

# AIRMODUS

Particle Size Magnifier

Nano Condensation Nucleus Counter



# COUNTING AND DETECTING INDIVIDUAL AEROSOL PARTICLES DOWN TO MOLECULAR SIZES

AIRMODUS TECHNOLOGIES ARE FILLING THE GAP BETWEEN AEROSOL PARTICLE SIZE DISTRIBUTION MEASUREMENTS AND GAS PHASE MONITORING.

Nucleation researchers can observe clusters of molecules and the nucleated particles when they are as small as 1 nm. And, learn further about the growth of the particles using the activation spectra of 1–3 nm particles.



Airmodus A10 PSM  
Particle Size Magnifier



Airmodus A11 nCNC  
Nano Condensation Nucleus Counter  
– system

COUNT PARTICLES AS SMALL AS 1 nm IN REAL TIME  
DETECT ALSO THE NEUTRAL NANOPARTICLES  
ACTIVATION SPECTRA FOR 1–3 nm AEROSOL PARTICLES  
DETECT NUCLEATION IN SITU AS IT HAPPENS  
STUDY THE FORMATION AND GROWTH OF 1–3 nm PARTICLES



## Airmodus A10 PSM

A10 PSM grows nano-sized aerosol particles into sizes that can be detected with a standard CPC. Particles as small as 1 nm can be counted.

- Study and monitor particles smaller than the detection threshold of any CPC.
- A10 PSM can be combined with any CPC.

## Airmodus A11 nCNC

A11 nCNC is a complete system consisting of a particle size magnifier, a particle counter and operation software. It can be used with fixed cut-off to count total particle number from the cut-off size to 1 micron

- Indicator for the presence of very small aerosol particles.
- The cut-off can be selected by the User.

A11 nCNC in scanning mode gives the activation size distribution for 1–3 nm particles.

- Learn about the characteristics and dynamics of the 1–3 nm particles.
- The A11 operation software contains all the necessary inversion algorithms to define the activation spectra for the nucleated aerosol particles.

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## IT'S THE SMALL THINGS THAT COUNT

Whether you are studying ambient or engineered aerosol particles, the scientific measurement instruments by Airmodus will help you reach your research goals.

