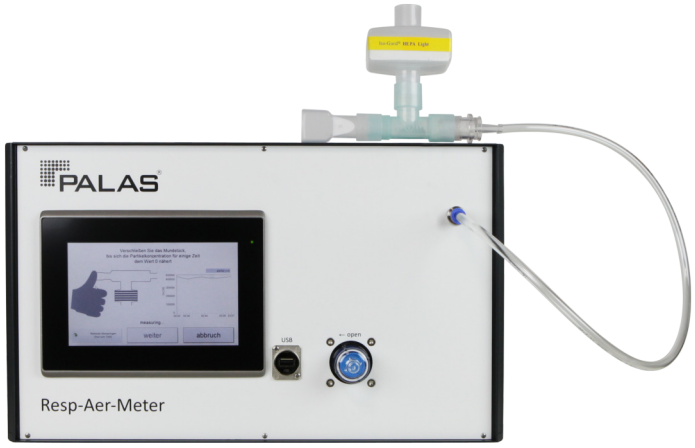
Resp-Aer-Meter



Viruses such as Covid-19 or flu viruses spread as aerosols and infect other people through the respiratory tract.

Superspreaders or superemitters are people who exhale a particularly high number of pathogens. They are therefore considered to be particularly infectious. The Resp-Aer-Meter helps to identify superspreaders and initiate appropriate safety measures.

Benefits

- So-called "superemitters" can be identified in 30s thanks to a high number of particles
- Fast differentiation between infectious and less infectious Covid-19 carriers
- Measurement of the aerosol concentration and aerosol size in exhaled air
- Detection of particles from 145 nm to 10 μm
- Highest resolution, especially in the virus size range from approx. 145 nm to 1 μm
- Immediate evaluation and documentation of the measurement result

Applications

- Detection of potential superemitters (Covid-19, flu virus)
  - in industry, e.g., meat processing, automotive, chemistry
  - in airports, train stations, public buildings
  - at events such as trade fairs and seminars
  - in hospitals and nursing homes

Model Variations

Resp-Aer-Meter Infection Guard

The Resp-Aer-Meter Infection Guard helps to identify potential superspreaders and thus to detect a potential risk of infection - for example in athletes

https://www.palas.de/en/product/Resp-Aer-Meter_Infection Guard

Resp-Aer-Meter Scientific

The Resp-Aer-Meter Scientific offers a wide range of additional information and data and can be used for scientific applications, for example in the medical field

https://www.palas.de/en/product/Resp-Aer-Meter_Scientific

DATASHEET

Measuring principle	Optical light-scattering
Measurement range (number C_N)	0 – 20,000 particles/cm³
Measurement range (size)	0.15 – 10 μm
Volume flow	9.5 l/min
User interface	Touchscreen, 800 • 480 pixel, 7″ (17.78 cm)
Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Power consumption	Approx. 200 W