

UV Light Applications

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Germicidal UVC Lamps for Sterilization & Disinfection

Because of the inherent benefits and endless possibilities, *UV light applications* are quickly becoming the most popular choice worldwide for industries that require water, air and surface sterilization. Germicidal UVC technology offers safe, simple, and cost-effective solutions. Our products are used in units that help safeguard drinking water from harmful microorganisms, food processing plants, hospitals, and HVAC applications as well as many other applications.

UV Light Applications – Innovative Technologies for Industry

Air Sterilization

UV light applications are used for odor control, sterilization, and [elimination of VOCs and industrial exhausts](#) containing solvents. In some institutions, such as hospitals, air quality is crucial for health. Germicidal UV [purifies the air](#) from microorganisms that cause illness and contaminants that aggravate asthma or other respiratory ailments. The use of UVC in odor control has many applications, including wastewater plants, farms, commercial kitchens (HVAC), and food processing plants.

UVC germicidal lamps are also critical in [purifying the air in industries](#) where harmful and toxic chemicals are produced, such as printing, plastics and rubber.

- Healthcare
- HVAC Systems (commercial, industrial, healthcare, and residential)
- Agriculture (animal husbandry)
- Commercial Kitchen Hooks
- Printing (Rubber, Plastic & Vinyl)
- [Industrial](#)

Surface Sterilization

UV lamps disinfect surfaces without chemicals, which is crucial in many industries.

In the food industry, for example, our lamps are used for irradiation: [germicidal ultraviolet light](#) can kill viruses, bacteria, yeast, and fungi in seconds and can extend shelf life and nutritional value. Increasingly, UV light applications are used for filling equipment, conveyor belts, transport containers and working surfaces of foodstuffs.

- Food Processing (processing, warehousing, handling, produce department, salad bars, buffets, bakeries, restaurants, meat cases)
- Clean Rooms
- School Labs
- Biotech Industry (research labs, biotech labs, equipment sterilization, medical testing, bioengineering, genetics, pharmaceutical processes)
- Agriculture (crops)

Water Disinfection

UV light applications are used to create safe water in pools and spas and eliminate the need for chlorine's harmful and irritating effects. They are also used in aqua culture, life sciences, and water treatment processes ([treating ship ballast water](#), waste water, drinking water purification, and water reclamation). Traditional ways to [treat and disinfect water](#) can be unhealthy, hazardous, and environmentally toxic. [UV water treatment](#) is safe and environmentally friendly, and, in some cases, more effective.

- Pools & Spas
- Aqua Culture
- Life Sciences
- [Water Treatment](#) (waste water, municipal and residential, drinking water, industrial & commercial process water, and water reclamation)
- [Ballast Water in Ships](#)

LightSources and our affiliated companies, LCD Lighting, Voltarc along with strategic partners, LightTech and Cerlux, represent the leading high-tech designers and manufacturers in the lamp industry today. We offer high-quality standard lamps and components as well as specialize in customizing the best solutions to meet our partner's unique needs. Contact us to learn more about our UV light applications.