LIGHT ON CELLS

YOUR FIRST LINE OF DEFENSE FOR FASTER, SMARTER SANITATION CHECKS

LIGHT On Cells is an advanced detection tool that identifies bacterial proteins, biofilms, and potential contaminants on surfaces—without the need for revealing liquids or added reagents. Designed to support cleaning validations and hygiene protocols, it empowers teams to inspect equipment and production environments in real-time, take corrective actions immediately, and strengthen overall sanitation programs.

Used alongside swab or ATP testing, it allows plants to swab only when contamination is detected—reducing reliance on swab kits, saving time and resources, and increasing confidence in hygienic conditions.

WORKING PRINCIPLE

- Utilizes UV-A illumination to visualize contaminants invisible to the naked eye
- Detects bacteria, biofilm, and microbial proteins on surfaces
- Enables hygiene inspections during cleaning validations and post-cleaning checks
- Requires no revealing liquid or added reagents for detection

BENEFITS

- Delivers deeper microbial visibility, detecting risks missed by swabs and cultures
- Enhances cleaning validation with fast, visual, reagent-free confirmation
- Ideal for post-maintenance, turnover, or recurring contamination scenarios
- Supports cross-functional teams with actionable hygiene data
- Strengthens audit readiness and reduces contamination-related downtime
- Targeted sampling improves microbiological and ATP test accuracy
- Cost-effective: 5-hour battery life and 6x higher intensity than comparable products

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DETECTION OUTPUT OPTIONS

- Light signal emitted to indicate presence of bacterial protein
- Visual detection without the need for chemical indicators or revealing liquids
- Greenish fluorescence appears when UV-A light interacts with bacterial proteins and biofilm
- Enables visual detection without the use of chemical indicators or revealing liquids

SPECIFICATIONS

- Ultraviolet Spectrum: UV-A Band
- Visual detection of proteins, biofilms, and other surface contaminants
- Reagent-free operation
- Battery life: approximately 5 hours
- Higher intensity (6x) compared to similar technologies
- For routine inspections, PPE may not be necessary; however, UV-A glasses are recommended for prolonged or repeated use

COMPONENTS

- Portable inspection device
- UV-A illumination system
- Integrated rechargeable battery

MATERIAL

- Durable materials suitable for industrial and medical use
- Engineered for high performance in hygienic environments

APPLICATIONS

- Most common use: Hygiene checks during cleaning validation processes
- Inspection of manufacturing units and equipment for contaminants
- Post-maintenance and equipment turnover hygiene validation
- Enables corrective action based on detection results
- Non-viable particles such as dust or fibers appear bluish when detected and can be moved by a gloved hand while viable bacteria does not move
- Food industry: CIP/COP verification and equipment inspection
- Beverage industry: Line and equipment cleaning validation
- Pharmaceutical industry: Validation of equipment and production environments
- Other uses such as Healthcare, Hospitality, Research Labs, Sanitation, Cruise Ship, Commercial Kitchens, Data Cooling Towers, and more

ULTRA DESIGN

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