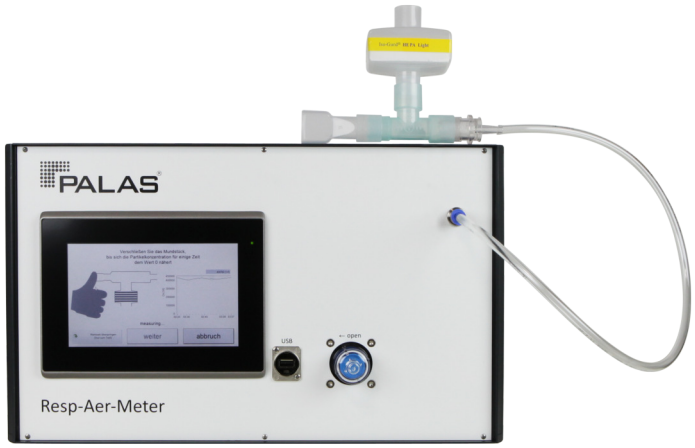
Resp-Aer-Meter Infection Guard



Superspreaders or superemitters are people who have a particularly high number of pathogens in the air they breathe. They are therefore considered to be particularly infectious.

The Resp-Aer-Meter Infection Guard helps to identify respective persons and corresponding infection risks among athletes. This allows to 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 superspreaders, for example in professional team training or rehearsals

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