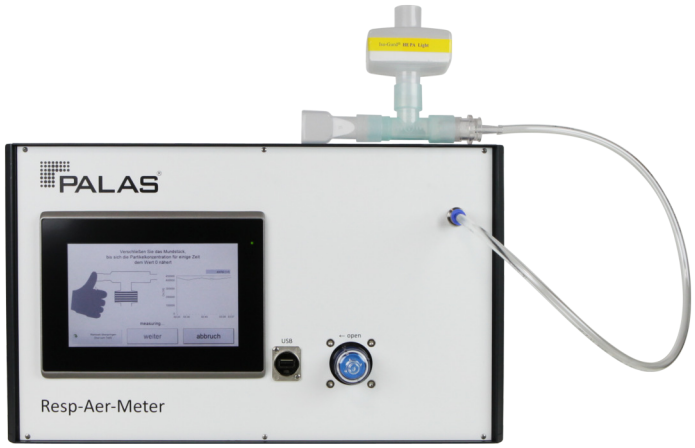
RESP-AER-METER INFECTION GUARD



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.

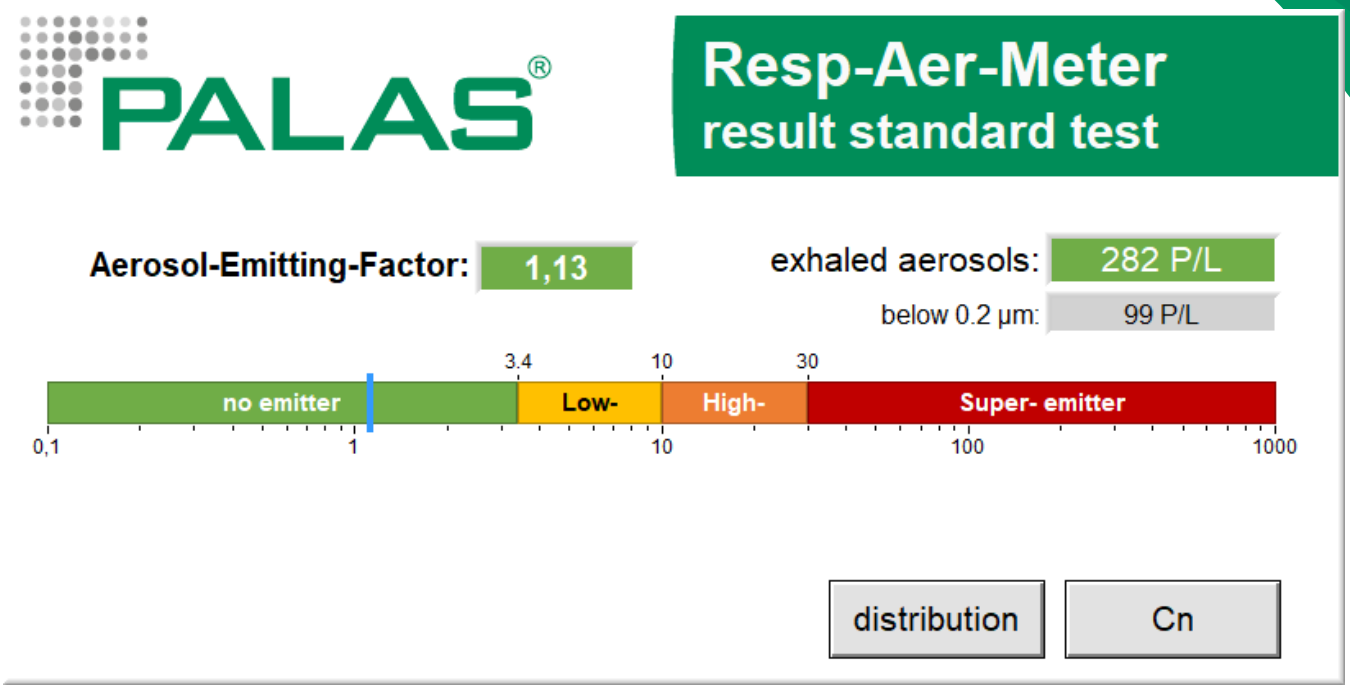


Fig. 1: Results are shown on the display

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 μm
- Highest resolution, especially in the virus size range from approx. 145 nm to 1 μm
- Immediate evaluation and documentation of the measurement result

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

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