

Dinies . . . . .

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UV Mobil 1100





UV TREATMENT  
WITH ADDITIONAL  
**IONIZED  
AIR**  
ELIMINATES PATHOGENIC  
GERMS BY UP TO  
**99.999%.**



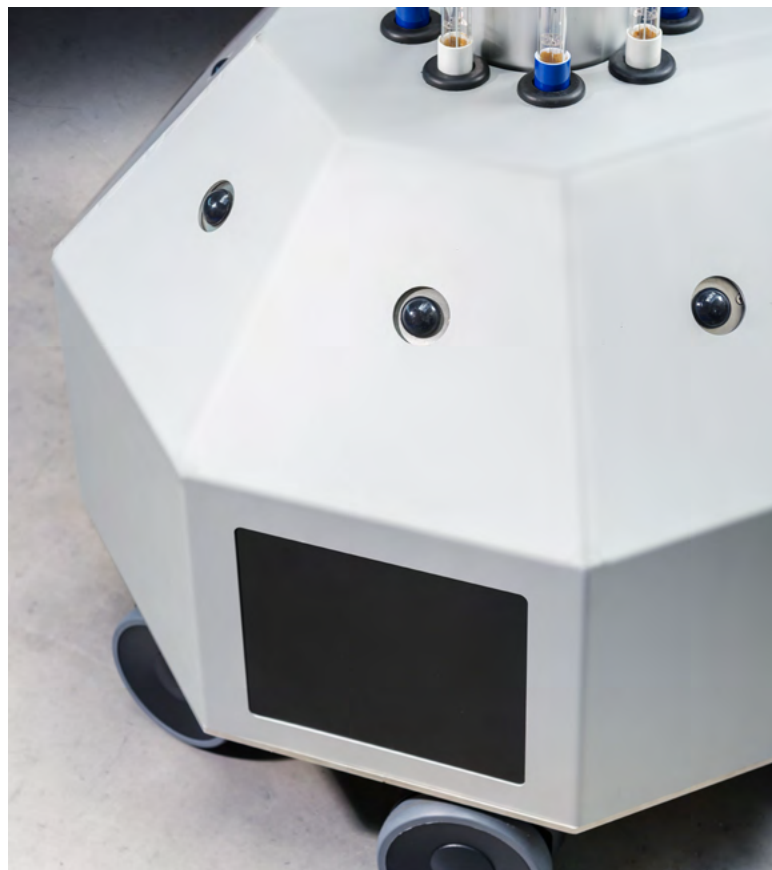
# 1 UVMobil 1100

The **Dinies UV-Mobil 1100** was specially developed for disinfecting surfaces and air in the medical sector.

During development, care was taken to ensure that no shadow areas are created due to the design and that the strong UV-C light can optimally disinfect both the air and the surface. The UV-C lamps are used in a free-radiating manner without a screen.

Operation is therefore only possible in rooms where there are no people. The UV-C light and ionized air disinfect the surfaces through direct and indirect irradiation. The air is also disinfected at the same time.





- Disinfection with UV-C and ionized air
- Automatic room recognition with RFID
- Automatic pre-settings based on individual room dimensions
- Tablet operation and status query outside the room to be treated
- Level control for ionized air in the room
- Controlled ventilator to distribute the ionized air in the room
- Operating hours counter
- Safety motion defectors
- Data logging (user, room, time, runtime, concentration of ionized air)
- Fast UV treatment due to powerful UV tubes
- Lamp cooling for better performance
- Aluminum enclosure for better reflection

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## FEATURES



# 3

## APPLICATION

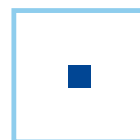


1



Scan the RFID tag of the room using the RFID scanner. Room parameters are loaded automatically.

2



Place the device in the center of the room.

3



Leave the room and start the cleaning process using the tablet.

4



In the first operating phase, the ionized-air-generating UV-C lamps are ignited. These convert atmospheric oxygen into ionized air.



5



In the second operating phase, the UV-C lamps are switched on. The UV-C light directly and indirectly disinfects the surfaces and the room air. The operating time for the ionized air is determined based on the size of the room to be disinfected, the UV treatment operating time is dependent on the concentration of ionized air and ambient conditions.



In a project with the HFU Furtwangen, a **pathogenic germ load of 44%** was observed in patients' rooms after regular wipe disinfection.

This is, in part, a consequence of the high cost-pressure placed on hospitals and cleaning staff.

Future patients are at a **high risk of infection**.



