Large Integrating Spheres

For measurement of high powered LEDs and sources, Avantes offers the AvaSphere-100, -150 and -200. The number corresponds with the internal diameter of the spheres in millimeters.

The 100, 150 and 200 models come with three ports: at 0, 90 degrees and NP. The port of your choice is fitted with a baffled SMA-905 connector, please specify when ordering. Either of the other two ports can be used for illumination or sampling. The default sample port sizes are typically 25% of the sphere’s diameter. Port plugs or reducers are available on request.

All spheres can be attached to spectrometers via fiber-optic cables and the entire system can be irradiance calibrated to measure total flux of a lamp under test.

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>AvaSphere-100</th>
<th>AvaSphere-150</th>
<th>AvaSphere-200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength range</td>
<td>400-1100 nm</td>
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<tr>
<td>Internal diameter</td>
<td>102 mm</td>
<td>152 mm</td>
<td>203 mm</td>
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<tr>
<td>Port diameters</td>
<td>25.4 mm</td>
<td>38.1 mm</td>
<td>50.8 mm</td>
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<tr>
<td>Port Reducers</td>
<td>10 mm</td>
<td>10 mm</td>
<td>10 mm</td>
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<tr>
<td>External Dimensions</td>
<td>118 mm</td>
<td>168 mm</td>
<td>218 mm</td>
</tr>
</tbody>
</table>

**Ordering Information**

- **AvaSphere-100**
  - Integrating Sphere, 100 mm, 3 ports (0,90,NP), 1 baffled SMA port, incl. Postmount
- **AvaSphere-100-SMA**
  - Additional SMA port for the AvaSphere-100
- **AvaSphere-100-PR10**
  - Port reducer for the AvaSphere-100 to 10 mm
- **AvaSphere-100-PP**
  - Port plug for unused ports for the AvaSphere-100
- **AvaSphere-150**
  - Integrating Sphere, 150 mm, 3 ports (0,90,NP), 1 baffled SMA port, incl. Postmount
- **AvaSphere-150-SMA**
  - Additional SMA port for the AvaSphere-150
- **AvaSphere-150-PR10**
  - Port reducer for the AvaSphere-150 to 10 mm
- **AvaSphere-150-PP**
  - Port plug for unused ports for the AvaSphere-150
- **AvaSphere-200**
  - Integrating Sphere, 200 mm, 3 ports (0,90,NP), 1 baffled SMA port, incl. Postmount
- **AvaSphere-200-SMA**
  - Additional SMA port for the AvaSphere-200
- **AvaSphere-200-PR10**
  - Port reducer for the AvaSphere-200 to 10 mm
- **AvaSphere-200-PP**
  - Port plug for unused ports for the AvaSphere-200

For the latest information, go to www.avantes.com