

Noblelight BlueLight® Flash Systems:

Engineered for High Performance in Challenging Production Environments



In today's fast-paced food and beverage packaging industry, hygiene, efficiency, and reliability are essential. Noblelight® BlueLight Flash systems from Excelitas® offer a cutting-edge, chemical-free disinfection solution that is transforming how manufacturers disinfect products and packaging in food and beverage production facilities. These systems are designed to meet the rigorous demands of modern production environments, delivering consistent, high-level microbial reduction without harsh chemicals like peracetic acid and hydrogen peroxide.

Powered by pulsed xenon technology, BlueLight Flash systems emit intense ultraviolet light that inactivates pathogens by disrupting their cellular structure. This results in significant log reduction rates across a wide variety of packaging formats, from beverage bottle caps and food containers to direct irradiation of organic products such as poultry portions.

The BlueLight Flash product family includes two systems tailored to different application needs.

The **BlueLight® Flash System** has been reengineered for high throughput disinfection of compact packaging substrates and organic products. It performs reliably in cold, damp, and demanding environments such as poultry processing plants, with integrated monitoring mechanisms that enable the system to operate safely. With processing speeds of up to 500 square meters per hour, it consistently achieves microbial reductions greater than 4 log (99.99 percent). In recent microbiological studies, the system demonstrated exceptional efficacy across various substrates, including plastic bottle caps and aluminum lids and tins. On a glass slide reference sample, the system achieved greater than 6 log reductions of *Aspergillus brasiliensis*.

The BlueLight Flash Large Area System is engineered for broad-surface applications, such as those

in dairy production. It delivers uniform, high-intensity irradiation and supports both cell plate and sealing film carrier treatment. Its modular, cartridge-style lamp design streamlines maintenance, minimizes downtime, and enhances adaptability across diverse use cases. With a compact footprint, the system integrates easily into space-limited environments and is ideal for retrofitting applications.

Both systems feature intuitive human machine interfaces, IP69-rated enclosures for washdown protocol compatibility, and quartz glass breakage sensors to ensure safe operation. As a non-contact disinfection solution, BlueLight Flash is ideal for emerging packaging trends that favor thinner, more delicate materials unsuited to wet chemical disinfection.

To support optimal implementation, Excelitas provides disinfection modeling and simulation services, helping customers configure the most effective system for their specific needs. For manufacturers seeking high-performance disinfection, BlueLight Flash systems offer unmatched safety, power, and peace of mind.

<https://bit.ly/4ntEKR4>

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