



MagIQ & MagIQ Duo

MRI Phantom

An image quality phantom for magnetic resonance imaging comprising a single chamber (MagIQ) or two identical chambers (MagIQ Duo) which may be filled with different solutions to create two test objects (e.g. high field and low field). A total of 5 (MagIQ) or 10 (MagIQ Duo) separate signal compartments can be used. MagIQ is supplied with 3.5 litres each of 1.5T and 3.0T MRI Solutions as standard.

MagIQ includes the following features:

Reproducible positioning and test conditions

- white pigment-filled centre markings
- integral bubble level
- external LCD temperature strip

Geometric Distortion

- An array of 25.0mm uniformly pitched, high contrast circles

Spatial Resolution

- LP/mm (1.0 LP/mm)
- MTF edge block

Contrast Resolution

Fat Suppression

- 8 user defined compartments (4 x in each arrangement)

SNR / Ghosting / Uniformity

- Flood-fill section for measurement of SNR, ghosting, uniformity

Slice Profile

- Wedges or 'virtual plates' can be used for slice profile measurements



Dimensions: 230mm diameter (254mm with caps), 100mm deep (solo).

www.leedstestobjects.com



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Test Features

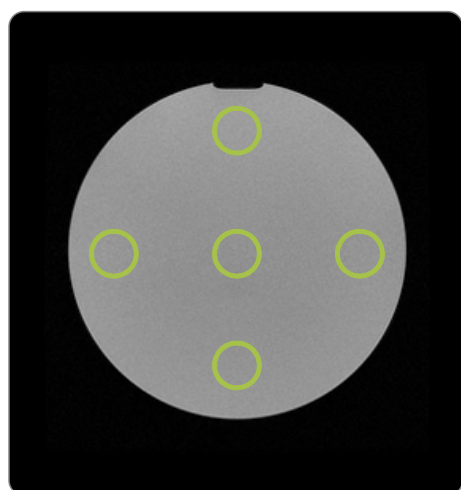


fig. 1 SNR, ghosting and uniformity

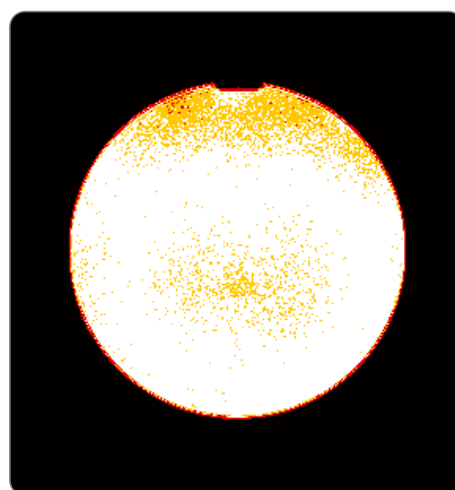


fig. 2 Uniformity map

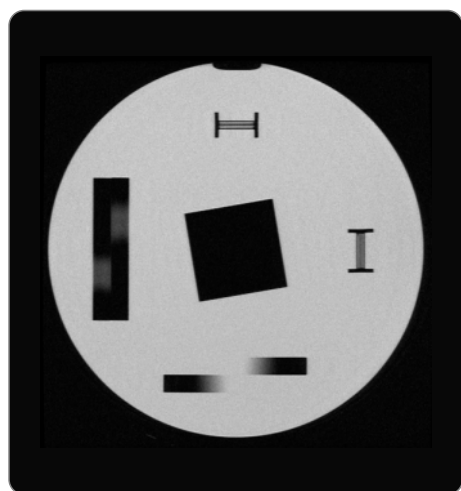


fig. 3 Spatial frequency, slice profile

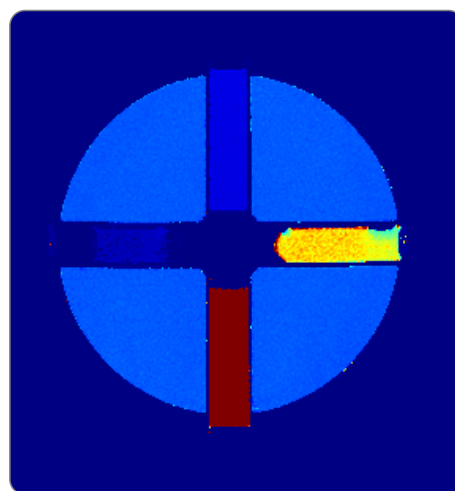


fig. 4 Contrast resolution



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Test Features & accessories

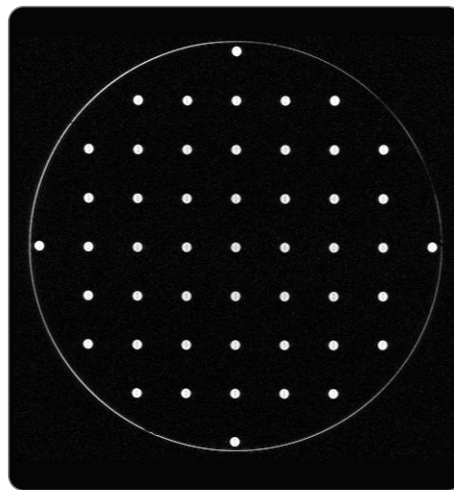


fig. 5 Geometric distortion

Accessories



A set of 18 gel-filled tubes with
calibrated T1 and T2 values,
Available separately.

For more information visit us at www.leedstestobjects.com