



American Ultraviolet®

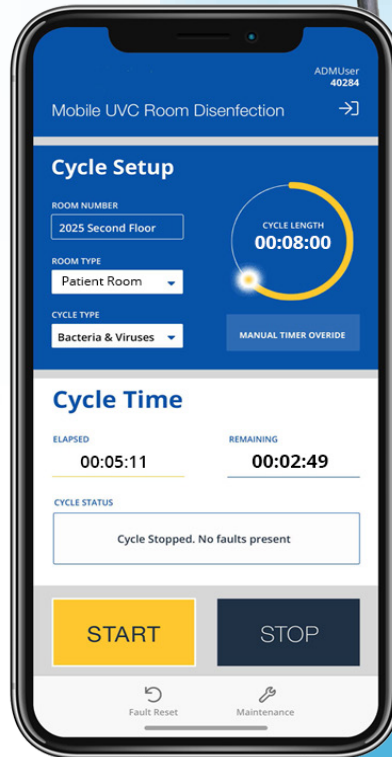
Insightful Solutions. Remarkable Results. Since 1960.

The MRS33-8 mobile UVC unit can accommodate medium to large sized rooms, including patient, social, office, daycare environments, schools and universities. It can easily fit into public transportation vehicles for quick disinfection.

UVC energy has been shown to inactivate microorganisms and viruses on surfaces and in the air providing an additional layer of cleaning to many environments.

FEATURE

- Control with WiFi-enabled device
- Downloadable WiFi reports
- Track user and location
- Eight (8) 33" slimline UVC lamps
- Polished reflector for maximum intensity
- Small footprint allows for use in tight spaces
- Passive infrared motion and heat sensors for 360° automatic shut off
- Large, high-quality locking casters
- Operates at 120 or 220 Volt; 50/60 Hertz
- Formed stainless tube structure protects lamps/simplifies handling and transport



UVC Lamps (8)



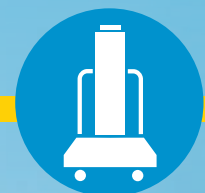
360° Motion Sensor

UVC Germicidal Solutions



MRS33-8

8-Lamp Mobile Room Solution



MRS33-8

8-Lamp Mobile Room Solution

Each microorganism has a specific k-value, which simply means that a specific amount of UVC dose (UVC Dose = UVC intensity x time) will break the DNA / RNA bonds of the DNA / RNA chain. When a certain amount of UVC dose is applied, the microorganism will no longer be able to replicate².

Using the American Ultraviolet Inactivation Chart¹ and the table on this page, cycle times can be estimated by targeting the lethal dose for the microorganisms.

APPROXIMATE UVC DOSE (mJ/cm²) AT VARIOUS DISTANCES

1 mJ/cm² = 1000 μW-s/cm²

| Time (minutes) | 24"(0.6m) | 36"(0.9m) | 60"(1.5m) | 120"(3m) |
|----------------|-----------|-----------|-----------|----------|
| 5 | 620 | 325 | 120 | 30 |
| 10 | 1240 | 650 | 240 | 60 |
| 15 | 1860 | 974 | 361 | 92 |
| 30 | 3719 | 1947 | 722 | 184 |
| 45 | 5579 | 2921 | 1082 | 275 |
| 60 | 7438 | 3895 | 1443 | 367 |



One size mobile UVC device does not fit all environments and budgets. We offer solutions that fit.

| COMPARISON OF MOBILE UVC DEVICES | | | | |
|----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------------------|
| | ARTZ 2.0® | MRS45-12 | MRS33-8 | MRS14-4 |
| Lamp Qty | 24 | 12 | 8 | 4 |
| Lamp Size | 45" | 45" | 33" | 14" |
| Controller | Any WiFi enabled Device | Any WiFi enabled Device | Any WiFi enabled Device | Digital Controller w/ Remote ON/OFF |
| Data Logging | Yes | Yes | Yes | No |
| 360° Motion & IR Sensing | Yes | Yes | Yes | Yes |
| Weight | 130 lbs (59kg) | 95 lbs (43kg) | 80 lbs (36kg) | 20 lbs (9kg) |
| Dimensions | 67"H x 28"W x 31"D | 67"H x 26"W x 26"D | 47"H x 20"W x 20"D | 25"H x 10"W x 10"D |
| Amperage Draw at 120V | 15A | 8A | 4A | 1A |
| Power Cord | Retractable 20' | 15' | 15' | 8' |
| Replacement Lamps | GML 515 | GML 515 | GML 100 | GML 600A |

¹ Based on current literature such as Ultraviolet Germicidal Irradiation Handbook 2009 by Kowalski;

² ASHRAE Applications Handbook Ch 62 UVC for Air and Surface Disinfection

All American Ultraviolet mobile devices are designed to provide UVC energy. No warranty is offered, or responsibility taken, by American Ultraviolet, in regards to the process or efficacy of the device, as American Ultraviolet has no control over the use of the device. American Ultraviolet makes no claims to the actual log reduction of microorganisms, as it can greatly vary depending on environment. UVC is an adjunct cleaning method, and dirt, dust, and debris should be removed from surfaces before UVC application..

Prolonged, direct exposure to UVC light can cause temporary skin redness and eye irritation. American Ultraviolet devices are designed with safety in mind and, when used in accordance with the Operation and Maintenance Manual, do not allow exposure to UVC radiation, and do allow for safe operation and maintenance.



American Ultraviolet®

Insightful Solutions. Remarkable Results. Since 1960.

