



MICROBIAL WARFARE: WINNING WITH UV TECHNOLOGY

UV DISINFECTION EXPERT

 BEYOND
CLEAN

Daan Hoek | Co-Founder UV Smart

Beyond Clean UV Disinfection Expert™:

MICROBIAL WARFARE: WINNING WITH UV TECHNOLOGY

Daan Hoek | Co-Founder UV Smart

Microbial control in healthcare is vital, and traditional methods often fall short. UV technology has emerged as a powerful solution, with germicidal effects against various microbes, including bacteria, viruses, fungi, and protozoa.

Understanding UV Technology: UV technology uses specific wavelengths (200-280nm) to destroy pathogens' nucleic acids and DNA. This inhibits their multiplication and spread, particularly in high-risk hospital areas. It's a valuable tool for preventing disease transmission among healthcare workers and patients.

Case Studies: Several organizations have successfully implemented UV technology. Spaarne Gasthuis found it more effective than standard washer-disinfectors. Marburg University used UV radiation for flexible ENT scope disinfection, achieving a significant reduction in contamination. Elisabeth-Tweesteden Hospital disinfected flexible ENT scopes with UV technology within 60 seconds, more economically than previous methods. These cases underscore UV technology's potential in protecting populations.

Preventing Outbreaks and Public Health Protection:

Hospital-acquired infections are a grave concern, with about 1.7 million cases annually in the U.S., resulting in 98,000 deaths. UV technology's broad activity against various pathogens makes it suitable for high-risk healthcare settings, including operating rooms and medical instruments. By killing pathogens and limiting disease spread, UV technology plays a vital role in saving lives and reducing morbidity.

Revolutionizing Infection Control: UV technology's effectiveness in eliminating pathogens has been proven across various medical centers and labs. Healthcare professionals and infection control experts can utilize UV technology to control and reduce the spread of disease-causing organisms. Its implementation marks a significant advancement in microbial warfare, transforming infection control in healthcare and providing a promising path for enhanced public health protection.

Have more UV disinfection questions? Contact Daan at: daan.hoek@uvsmart.nl

Beyond Clean UV Disinfection Expert™ Biography:

DAAN HOEK CO-FOUNDER UV SMART



Daan Hoek is the Co-Founder of UV Smart and very passionate about UV-C light as a disinfecting agent in the medical field. UV Smart is an innovative company based in the Netherlands with an established US office in New York. The UV Smart devices can disinfect medical equipment quickly, efficiently, and consistently by using UV-C light. By refining this ancient technology, UV Smart made it possible to disinfect medical equipment in a rapid and effective way. UV-C light also eliminates the use of chemical disinfectants that are harmful to medical equipment, operators, and our planet, while saving a substantial amount of turnaround time. UV Smart is the front-runner in applying UV-C technology to medical devices. UV Smart is currently active in over 20 countries worldwide.

Daan is also the chairman of the Taskforce UV-C light of the Dutch Normalization Committee. Along with the taskforce, he developed the first European guideline for UV-C disinfection devices in the medical field. He is also in charge of all the clinical (multi-center) studies of UV Smart, three of which are running in the US and in Europe.

If you have any questions regarding UV-C light, feel free to reach out to him!

 **BEYOND**CLEAN 