

# Disinfection for every angle of the Radiology Department

Germicidal UV-C light ideal for Radiographic  
Procedure Surface Disinfection  
including CT & DR



**MoonBeam3™**  
DISINFECTION TECHNOLOGY

Distributed by Daylight Medical

**Hospitals are under enormous pressure to provide assurances to patients and radiology staff that their safety has been prioritized.**

When it comes to disinfection, complex environments like healthcare can be challenging and time-consuming. As the COVID-19 pandemic continues to threaten the well-being of your patients and staff, now more than ever, it is critical to ensure proper and efficient cleaning protocols, especially in the radiology department.

With chest radiography and CT scanning being used in the screening, diagnosis and management of hospitalized patients, high-touch surfaces are vectors of contamination. There are well documented concerns of transmission of SARS-CoV-2 on general radiology surfaces, including CT<sup>1-4</sup>. Caring for a suspected COVID patient leaves no room for error yet there is no quick, effective conventional way to disinfect between procedures. Manual cleaning helps attack the risk but ensuring all surfaces are properly disinfected can be challenging. However, there's good news: a highly effective, fast and proven method to achieve 4-6 log reductions can be easily implemented following your disinfectant wipe down process.

Diversey MoonBeam3™ is highly effective at stopping the spread of many pathogens, including enveloped viruses like the novel coronavirus. It's a powerful, proven 254 nm UV-C disinfection system that provides unprecedented confidence in your cleaning protocols throughout radiology, ensuring the surfaces of the CT gantry, tunnel and table – as well as positioning tables

## **DESTROY SARS-CoV-2 in seconds**

In partnership with the highly respected Fujita Health University, Japan, MoonBeam3™ was recently tested on a live COVID strain. The results were outstanding and far from ordinary. *In less than four seconds, MoonBeam3™ destroyed the virus with a 99.9999% reduction, making it the first and only 254 nm UV-C system proven against COVID.*

and DR & CR surfaces – are safe for your next patient and the radiology staff who have contact with the equipment. Its lightweight and highly compact design enables MoonBeam3™ to be easily moved and repositioned in seconds. Three individually adjustable arms can be positioned at almost any angle to optimize disinfection energy to allow for effective dosing of both horizontal and vertical surfaces. This not only gets the dose close to surfaces, it also greatly reduces shadow areas. With just seconds required to run a cycle, MoonBeam3™ keeps pace with the workflow, enabling powerful UV-C disinfection after every patient. Incredibly easy to operate, users simply plug it in, position the arms and press start. Built-in safety features will interrupt the cycle if motion or acceleration is detected, helping to guard against accidental human exposure to the UV-C light.

Not only is MoonBeam3™ proven effective against SARS-CoV-2, the pathogen that causes COVID-19, it is used in the world's leading hospitals to reduce the spread of HAIs (healthcare-associated infections) such as MRSA, VRE, MDR-Gram negative, norovirus and *C. diff* spores. There are well over 1,500 MoonBeam3™ systems in use across the global healthcare market and beyond. Germicidal UV-C systems are widely used in hospitals to combat healthcare-associated infections, but many of these devices are too bulky and expensive to effectively disinfect diagnostic imaging equipment surfaces, especially in busy hospitals.

MoonBeam3™ is portable, affordable and keeps pace with your workflow, helping disinfect the high-touch surfaces of equipment, patient preparation areas and dressing rooms safely, quickly, reliably and responsibly so you're ready for your next patient.

### Specifications

- UV-C head physical range:  
6" (15 cm) to 84" (210 cm) high
  - High continuous power ballasts, high-output soft glass emitters 95W, >350uW/cm<sup>2</sup> per emitter<sup>5</sup>
- Preset cycle time in seconds: 90, 180, 300, 600
- Applied dose: 75mJ (2') 180 seconds; dose is accumulative
- Device weight:  
39 pounds (17 kg) complete
  - Base unit: 27 pounds (13 kg)
- Environmental: No ozone generation, high output low pressure mercury UV-C lamps
- Device size: 15" x 44" (38 cm x 112 cm)
- Acoustic noise: negligible db
- Power: 100-120V~, 3.2A, 50/60Hz,  
200-240V~, 1.6A, 50/60Hz

### Warranty

One year Return-to-Factory Warranty on the MoonBeam3™ device, excluding bulbs. No tools required for bulb replacement.

