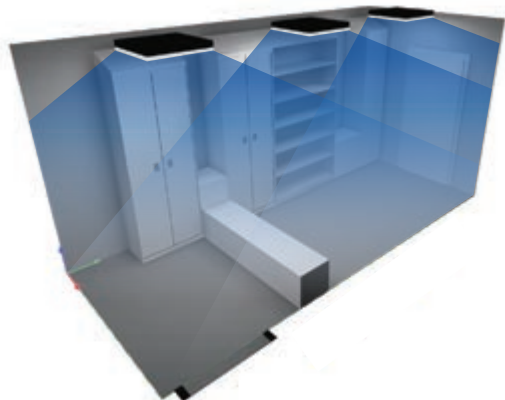


CONTINUOUS MICROBIAL CONTROL FOR CLEANROOM ENVIRONMENTS



Reduce contamination risk with automated antimicrobial blue light

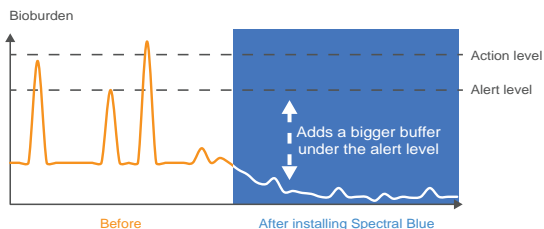


Spectral Blue supports pharmaceutical and life-science manufacturers in reducing microbial contamination risks and strengthening GMP-compliant contamination control.

The solution is designed for transition and supporting areas such as gowning rooms, material airlocks, and selected equipment, where contamination is most often introduced into cleanrooms.

With our patented Spectral Blue MWHI® Multi-Wavelength High-Intensity Blue Light technology, cleanroom operators can:

- Maintain continuous microbial control in transition areas
- Reduce microbial load entering production areas
- Lower reliance on chemical disinfection
- Reduce deviations, re-cleaning, re-sampling, and documentation workload
- Strengthen GMP compliance and reduce operational risk



Unlike manual chemical disinfection, Spectral Blue is automated, residue free, and designed for continuous use.

Unlike UV-based solutions, it emits no hazardous radiation, does not damage materials or equipment, and can operate safely around people.



Always on, always safe

Spectral Blue operates automatically during off-hours or 24/7, providing continuous microbial control of air and surfaces.

Scientifically and field proven

Backed by nearly 3,000 peer-reviewed studies and proven in real-world pharmaceutical manufacturing environments, Spectral Blue has demonstrated efficacy on bacteria, yeasts, molds, including spore-forming organisms and biofilms.

How it works

Spectral Blue devices emit safe visible blue light at multiple wavelengths at high intensity. The light activates naturally occurring compounds inside microbes, generating reactive oxygen species (ROS) that damage essential cell structures. The result is microbial inactivation and death.

Proven results in GMP & ISO cleanrooms

- **Global Pharma Company:** Eliminated dry biofilms in cut-off rooms
- **Phillips-Medsize, plastics for pharma:** Reduced chemical disinfection by 80% in an airlock
- **NextPharma, CDMO:** Reduced contamination entering production by 90%

These results demonstrate how continuous antimicrobial control in supporting areas can significantly reduce cleanroom contamination pressure.



Learn more & request free 3D disinfection planning

www.spectral.blue/cleanrooms