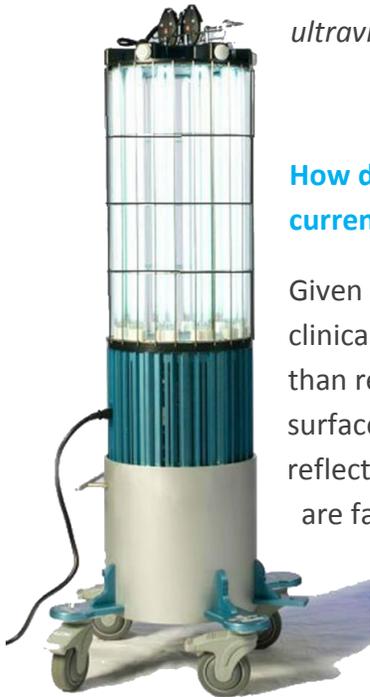


## CSGI UV-C Disinfection FAQ

### How does UV-C differ from traditional cleaning products?

Instead of using harsh chemical disinfectants that leave irritating residues, CSGI employs UV-C germicidal irradiation -- a *green disinfectant with no residual chemicals*, providing up to 6 log reductions in microorganisms known to cause nosocomial infections.

Microorganisms are becoming increasingly resistant to chemical solvents and traditional cleaning methods are contributing to the creation of superbugs. A solvent that kills Methicillin Resistant *Staphylococcus aureus* (MRSA) or *Acinetobacter* today may not tomorrow. As UV-C destroys the DNA and RNA needed for microorganisms to reproduce, this issue is entirely avoided. *There are no known pathogens immune to germicidal effects of ultraviolet light.*



Above: IRS 1140m. Devices can be paired for IRS Syndicate.

### How does the UV-C cleaning process differ from current cleaning methods?

Given the time, tools, and physical constraints of traditional janitorial services, clinical spaces and patient rooms tend to be a patch-quilt of clean and dirty. Rather than relying on the skill of the individual cleaning using traditional methods, full surface exposure of UV-C treatment takes the guess work out of cleaning. UV-C reflects and bends into all areas and surfaces within the room, regardless if they are facing the device or not.

UV-C is purely a microbial disinfectant agent, specifically targeting the pathogens associated with nosocomial infections. UV-C is not a replacement for cleaning services such as linens and bio-load removal.



Above: IRS 3200m



## How long does UV-C treatment take?

The two largest factors in determining treatment times are:

- 1) The microorganisms suspected within the space
- 2) How large the space is

On average, a 200 sq. ft. patient room containing non spore forming microorganism such as MRSA is completed in *7 minutes*. Spore forming microorganisms such as *Clostridium difficile*, in the same size room, average *15 minutes*.

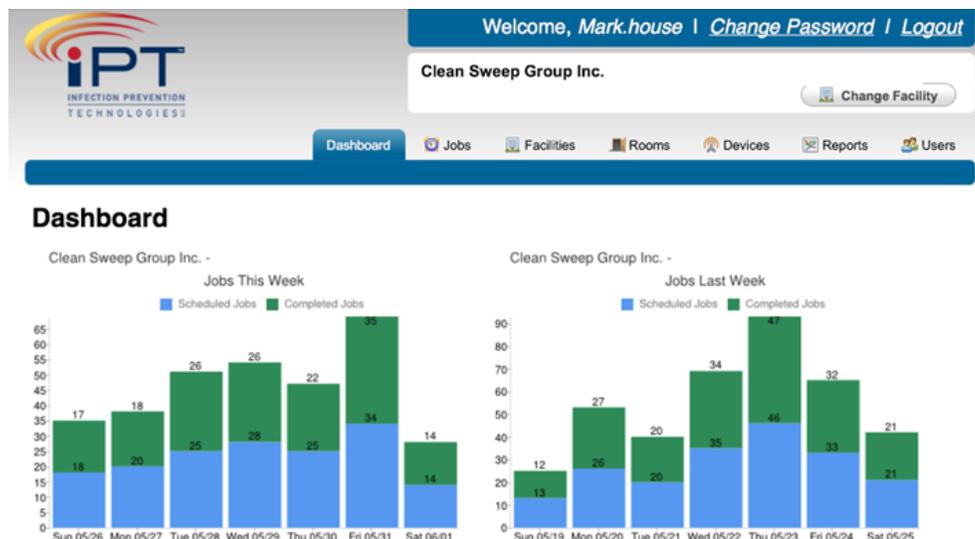
Due to the speed of the UV treatment, Clean Sweep Group, Inc. (CSGI) is able to be implemented into the *routine cleaning throughout the hospital*, providing every patient with a clean environment to recover.

