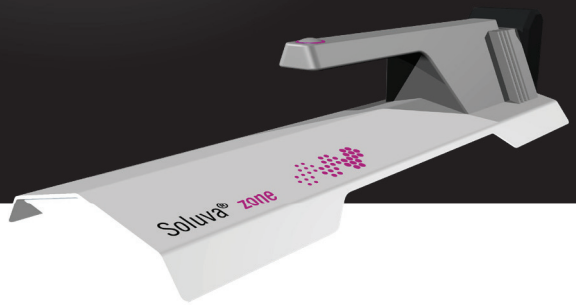
UV disinfection for public transportation

No chance for germs: effective air and surface disinfection for buses, trains, cruise ships and airplanes.

Local and long-distance public transportation is considered a place of comparatively high risk infection: In buses, trains and similar means of transport, many people come together in relatively small spaces, often over a longer period. Ideal conditions for virus transmission.



Soluva® Zone H

Mobile system for surface sterilization.

Soluva® Air V

Permanently installed system for air disinfection in ventilation systems.

99,99%
Inactivation of the Covid-19 pathogen, tested on two Heraeus Soluva® products

Proven in cooperation with the University Hospital of Tübingen

Protect your passengers reliably

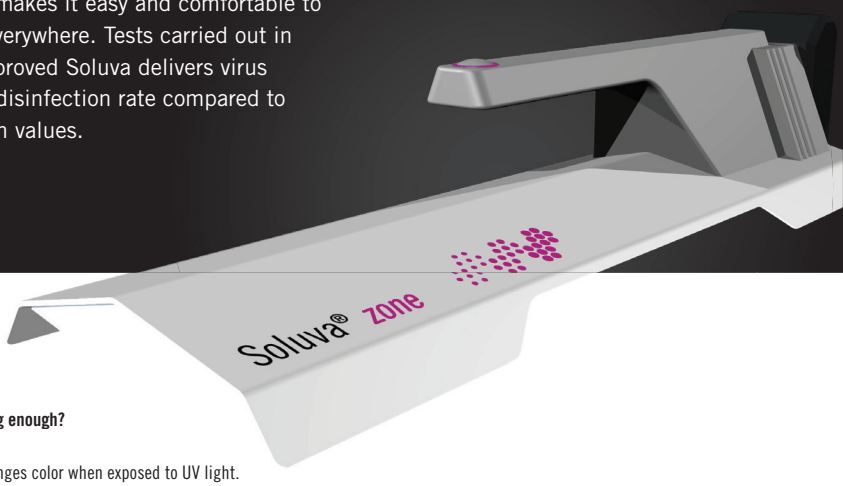
There is a reliable solution to protect your passengers and employees: disinfection with UV light. The advantages: UV disinfection is highly efficient, provides fast results, and is dry and chemical free. It is also low-maintenance and easy to install.

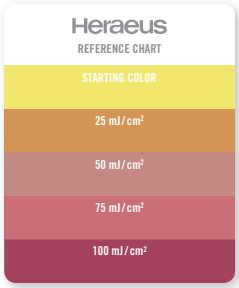
UV light has been used for years to disinfect surfaces, air and water - for example to disinfect drinking water and the packaging of sensitive products such as baby food. Singapore airport uses UV lamps to keep the air clean and protect against germs. The DNA of the microorganisms absorbs the UV light which then destroys the cell structure.

Heraeus Noblelight, the inventor of the UV lamp, has many years of experience with disinfection solutions. We recently developed a disinfection product line which offers an ideal solution for public transportation: Soluva® UV.

Soluva® Zone H

A mobile, user-friendly handheld disinfection system makes it easy and comfortable to disinfect all surfaces and shapes - for everyone and everywhere. Tests carried out in cooperation with the University Hospital of Tübingen proved Soluva delivers virus inactivation of 99.99%. It delivers by far the highest disinfection rate compared to other disinfection solutions - with very short irradiation values.





