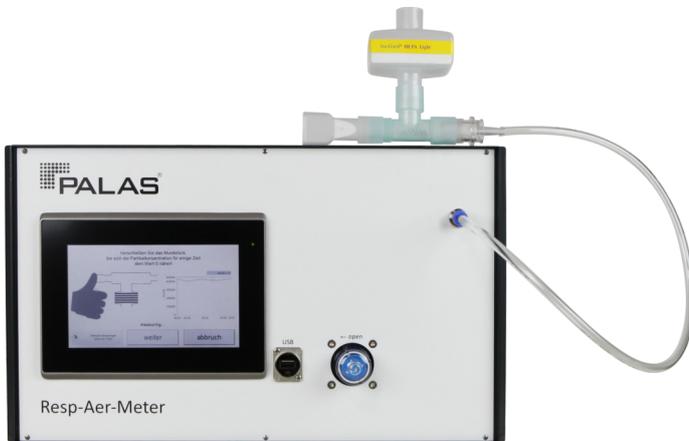# Resp-Aer-Meter Infection Guard



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.

## Operation principle

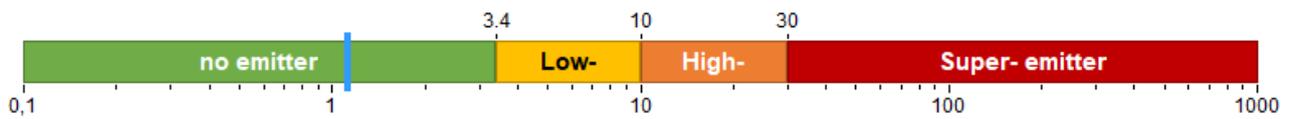### Identify potential superspreaders

The evaluation takes place immediately, with the device determining how many particles of what size are in the breath. This serves as an indicator of a possible disease. If a specific value is exceeded, the tested person is considered infectious and can therefore be isolated from the group before infecting others.

Fig. 1: Results are shown on the display

## 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 $\mu$m

- Highest resolution, especially in the virus size range from approx. 145 nm to 1 $\mu$m

- Immediate evaluation and documentation of the measurement result

## Datasheet

| | |
|---|---|
| Measuring principle | Optical light-scattering |
| Measurement range (number $C_N$) | 0 – 20,000 particles/cm$^3$ |
| Measurement range (size) | 0.15 – 10 $\mu$m |
| 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 |

## Applications

- Detection of potential superspreaders, for example in professional team training or rehearsals

Mehr Informationen:
https://www.palas.de/en/product/Resp-Aer-Meter Infection Guard