



This product is available through:

JRT Associates

800-221-0111

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SOLUTIONS
FOR QUALITY
CONTROL

Pro-Dent CT MINI

01-303

The new Pro-Dent CT MINI phantom is a versatile quality control tool of dental Cone-Beam CT, Dental Volume Tomography (DVT) and other 3D imaging devices with even smallest FOV (Field Of View).

The phantom consists of a main PMMA cylinder that houses modules with different test objects. It allows performing most important imaging quality test such as:

- image geometry
- slice geometry
- pixel (matrix) size
- artefacts, noise
- homogeneity
- linearity
- contrast
- high-contrast resolution
- low-contrast resolution (contrast sensitivity)



NEW

Technical data (can be modified to customer specifications):

- diameter: 110mm
- length: 130mm
- made of PMMA (1.19 g/cm³)
- main cylinder contains markings for easy positioning in the dental unit and geometric distortion section:
 - an array of 2.0 mm diameter, 3.0 mm long holes uniformly pitched at 10.0 mm intervals
- 20mm thick noise / uniformity module
- linearity module:
 - containing 15 mm rods made of PTFE, poliamid, PE-300, air and water emulating epoxy embedded PMMA - pixel intensity / HU values samples
- high contrast resolution module containing:
 - 7 objects for resolution evaluation: 10, 11, 12, 13, 14, 15, 16 LP/cm
 - 0.3mm bead for Modular Transfer Function (MTF) calculation
- low contrast section containing:
 - rods of a different diameter: 2, 3, 4, 6, 8, 10, 12mm, filled with a substance whose density is 3% different from the body of the module
- slice geometry module containing:
 - 4 air rods, 3mm in diameter, places in vertices of the 30mm square
 - two aluminium wire ramps
- test stand with spirit level for accurate placing of the phantom in the test position
- convenient, portable case for storing and transporting the phantom

Product features:

- complies with:
 - IEC 61223-3-4 and IEC 61223-3-5
- CE certified
- the Manual provides detailed guidelines for carrying out each test, results assessment and registration