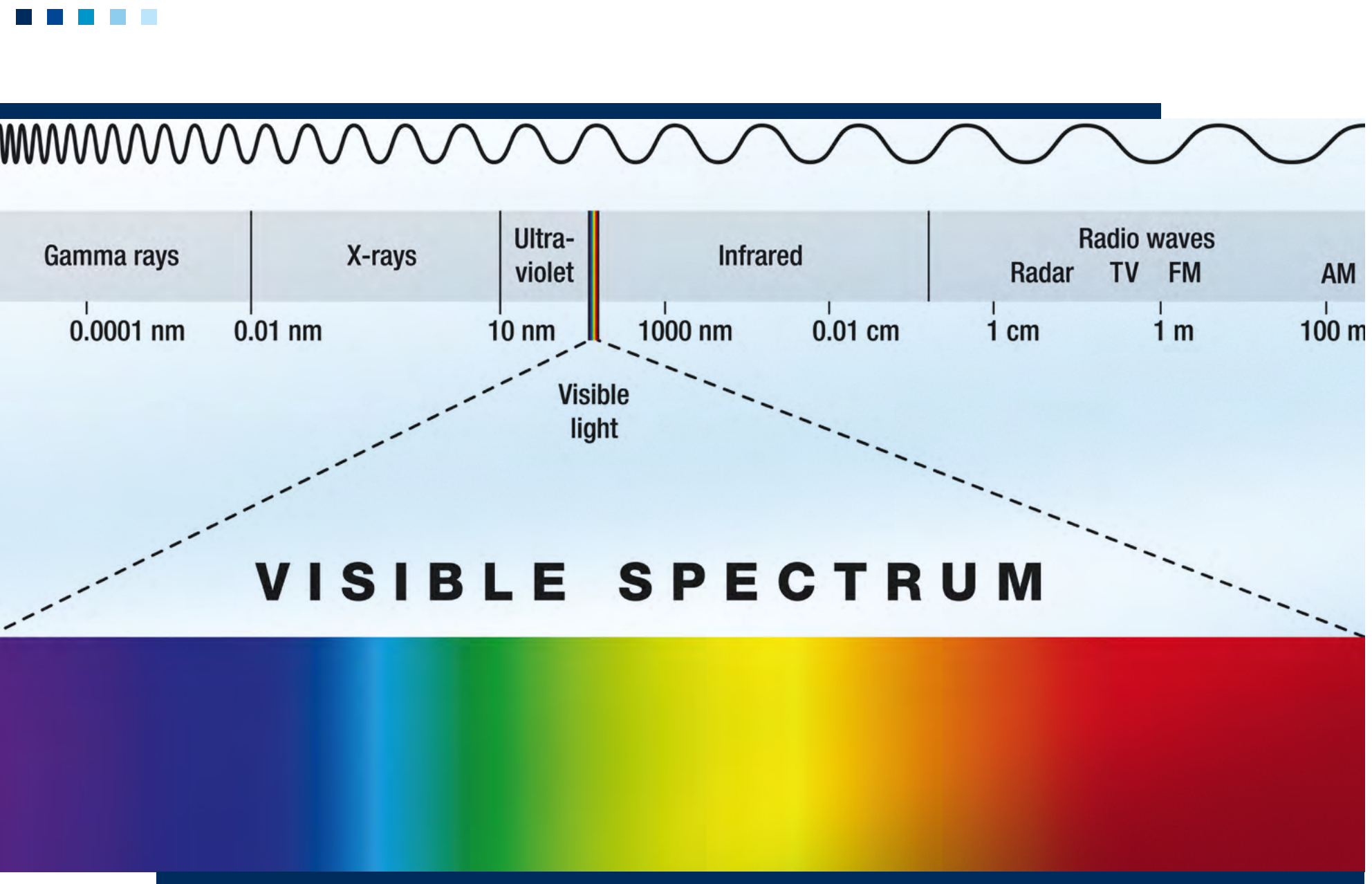
## INACTIVATION

**Inactivation within  
10 minutes at a distance  
of 3.6 m**

- **99.9% (log 3)**  
Clostridium perfringens  
Norovirus
- **99.99% (log 4)**  
SARS-CoV
- **99.999% (log 5)**  
Clostridium tetani, Escherichia coli,  
Klebsiellapneumoniae, Listeriamonocytogenes,  
Mycobacterium bovisBCG, Serratiamarcescens,  
Staphylococcus aureus, Staphylokokkus epidermis,  
Adenovirustype 3, Enterovirus, Hepatitis A+B virus,  
Influenza, Poliovirus, RotavirusSA 11

# RESISTANT GERMS





## UV-C LIGHT

Effective hygiene with UV-C: Microorganisms exposed to sunlight are killed naturally. According to this principle from nature, artificial UV-C light was developed many years ago. UV-C light is short-wave radiation in the range of 280-100 nm which is not visible to the human eye.

In the area of 254 nm, UV-C light has a strong germicidal effect, so even dangerous germs, bacteria, viruses and mold spores will be destroyed within a short amount of time without the use of chemicals.

The DNA of the microorganisms is changed in the core so that reproduction is no longer possible. As a result the microorganisms die. The ultraviolet light is therefore an economical and environmentally friendly alternative to chemical disinfection.

Ionized air is an extremely effective disinfectant for the sustainable elimination of unpleasant odors and harmful microorganisms.

Derived from natural processes, UV-C light is produced in a controlled manner which, in combination with oxygen, generates ionized air. Odor molecules are broken down and removed without leaving any residue. Existing microorganisms are destroyed by the treatment in the core.

A major advantage of treatment with ionized air is that odors are neutralized and germs are removed without the use of chemicals. Any remaining ionized air decomposes back into oxygen.



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IONIZED AIR