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ESP-DLux™ - Automated Germicidal Light Infection Control/Biosecurity System

Technology / Capability Overview:



Continuous Air Disinfection When Room is Occupied

Direct Surface and Air Disinfection When Room is Empty

The patented ESP-DLux™ eradicates 99.9% of viruses including COVID-19 and other life-threatening pathogens in enclosed spaces using UVC light, providing continuous disinfection of air, with periodic direct disinfection of hard surfaces, through sensor-driven automation.

Relevance to Combatant Command or other Need:

Category* : Force Protection & Medical

- Portable size (24"x6"x8", <25 lbs) for rapid deployment in response to pandemic viruses and other infectious diseases
- Can be used as a stand-alone device or networked into large systems for patented, comprehensive infection control
- Enhances biological weapon preparedness and protection
- Optimizes performance through improved environmental hygiene and reduced losses due to illness
- Enhances safety in patient movement by air, ground and sea throughout the continuum of care
- Includes patented scheduled disinfection and a continuous log of all operations for precise documentation of usage

Past Performance of Technology and Company:

- Prototype device built with NASA-affiliated engineers
- Successfully tested at Via-Christi Regional hospital, Wichita, KS
- Tested at Iowa State University, 99.994% kill of meat spoilage germs under simulated meat processing conditions
- Iowa State University Level 3 Biosecurity testing demonstrated 99.999% Listeria kill on common surfaces
- Successful pilot testing of automated scheduled disinfection at veterinary clinic, Andover, KS
- UL Level Safety Testing Successful, June 2021
- 5 U.S. patents, 4 Trademarks, 39 international patents pending
- In 2020, signed first license of IP into N. American elevator market. New product is "Powered by ESP-DLux™"

Maturity / Scalability / Cost / Schedule

TRL : 8

- Can be customized to other sizes and configurations, with additional UVC power available
- EHS's ETL-Certified manufacturer can produce up to 10,000 units per month
- Series 300 (featuring advanced networking capacity) completed, tested and ready for market by March 2022; Cost <\$10K
- With timely funding (pre-orders, low interest loans or grants) of \$500K, Series 300 can be completed January 2022
- First Series 100 (stand-alone units) shipped September 2022; Cost is <\$7K