

LET'S STOP THE VIRUS !

Use the DIS-UV-GI Disinfecting Machine

The current pandemic with the SARS-CoV-2 virus (COVID-19) has an unprecedented impact on enterprises and public facilities. Because of its high infectiousness, extreme economic and social measures have been taken to prevent its spread.

Sars-CoV 2 is very infectious and can besides this, also survive 3 days outside the human body on many common used materials. The risk of contamination will be greatly reduced by regular disinfecting of rooms where people have to get together.

UVC radiation can kill fungi, bacteria and viruses. The technology has been used over 40 years in stationary facilities like hospitals and cold stores and airplanes. With that UVC technology, water, air, pharmaceuticals and food processing are successfully disinfected.

Mobile UVC machine

We have a yearlong experience with production of Mobile UVC machines that protect growing plants from fungi, bacteria and viruses using UVC technology.

Bases on this knowledge and experience, Micothon has developed the **self-propelled DIS-UV-GI** for disinfection of common rooms in buildings.



Fig. 1 : DIS-UV-GI disinfecting; flaps are open

What does the DIS-UV-GI do?

- The DIS-UV-GI can easily and effectively disinfect common rooms inside buildings thus killing viruses and bacteria and highly increasing the safety of the humans in the building
- The DIS-UV-GI is designed for disinfecting all rooms in a building that have an entrance of 1.90 m high and 0.50 m wide.

Examples where the DIS-UV-GI can be successfully implemented for disinfection:

1. Companies: reception, toilets, expedition, canteen, offices.
2. Supermarkets: Shelves , pay desks, entrance hall.
3. Hotels: rooms, hall's, elevator, lobby, toilets.
4. Public transport: trains, busses, waiting area, metro.
5. Schools: canteen, classrooms, gym, hall, toilets, elevators.
6. Childcare: entrance and exit halls..
7. Doctor's practice and medical centres: reception and waiting area.
8. Private houses (especially for people with higher risk):living room, hall, washroom.

Technical base of the UVGI+.

The UVGI+ is equipped with 2 technologies:

1. UVC light emitting lamps for dry disinfection. The UVC light causes disintegration of bacteria and viruses without leaving residue's.
2. Option: additional spray system for disinfection with fluids.

The DIS-UV-GI is self-propelled but an operator is required to direct its movement.

You can easily disinfect a room by driving around for some minutes to let the UVC light kill bacteria and viruses.



Fig 2: DIS-UV-GI flaps automatically covered

Safety.

Skin: UVC cannot pass the skin surface. In the areas with a thicker skin(like our hands) there will be hardly any effect. In the areas with a thinner skin like our face, UVC can cause a red skin, similar to sunburn. Given the high energy of the shortwave UVC radiation, it does not take a large amount to see the effects. The effects can simply be prevented by covering the skin.

Eyes: UVC light can also irritate the mucous membranes of our eyes (like a sunburn). This can feel painful, a burning feeling like sand in the eyes.

This effect is also known as welding eyes or snow-blindness.

Our eyes can easily be protected by wearing random safety glasses or face mask.

Safety precautions on the DIS-UV-GI:

1. The DIS-UV-GI **will automatically close the flaps** the moment the machine stops driving. See fig 2.
2. The operator is protected by a plastic window shield.
3. The DIS-UV-GI is equipped with a safety switch to prevent collision with the operator.

General safety rule: Bystanders are not allowed within 5 m of the DIS-UV-GI when it is working.

