



American Ultraviolet®

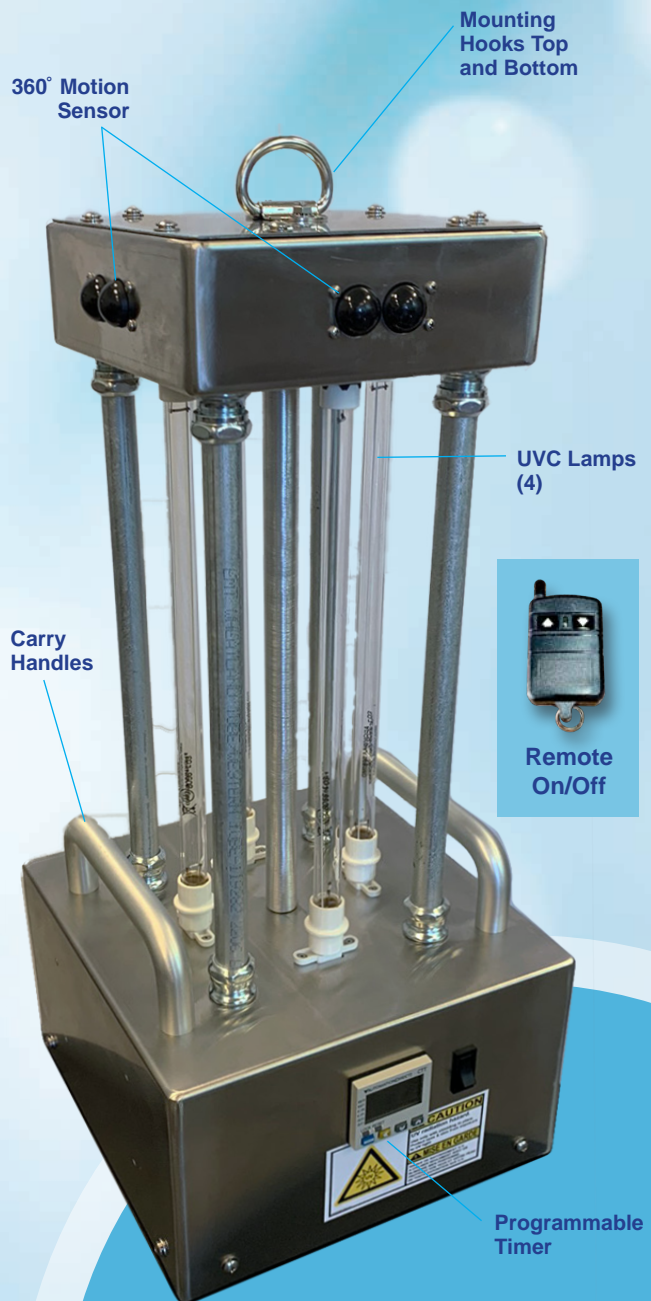
Insightful Solutions. Remarkable Results. Since 1960.

The MRS14-4 mobile UVC unit is ideal for small environments, including EMS, law enforcement / military vehicles, small offices, veterinary / kennels, and restaurants. It can be placed onto surfaces, or it can be suspended from one of the hooks on the top or bottom.

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.

FEATURES

- 360° passive infrared motion and heat sensor safety shut-off
- Four (4) 14" slimline UVC lamps
- Type 304 stainless steel construction
- Audible start / stop alarm
- Programmable cycle timer
- Remote control for cycle start/stop
- Eye hooks on top and bottom to suspend unit upright or upside down
- 8' grounded power cord

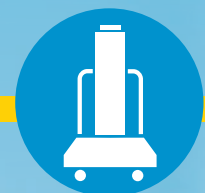


UVC Germicidal Solutions



MRS14-4

4-Lamp Mobile Room Solution



MRS14-4

4-Lamp Mobile Room Solution

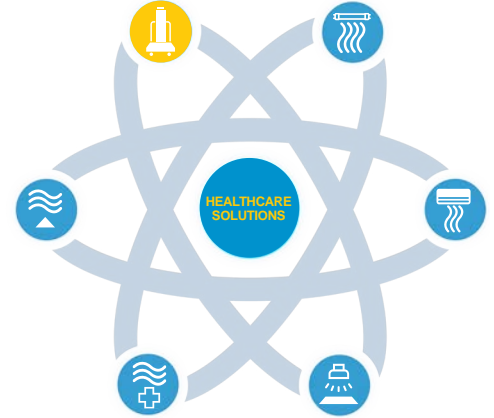
Each microorganism has a specific k-value, which means that a specific amount of UVC dose (UVC Dose = UVC intensity x time) will break the DNA / RNA bonds of the DNA / RNA chain. When a certain amount of UVC dose is applied, the microorganism will no longer be able to replicate².

Using the American Ultraviolet Inactivation Chart¹ and the table on this page, cycle times can be estimated by targeting the lethal dose for 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	78	35	12	3
10	156	70	25	6
15	234	105	37	9
30	468	209	74	19
45	702	314	111	28
60	936	419	148	38



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	Onboard Touchscreen w/ Remote ON/OFF	Onboard Touchscreen w/ Remote ON/OFF	Digital Controller w/ Remote ON/OFF
Data Logging	Yes	No	No	No
360° Motion & IR Sensors	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.