### Regulatory

This product is in conformity with the requirements of EC Council directive MDD93/42/EEC and satisfies the Class A limits of IEC60601-1-2 for healthcare environments. Conforms to IEC/EN/UL 61010-1, Certified to CAN/CSA Std C22.2, Nos. 61010-1.

<sup>1</sup>COVID-19 pneumonia: infection control protocol inside computed tomography suites. Kento Nakajima, Hideaki Kato, Tsuneo Yamashiro, Toshiharu Izumi, Ichiro Takeuchi, Hideaki Nakajima

<sup>2</sup>Infection Control for CT Equipment and Radiographers' Personal Protection During the Coronavirus Disease (COVID-19) Outbreak in China. Jieming Qu, Wenjie Yang, Yanzhao Yang, Le Qin, Fuhua Yan

<sup>3</sup>Protection of CT suites from COVID-19 infection in a tertiary emergency hospital. Tetsuya Katsumori, Tatsuya Yoshikawa.

<sup>4</sup>UVC Disinfection of CT Scanners, Johns Hopkins University. Dr. Jeffrey Siewerdsen

<sup>5</sup>Lamp data is based on measurements performed under laboratory conditions in air at room ambient temperature. Measurements were performed on a high-frequency, current limited electronic ballast, 50/60 Hz, and represent 10 bulbs average uW/cm<sup>2</sup> values at 1.2 meter.

Copyright ©2021 Daylight Medical, Inc. 3/2021. All results based on independent testing. Individual results may vary. Specifications are subject to change without notice. Lab results on file. All registered and unregistered trademarks are the property of their respective owners. Patented technology, additional patents pending. Patents: [www.diversey.com/virtual-patent-marking](http://www.diversey.com/virtual-patent-marking)  
Diversey MoonBeam3 is distributed by Daylight Medical and manufactured in Middleburg Heights, Ohio USA.

### Be certain in seconds

Studies have shown that the healthcare environment can act as a reservoir for pathogens. These pathogens can live on surfaces for days, weeks and even months, creating the ideal opportunity for their spread. Studies confirm that just 30 to 50 percent of high-touch hospital surfaces are cleaned<sup>6</sup> and coupled with a lack of time to do it thoroughly poses real vulnerabilities. There is something you can do about it.

### MoonBeam3™ keeps pace with patient throughput to destroy dangerous viruses and pathogens.

In as little as 90 to 180 seconds<sup>7</sup>, high-touch surfaces are effectively disinfected with UV-C, keeping you on schedule for your next scan. Create an environment of confidence: prioritize the safety of your patients and radiology department staff with UV-C that positions horizontally and vertically to disinfect at every angle.

<sup>6</sup>Krammer A, et al. How long do nosocomial pathogens persist on inanimate surfaces? A systematic review. *BCM Infectious Diseases*. 2006;6:130. Deverick J Anderson, Luke F Chen, David J Weber, Rebekah W Moehring, Sarah S Lewis, Patricia F Triplett, Michael Blocker, Paul Becherer, J Conrad Schwab, Lauren P Knelson, Yuliya Likhnygina, William A Rutala, Hajime Kanamori, Maria F Gergen, Daniel J Sexton; for the CDC Prevention Epicenters Program

<sup>7</sup>Proven efficacy of up to a 6-log reduction (99.9999) via third-party testing on several microorganisms including enveloped viruses (SARS-CoV-2), small non-enveloped viruses, bacteria and bacterial spores have been performed using MoonBeam3, and demonstrated a significant log reduction in pathogens.

### Unique UV-C

MoonBeam3™'s mobility and ease of positioning in tight spaces combined with fast delivery of effective UV-C doses makes it the ideal solution whenever and wherever it's needed.



## MoonBeam3™

DISINFECTION TECHNOLOGY

Distributed by Daylight Medical

17991 Englewood Drive, Suite A  
Middleburg Heights, OH 44130 USA  
(800) 459-8500  
(440) 243-1334 Fax  
[www.daylightmedical.com](http://www.daylightmedical.com)  
[uvc@daylightmedical.com](mailto:uvc@daylightmedical.com)