

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.

工作原理

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.

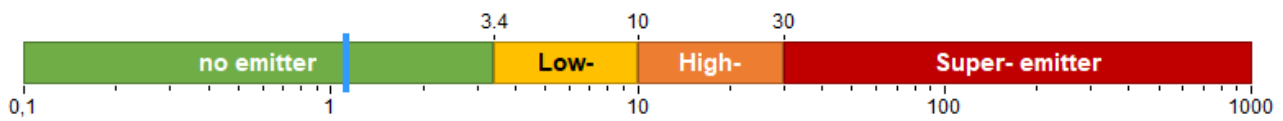


Resp-Aer-Meter result standard test

Aerosol-Emitting-Factor: 1,13

exhaled aerosols: 282 P/L

below 0.2 μm : 99 P/L



distribution

Cn

Fig. 1: Results are shown on the display

优势

- 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

技术数据

测量原理	Optical light-scattering
测量范围(数量浓度)	0 – 20,000 particles/cm ³
测量范围(粒径)	0.15 – 10 µm
体积流量	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

应用领域

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



Mehr Informationen:

[https://www.palas.de/zh/product/Resp-Aer-Meter In-
fection Guard](https://www.palas.de/zh/product/Resp-Aer-Meter-Infection-Guard)