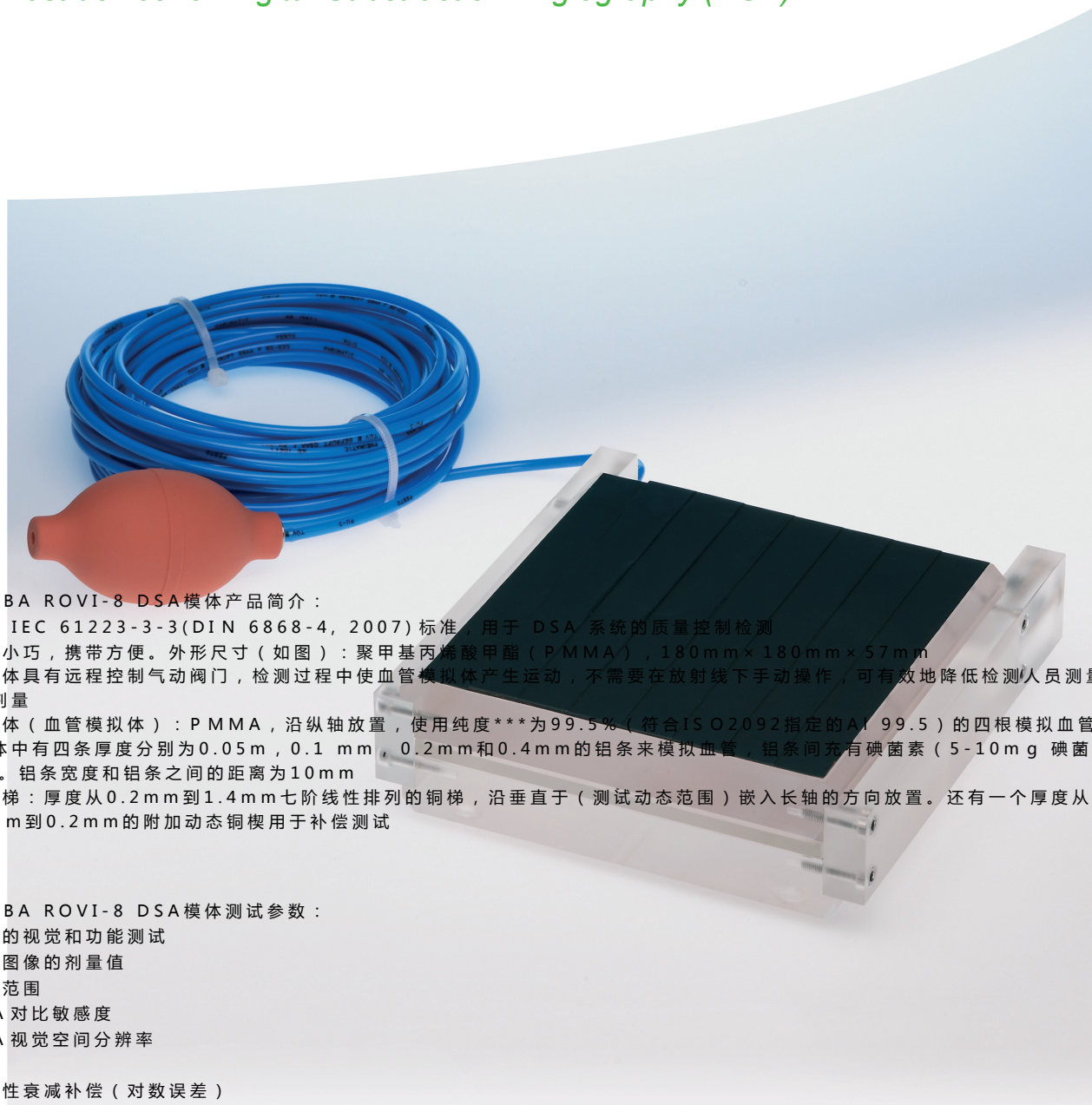


## Quality Assurance in Radiodiagnostics

### RöVi-8 |

*Test device for Digital Subtraction Angiography (DSA)*



德国 IBA ROVI-8 DSA 模体产品简介：

- 符合 IEC 61223-3-3 (DIN 6868-4, 2007) 标准，用于 DSA 系统的质量控制检测
- 体积小，携带方便。外形尺寸（如图）：聚甲基丙烯酸甲酯（PMMA），180mm×180mm×57mm
- 该模体具有远程控制气动阀门，检测过程中使血管模拟体产生运动，不需要在放射线下手动操作，可有效地降低检测人员测量时的受照剂量
- 嵌入体（血管模拟体）：PMMA，沿纵轴放置，使用纯度\*\*\*为99.5%（符合ISO2092指定的Al 99.5）的四根模拟血管密度。嵌入体中有四条厚度分别为0.05mm，0.1 mm，0.2mm和0.4mm的铝条来模拟血管，铝条间充有碘菌素（5-10mg 碘菌素/ml）。铝条宽度和铝条之间的距离为10mm
- 楔形梯：厚度从0.2mm到1.4mm七阶线性排列的铜梯，沿垂直于（测试动态范围）嵌入长轴的方向放置。还有一个厚度从1.4mm到0.2mm的附加动态铜楔用于补偿测试

德国 IBA ROVI-8 DSA 模体测试参数：

- 系统的视觉和功能测试
- 每幅图像的剂量值
- 动态范围
- DSA 对比敏感度
- DSA 视觉空间分辨率
- 伪影
- 非线性衰减补偿（对数误差）

## RöVi-8 |

### *Test device for Digital Subtraction Angiography (DSA)*

For your X-ray equipment with digital subtractive angiography (DSA) functions a check of the fluoroscopic part is not sufficient: special quality checks of the most important DSA-typical parameters have to be done.

These additional tests according to international standards can be made quickly and without problems with help of the test device **RöVi-8**.

For vascular simulation during the scan series the insert slider will be moved pneumatically. Results of the test will be documented in a protocol.

**The test device RöVi-8 is made of the following components according to the IEC and DIN:**

- an attenuation body made of acrylic glass (150 x 150 x 57 mm)
- a dynamic step wedge: seven linear steps of copper from 0.2 mm to 1.4 mm thickness arranged perpendicular to the longitudinal direction of the insert. the dynamic wedge has an additional step from 1.4 mm to 0.2 mm to perform compensation test
- an insert (vascular simulation pattern): PMMA, to be shifted 10 mm in transverse direction, with four strips of aluminium of a purity of at least 99.5 % (designated by Al 99.5 according to ISO 2092) simulating vascular densities. The body of an insert has a thickness between 9.5 mm and 10 mm, a length of 150 mm and a width of 13 mm more than its space in the body. It carries four strips of Al 99.5 with a space between the strips of 15 mm. The strips are 150 mm long and 5mm wide, with thicknesses of 0.05 mm, 0.1 mm, 0.2 mm and 0.4 mm.



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