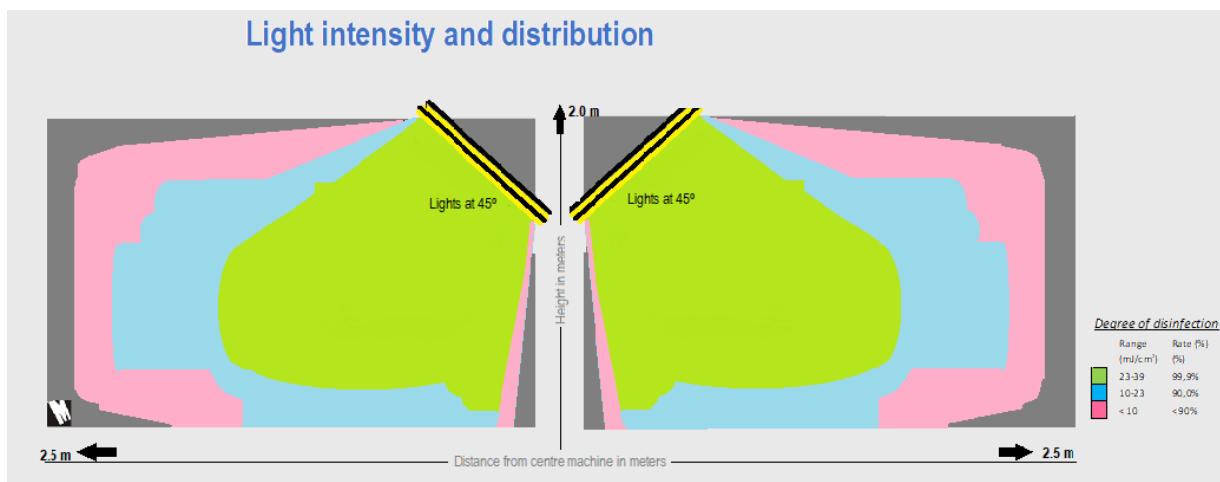
Technical data of the DIS-UV-GI

1. Configuration of the DIS-UV-GI:

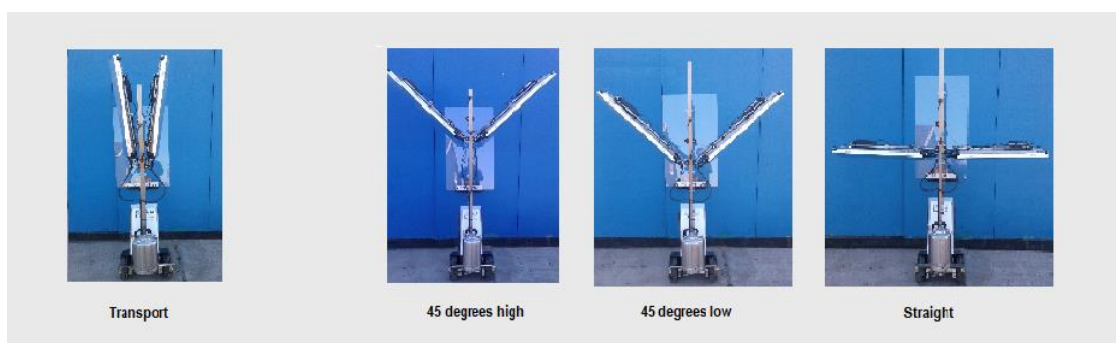
Self propelled car
 2 massive rubber wheels 300 * 4; + 2 castor wheels.
 4 x 85 W UVC units, 2 on each side.
 Automatically closing flaps
 Double layer tube lamp type
 Electronic lamp controllers for stable output.
 2 spray nozzles
 Tank for spray fluid
 Incl charger for batteries.
 Protective screen for driver
 Easy control steering unit.
 Easy Adjustable lamp position
 Advised working speed 3-3.5 m/min
 Capacity with 4 m1 wide treating area: 300-600 m2/hr

2. Sizes

Length	117 cm
Width folded	50 cm
Width wide	200 cm
Width wheels	50 cm
Min Hight	1.90 cm
Weight	138 kg
Powered	24 V / 40 Ah Lithium battery;
Indication working time	2 till 3 hours
Fluid tank content	10 l
Option	Second Lithium batteries (double working time)



Examples for optimization of the lamps working positions :



DISTRAME SA

Parc du Grand Troyes - Quartier Europe Centrale 40 rue de Vienne - 10300 SAINT-ESME
 Tél. : 03 25 71 25 83 - Fax : 03 25 71 28 98 - infos@distrame.fr - www.distrame.fr