to disinfect air, water and surfaces. Mostly notably, it was the key to controlling the spread of Lupus, Tuberculosis and Measles. While traditional cleaning and the use of chemical wipes play an important role, studies show that [up to 51% of high-touch surfaces](#) are missed when employing manual disinfection alone. UV-C's powerful disinfection properties destroy 99.99% of pathogens on surfaces and air - reaching the areas manual disinfection can miss. This is why, for years, UV-C has been the gold standard for keeping viral load down in hospitals, proven to reduce the incidences of hospital acquired infections (HAIs) [by up to 93%](#). Currently, there are no known UV-C resistant microorganisms on the planet. However, until recently, this technology has been cost-prohibitive to organizations outside of hospitals.



LINK: <https://drive.google.com/file/d/1ozc3-DBWuSY10x20uJ6L4fINkMdkzEkX/view?usp=sharing>

Meet R-Zero Arc: Designed for Hospitals, Innovated for Schools

Focused on designing the most effective and innovative infection prevention technologies, [R-Zero](#) is a biosafety company making hospital-grade UV-C disinfection technology financially accessible to schools for the first time.

R-Zero's flagship product, Arc, delivers critical infection prevention capabilities needed to provide safer environments for students, teachers, and staff.

With Arc, school leaders can:

- **Destroy 99.99% of Viruses in Minutes**
R-Zero Arc was designed to be easy to use in every space on campus, eliminating human error and destroying over 99.99% of surface and air pathogens in a 1,000 ft² room, in just 7 minutes.
- **Disinfect without Chemicals**
UV-C is a chemical-free disinfection solution, so Arc is eco-friendly and safe to use around food, plants, furniture and electronics.
- **Save on Labor Costs Associated with Disinfecting**
With less than two minutes of touch time required per cycle, custodial staff can be productive in one classroom while Arc is running in the other. No additional FTEs required.
- **Gain Visibility into a Historically Invisible Process**
With BLE and LTE-M connectivity, Arc provides school leaders with an auditable trail of all disinfection activities, for the first time. Data is shown in R-Zero's custom dashboard, enabling school leaders to track device usage and compliance in real-time.

Already working with over 100 public school districts, Arc can help to safely open schools, in addition to reducing sick days, long term. Arc is an eligible CARES Act expense, with both purchase and lease options available.

To learn more about R-Zero's hospital-grade solution for your school or district, visit rzero.com/education.