



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

DATASHEET

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|--------------------------|---|-----------------------------------|--|
| Measuring principle | Optical light-scattering | Measurement range (number C_N) | 0 – 20,000 particles/cm ³ |
| 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 | | |