Furthermore, tasks such as manually bleaching the walls upon terminal discharge are no longer necessary. UV-C disinfection is more efficient and effective than many traditional cleaning protocols.

## How do I know if a room has been treated?

***Steri-Trak Online Tracking*** allows clinicians and administrators to always have real-time knowledge if a room is patient-ready. Upon completion of every CSGI UV treatment, details are automatically uploaded to an internet data base that can be accessed through any web-enabled device, including smartphones.

### ***Steri-Trak Dashboard Screenshot***



### ***Is there any quality control?***

Yes, CSGI's proprietary UV treatment analytics software allows remote monitoring of CSGI's service performance. From detection of a deteriorating UV device to a technician error, CSGI's analytics team monitors the daily performance of CSGI's technology and technicians and can give a precise level of statistical confidence whether any single UV treatment was properly performed. Daily attention to performance data guarantees the highest quality of service over time by proactively identifying and fixing issues.

### ***Is UV-C safe for my facility?***

Yes, however UV-C is a powerful disinfectant agent that requires safety precautions. Clean Sweep Group, Inc. employs numerous redundant safety mechanisms to protect both patients and staff.

### ***CSGI ensures no exposure to UV-C.***

- 1) Motion detectors are placed on each entrance to the treated space. If tripped, the power is *immediately* shut off and the protective aluminum shutters close.
- 2) Motion sensors on the device itself detect any movement within the room itself and *immediately* trigger deactivation.
- 3) UV-C *does not* penetrate walls and window-glass.
- 4) Immediately after treatment, the room is patient ready. *There are no residual chemicals.*

### ***What lamps do CSGI technology use?***

The IRS 3200m and 1140m (Syndicate) use Light Source, Inc. (Connecticut, USA) Low Pressure UVC lamps in a single tube linear configuration and a twin tube compact lamp design, respectively. The trace mercury vapor content within the lamp is equivalent to linear and compact fluorescent lamps currently used within your facility or home.

### ***How do I know CSGI's UV-C bulbs are safe?***

The RoHS and REACH endorse and ensure that energy efficient, long life, trace mercury vapor content, compact fluorescent lamp designs are safe to use in healthcare, homes and municipal water treatment plants. The IRS 3200m and IRS 1140m utilize RoHS and REACH endorsed bulbs. The bulbs deliver the most powerful, efficient, germicidal UVC to provide the safest environment for patients, their visitors and healthcare professionals. The technology is trusted by hospitals and is safe your home.



### What happens if a lamp breaks?

In the event that a lamp were broken, simply follow your current policy and procedure for glass cleanup and disposal of a broken fluorescent or compact fluorescent lamp, or municipality regulation IAW at <http://www.epa.gov/mercury/spills/>.

No personal protective respiratory equipment is required during cleanup a broken Light Source, Inc. UVC lamp. The major hazard from broken lamps is the possibility of sustaining glass cuts. Light Source, Inc. MSDS documents correlate the trace mercury vapor content at an ultra-low 0.025% of the total gas contained within the lamp.



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US Federal Contractor Registration

DUNS: 035988379  
CAGE: 6TMK5  
Veteran Owned Business  
Minority Owned Business  
Disabled Veteran Owned Business  
Current in SAM



North American Industry Classification System (NAICS):

541620 – Environmental Consulting Services  
561210 – Facilities Support Services  
561720 – Janitorial Services  
561790 – Other Services to Buildings and Dwellings  
562910 – Remediation Services  
611430 – Professional and Management Development Training.  
423430 – Computer and Computer Peripheral Equipment and Software Merchant Wholesalers  
423610 – Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers  
423690 – Other Electronic Parts and Equipment Merchant Wholesalers  
561990 – All Other Support Services  
611420 – Computer Training



Clean Sweep Group, Inc. is a verified service-disabled veteran-owned small business (SDVOSB) by the U.S.

