



Pro-CT 500, Pro-CT 600 and Pro-CT 700

Smart CT Quality Assurance Phantoms



Smart CT QA phantoms for fast, reliable image-quality control

The Pro-CT series provides comprehensive CT quality assurance for acceptance testing, routine constancy checks and long-term performance monitoring. It supports assessment of key parameters including HU constancy, uniformity, noise, spatial resolution, low-contrast performance and slice thickness.



Pro-CT 500

Reliable QA for routine CT imaging

A versatile, compact phantom for everyday CT quality control.

- Ideal for routine and periodic testing.
- Integrated modules for geometry, HU stability, noise, uniformity, spatial and low-contrast resolution, and slice profile.
- Supports MTF, SSP, LSF, PSF, CNR and other essential CT QA measurements.
- True water module for reliable uniformity.



Pro-CT 600

Flexible QA Designed for multi-scanner and multi-site use

Pro-CT 600 combines the core capabilities of Pro-CT 500 with a configuration designed for frequent transport and multi-scanner use.

- Dedicated bead module for convenient visual assessment of slice thickness.
- Pro-Water water-equivalent homogeneous module for easier handling and transport.
- Ideal for multi-scanner departments and mobile QA workflows.



Pro-CT 700

Advanced QA for detailed CT performance assessment

Pro-CT 700 extends the platform for advanced clinical and research applications.

- Dedicated Z-Wedge Module for detailed Z-axis and XY-plane assessment.
- Rotatable high-resolution module with 45° positioning steps.
- Comprehensive evaluation of geometry, HU stability, noise, uniformity, spatial resolution, low-contrast performance and slice profile.



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Feature	Test / Measurement	Pro-CT 500	Pro-CT 600	Pro-CT 700
Sensitometry	CT number (HU) check	✓	✓	✓
	Linearity	✓	✓	✓
Homogeneous water	Noise / Uniformity	✓	✗	✗
	Artefacts	✓	✗	✗
Homogeneous Pro-water	Noise / Uniformity	✓	✓	✓
	Artefacts	✓	✓	✓
Low contrast	Low contrast resolution	✓	✓	✓
	Contrast resolution	✓	✓	✓
	CNR	✓	✓	✓
Resolution	Spatial resolution 1-22 LP/cm	✓	✓	✗
	Spatial resolution 1-30 LP/cm	✗	✗	✓
	PSF (beads)	✓	✓	✓
Geometry	Geometric distortion	✓	✓	✓
	Slice profile	✓	✓	✓
	Slice profile with bead ramps	✗	✓	✓
	Alignment	✓	✓	✓
	Beamwidth	✓	✓	✓
	Spatial resolution in Z dimension	✓	✓	✓
	MTF	✓	✓	✓
	SSP, LSF, PSF	✓	✓	✓
Fourier/wave	Wave calculations	✗	✗	✓
	Distance PSF (six beads)	✗	✗	✓