

ON-DEMAND

DISINFECTION

GETS THE DOSE CLOSE

*The only portable UV-C system that positions light
vertically, horizontally and angled for optimized disinfection
Ideal for medical & public transport*



MoonBeam[™] 3

Distributed by Daylight Medical



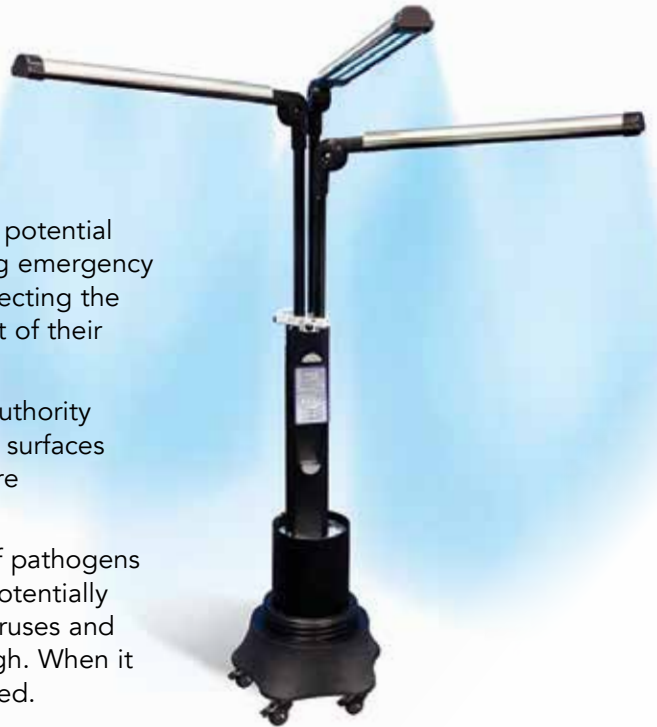
MoonBeamTM 3

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First responders are vital to disaster response. They face many potential job hazards treating patients with potential infectious illnesses during emergency transport in ground and air vehicles. Priority must be placed on protecting the safety of frontline personnel by ensuring the surfaces and equipment of their confined work environments are properly disinfected.

In addition to EMS, ambulance, life flight and police, public transit authority services such as bus and rail transportation contain many high-touch surfaces that require proper cleaning and disinfection protocols to help ensure passenger and operator safety.

Studies have shown that spray and wipe methods eliminate <50% of pathogens on high-touch surfaces. Despite best efforts with manual cleaning, potentially dangerous pathogens remain. These lurking, overlooked bacteria, viruses and pathogens can be dangerous, so 'almost disinfected' just isn't enough. When it comes to disinfection, the importance of efficacy cannot be overstated.



What makes MoonBeam3 unique:

- Designed and manufactured in an EPA registered facility
- Proven efficacy, third-party antimicrobial effectiveness laboratory tested
- Hospital environment designed & certified; high-output UV-C 254-nanometer germicidal spectrum
- Suited for whole-room or targeted high-touch surface/equipment disinfection
- Highly-effective disinfection in as little as three minutes
- Rugged design for mobility
- Size, weight, height enable fast deployment where and when needed
- Telescoping arms enable horizontal, vertical and angled UV-C light to "get the dose close"
- Uniquely designed for deployment and use in compact spaces



EASY-TO-USE

1. Plug it in
2. Position the arms
3. Place the remote cover outside the area where disinfection is taking place
4. Press start

That's it! When not in use, the remote cover houses the complete system for easy transport and storage.



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Versatile and effective UV-C disinfection

MoonBeam3 delivers powerful UV-C germicidal light to provide fast, on-demand broad area disinfection of high-touch surfaces in as little as three minutes. Exclusive to MoonBeam3 are its three articulating heads that can be positioned vertically, horizontally and angled to “get the dose close” and direct the UV-C light to disinfect surfaces from six inches to more than seven feet from the ground and six feet outward. With proven efficacy of up to a 6-log reduction (99.9999)*, third-party testing on several microorganisms including enveloped viruses, small non-enveloped viruses, bacteria and bacterial spores have been performed using MoonBeam3, and demonstrated a significant log reduction in pathogens. This efficacy data demonstrates the effectiveness of the MoonBeam3 device on pathogens that are more difficult to kill than enveloped viruses such as SARS-CoV-2. 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, its unique design is ideal for tight spaces such as transport vehicles yet effective in larger spaces such as fire house dorm rooms, bathrooms, dining areas, weight rooms and other shared spaces.

