

# U-SMPS 2050/2100/2200



U-SMPS (Universal Scanning Mobility Particle Sizers) have been successfully used worldwide for many years for the precise selection of particle size with simultaneous measurement of the particle concentration of airborne particles in the sub-micron range. Depending on the combination of classifying column (DMA), control unit (DEMC), and particle counter, they cover ranges from a few nanometers to several micrometers. Different combinations are possible depending on the application and customer requirements.

Palas U-SMPS System can be operated directly with max. two different counters and also accepts third-party products of well-known manufacturers for direct comparison.

## 优势

- Particle size distributions from 4 nm to 1.2  $\mu\text{m}$
- Continuous and fast-scanning principle of measurement
- High resolution in up to 128 size classes/decade
- Suitable for concentrations of up to  $10^8$  particles/ $\text{cm}^3$
- Universally connects to DMAs and nanoparticle counters from other manufacturers
- Graphic display of measurement values
- Intuitive operation using 7" touchscreen and GUI
- Integrated data logger
- Supports multiple interfaces and remote access
- Low maintenance

\* Please contact Palas® for further details.

## 应用领域

- Filter test
- Aerosol research
- Environmental and climatic studies
- Inhalation experiments
- Interior and workplace measurements

## MODEL VARIATIONS



U-SMPS 2050 X/2100 X/2200 X  
Version for various applications of 4 – 1,200 nm with integrated X-ray ionization  
<https://www.palas.de/zh/product/usmps2050x2100x>

## 技术数据

测量范围(数量浓度)	0 – 10 <sup>8</sup> particles/cm <sup>3</sup>
测量范围(粒径)	4 – 1,200 nm
体积流量	0.5 – 3 l/min
Volume flow (sheath air)	2.5 – 14 l/min (others on request)
Size channels	Max. 256 (128/decade)
接口	USB, Ethernet (LAN), AUX, RS-232 (CPC only)
User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Data logger storage	4 GB
软件	PDAnalyze
Installation conditions	+10 – +30 °C (others on request)
Adjustment range (voltage)	1 – 10,000 V(UP and DOWN scan possible)
Data Management	Prepared for connection to the Palas Cloud MyAtmosphere ("MyAtmosphere-ready"); Internet access and separate registration required. The MyAtmosphere terms of use apply.

## 标准和证书

ISO 15900:2010, ISO 27891:2015, CEN/TS 17434:2020