



# Infection Control in Educational Environments

A reliable solution for controlling contamination in high traffic and contact areas.

[siemens.ca/K12](https://siemens.ca/K12)

Keeping educational environments disinfected is critically important to the safety of students, instructors, staff, and visitors. Available through Violet Defense™ and their commercial partners at PURO™ Lighting, pulsed Xenon full-spectrum UV lighting technology provides educational institutions with a proven, easy-to-implement way to safely and efficiently harness the power of light to kill contaminants in the air and on surfaces. With a variety of products offered through Violet Defense and its commercial distribution partner PURO Lighting, we can provide you with mobile and installed solutions to meet your disinfection needs.

## Proven and effective protection made easy

A reliable, easy-to-implement solution to help disinfect high traffic and contact areas.

- Manufacturer testing has demonstrated effectiveness against certain viruses and bacteria\*
- Harnesses the germ-killing power of light to kill bacteria and viruses in the air and on surfaces
- Designed to make disinfection easy, system will kill germs in a flash with pulsed Xenon full-spectrum UV light

## Supporting Education

As the need for helping protect from and reduce the risk in education, we're harnessing our capabilities, expertise, and global network of partners to outfit and supply campuses and K-12 schools in the following ways:

- Identifying sources of potential contamination and offering effective technology to mitigate the risk
- Developing a holistic approach to create environments so that education can continue safely and efficiently

**VIOLET DEFENSE™**  
TECHNOLOGY

**PURO™**  
UV Disinfection Lighting

Solution  
Partner

Smart  
Infrastructure

**SIEMENS**

\*Results available upon request.

## Possible Applications

With a proven track record in both K-12 schools and colleges and universities, this solution can be used in the following scenarios:

### K-12 schools

- Classrooms
- Stairwells
- Bathrooms
- Locker rooms and gyms
- Nurse / administrative offices

### Higher education

- Classrooms
- Stairwells
- Locker rooms, workout areas and gyms
- Dorm rooms, kitchens and shared bathrooms
- Research areas



### How it works

This solution uses powerful bursts of ultraviolet light, including UV-C, UV-B, UV-A, and violet-blue light, which has been shown capable of killing certain bacteria, viruses, fungi, and mold.

### Benefits

- Compact size that seamlessly integrates into any room or surface
- Optimized cleaning cycle in as low as 30 minutes, depending on space
- Easily integrated into existing Siemens Building Automation (via BACNet) for scheduling and remote verification of completion
- Integrated safety system with multiple built-in motion detectors to stop cycle, if human or animal is present and restart when no motion detected
- No manual handling of UV systems to save labor/time (except mobile unit)
- Long product lifecycle
- Can be combined with other disinfecting solutions

### About Violet Defense

Since its inception, Violet Defense has been on a journey to harness the germ-killing power of ultraviolet light to help protect the world from germs. Its patented technology miniaturizes the deployment of UV light to integrate into almost any product or environment.

### About PURO Lighting

PURO Lighting, powered by Violet Defense technology, offers ground-breaking products that use the power of full-spectrum UV light to rapidly disinfect any enclosed area of viruses and pathogens.

### About Siemens Smart Infrastructure for Educational Environments

Siemens Smart Infrastructure brings innovations in smart building technologies to create environments that care. Our smart education infrastructure solutions work to improve the educational experience with the safety of those spaces at the forefront.



### Available options include:

- Air Handling Unit
- Ceiling: Hard or drop-ceiling
- Wall-mount
- Portable (on wheels)

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This document contains a general description of available technical options only, and its effectiveness will be subject to field conditions with project parameters defined in a formal contract.

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