Not all UV-C is created equal

It’s important to note that not all UV-C is created equal. While many UV-C devices are large, expensive, difficult to use, and restricted in terms of deployment, others lack enough dose (e.g. power) to be effective against pathogens. They are often too heavy, too wide and too tall for tight spaces, and not designed for the ruggedness required in transport. These various sized UV-C systems have bulbs that are limited to vertical-only positioning and lack the ability to effectively disinfect horizontal surfaces.

UV-C bulbs can also be placed in the ceilings of transportation vehicles, sometimes as retrofit solutions. While UV-C is one of the most effective methods of disinfection, power, proximity, distance and angle of the light are very important. These fixed geometry and aftermarket bulb kits are often too far away from surface areas therefore not powerful enough to kill pathogens, even with longer dose cycles (>20 minutes). The fixed orientation of the bulbs only allows the light to reach surfaces, not verticals or the ceiling, preventing it from penetrating into cracks and crevices or the undercarriage of a stretcher or the passenger seat. MoonBeam3 is uniquely designed for environments other systems simply cannot disinfect. It’s UV-C when and where you need it for on-demand disinfection at the required germicidal frequency, providing the right power in the right time and the right angle of incidence to targeted surfaces.

Third-party independent lab antimicrobial effectiveness testing proves MoonBeam3 efficacy:

Enveloped Viruses					
Influenza A virus, ATCC VR-544, Strain A/Hong Kong/8/68	1.2 m	3 min	>5	99,999	
Respiratory Syncytial Virus (RSV)	1.2 m	3 min	>4	99.99	
Gram Negative Bacteria					
CR <i>Escherichia coli</i> (CDC 81371) - (carbapenem-resistant, CRE)	1.2 m	3 min	>5	99.999	
MDR <i>Acinetobacter baumannii</i> (ATCC BAA-1605)	1.2 m	3 min	>4	99.99	
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	1.2 m	3 min	>5	99.999	
Gram Positive Bacteria					
<i>Enterococcus faecalis</i> - VRE (ATCC 51575) (Vancomycin-resistant; VRE)	1.2 m	3 min	>4	99.99	
methicillin-resistant <i>Staphylococcus aureus</i> - MRSA (ATCC 33592)	1.2 m	3 min	>6	99.9999	
Non-Enveloped Viruses					
Norovirus (via feline calicivirus surrogate)	1.2 m	3 min	>4	99.99	
Poliovirus	1.2 m	3 min	>5	99.999	
Tuberculocidal					
<i>Mycobacterium bovis</i> (TB surrogate)	1.2 m	3 min	>4	99.99	
Spores					
<i>Clostridium difficile</i> - spore form (ATCC 43598) - no soil	1.2 m	3 min	>3	99.9	
<i>Clostridium difficile</i> - spore form (ATCC 43598) - with soil (5% fetal bovine serum)	1.2 m	3 min	>3	99.9	

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“MoonBeam3 has been very effective to keep our emergency responders and patients safe. Our paramedics use chemical cleaners in conjunction with UV-C after all high risk transports to fully disinfect vehicles within 15 minutes. Because it’s light and portable, we have used it in our fire station, police department and dispatch center to improve safety for all and to better manage risks.”

--- John Desmarteau, Assistant Chief
Middleburg Heights Fire Department

FEATURED NEWS

I-Team: High-tech fight to kill COVID-19 with MoonBeam3

March 30, 2020

(WJW) – The FOX 8 I-TEAM shows how a local company is helping to lead a high-tech fight against the spread of the deadly coronavirus.



"MoonBeam3 is a great tool. The UV light finds all the spots we miss during our manual wipe downs, plus we can flip the arms upside down to dose the ceilings, completely disinfecting the back of an ambulance in a matter of six minutes. We have disinfected well over 450 ambulances and police cars in a three week period. It's really helping to keep staff safe."

--- Nick DiCicco, Director, Chagrin Valley Regional Dispatch Center & Paramedic/Firefighter, Orange Village Fire Department

Specifications

- UV-C head physical range: 6" (15 cm) to 84" (210 cm) high
 - High continuous power ballasts, high-output soft glass emitters 95W, 304uW/cm² per emitter¹
- 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.

Call Daylight Medical at 800.459.8500
or visit us at www.daylightmedical.com
for more information.

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¹Lamp 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 and represent average values. All registered and unregistered trademarks are the property of their respective owners. Patented technology, additional patents pending. Patents: www.diversey.com/virtual-patent-marking
Diversey MoonBeam3 is distributed by Daylight Medical and manufactured in Middleburg Heights, Ohio USA.



MoonBeam³

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