

# U-SMPS 1050/1100/1200



Universal scanning mobility particle sizer for various applications (4 – 600 nm)

## Benefits

- Particle size distributions from 4 nm to 1.2 µm
- Continuous and fast-scanning principle of measurement
- High resolution in up to 64 size classes / decade
- Suitable for concentrations of up to 10<sup>8</sup> particles/cm<sup>3</sup>
- 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
- Reliable function
- Reduces your operating expenses

\* Please contact Palas® for further details.

## Applications

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

## Model Variations



U-SMPS 1050 X / 1100 X / 1200 X  
Universal scanning mobility particle sizer  
for various applications of 4 – 600 nm with  
integrated X-ray ionization

<https://www.palas.de/product/usmps1050x1100x1200x>



[https://www.palas.de/product/usmps1050\\_1100\\_1200](https://www.palas.de/product/usmps1050_1100_1200)

# U-SMPS 1050/1100/1200



## Datasheet

<i>Parameter</i>	<i>Description</i>
<b>Measurement range (size)</b>	
<b>Size channels</b>	4 - 440 nm
<b>Measurement range (number C<sub>N</sub>)</b>	up to 256 (128/decade)
<b>User interface</b>	0 - 10 <sup>8</sup> particles/cm <sup>3</sup> Touch screen, 800 • 480 pixels, 7" (17.78 cm)
<b>Power supply</b>	
<b>Data logger storage</b>	115 - 230 V, 50 - 60 Hz
<b>Software</b>	4 GB PDAnalyze
<b>Adjustment range (voltage)</b>	1 - 10,000 V
<b>Volume flow (sheath air)</b>	
<b>Installation conditions</b>	2.5 - 14 l/min  +10 - +30 °C (others on demand, control unit)

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