How do I make sure a surface is exposed to UV for long enough?

The unit includes a UVC sensitive test strip, which changes color when exposed to UV light.
The color change of the test strip varies depending on the distance to the irradiating surface and the speed of movement. The darker the color, the higher the UV dose. The test strip provides an example of how long you must irradiate the surfaces to achieve the desired disinfection performance. The same speed and distance should then be applied to the rest of the object's surface. A UV dose of 25 mJ / cm² (orange color) is sufficient to achieve effective disinfection performance.

Advantages and technical data of Soluva® Zone H

- Handheld device for mobile use
- Ergonomically optimized and light weight - reduces user fatigue and enables overhead disinfection
- Easy to operate
- Fast disinfection times
- Disinfects different sizes and shapes of objects
- Material-friendly chemical-free, dry disinfection
- Long operating life
- Use with any domestic power source (normal plug connection)

- Number of installed radiators: 2
- Low pressure technology
- Expected lamp life: Up to 1,000 hours
- Electrical power: 170 Watt
- Dimensions: (L × H × W) = 400 mm × 210 mm × 145 mm
- Weight: approx. 2 kg

CE

Don´ts

UV radiation should not be directed onto persons, animals, or plants. Please cover skin and shield eyes completely.

Please read our safety instructions: heraeus-noblelight.com/UVSafety

Applications

- Production machines
- Vehicles - interior and exterior
- Aircraft
- Public transportation
- Office (Keyboard, storage surfaces, copier)
- Handrails
- Fittings in restrooms

Soluva® Air V

Permanently installed into your transportation ventilation system, this sterilization solution disinfects 3,000 m³/h air. You can use it with either an existing ventilation system, or we can design a custom-fit solution for circulating air inside your transportation vehicle.

Advantages and technical data of Soluva® Air V

- Save and reliable disinfection (up to 3,000 m³/h)
- Proven efficient protection for passengers and employees (viruses cannot build up resistance to UV light)
- Immediately ready for use after each start (also in hot or cold weather)
- Operation via the on-board power supply, continuous operation even while driving
- Customized system for your individual conditions
- Easy retrofitting possible
- Long service life: use of the most efficient low-pressure amalgam lamps
- Environmentally friendly & chemical free

- Disinfection volume: up to 3,000 m³/h
- High efficiency low pressure amalgam lamps
- Service life: up to 16,000 h
- Electrical power: 10 - 1,200 Watt
- UVC power: up to 40 Watt
- Operating current: 230 V / 50 Hz
- AC/DC compatible

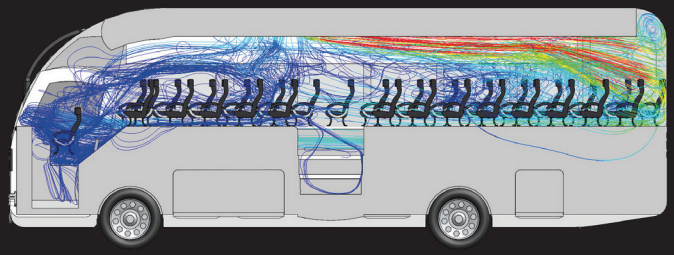
Applications

Efficient air cleaning in public transportation such as:

- Buses, subways and trains
- Cruise ships
- Airplanes

We know what we do

For effective air disinfection it is crucial to design the UV solution exactly to your specific ventilation systems. Important parameters include the air flow, materials, cross section and radiator arrangement in the duct, and the air temperature and humidity. Our UV experts developed a simulation tool that factors in these parameters to precisely tailor a system to your required disinfection capacity and level of safety.



Examples of Heraeus expert simulations to the radiator design.

Simple and fast

Fast delivery!

1. We simulate the air flow in your specific transportation vehicle using our proprietary simulation tool.
2. We then optimize the system design to fit your specific conditions.
3. Upon request, our Service Technician can install the system.
4. We are happy to maintain your system.

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