**System for measuring the antenna radiation pattern and gain of a small antenna using anechoic box**

*Application*

By installing the optional 2-axis positioner, this system enables the spherical radiation power measurement. This system is inexpensive and easy to install compared with an anechoic room.

*Solution*

**System image**

![Image of system components]

- Large anechoic box
- 2-axis positioner (positioner controller)
- Receiving antenna (Biconical/Log periodic)
- Signal analyzer (for receiving)
- Automatic measurement software
- Calibration kit (standard signal generator / measuring antenna / rotary connector)
- RF cable

**Anechoic box/specification example**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside dimensions</td>
<td>approx. 2000(W)×1200(D)×1100(H) mm</td>
</tr>
<tr>
<td>Radio wave absorber</td>
<td>8 inch (20cm)</td>
</tr>
<tr>
<td>Frequency band</td>
<td>600MHz to 6GHz</td>
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</tbody>
</table>

**Automatic measurement software/specification example**

By installing 2-axis positioner in an anechoic box, the three-dimensional radiation pattern can be easily measured.