





This product is available through:

JRT Associates

5 Nepperhan Avenue, Suite 2B Elmsford, NY 10523 800-221-0111

Pro-Dent CT

01-301

The Pro-Dent CT phantom is an innovative solution for quality control of dental tomography systems and other X-ray devices with 3D function.

It was developed in cooperation with leading producers of dental tomography units. The size of the phantom corresponds to a human skull (15cm in diameter) and all test patterns are located in the area matching the maxilla. This enables a reliable and quick testing of X-ray devices, even with a limited field of visualization. Also, quality is evaluated in the clinically essential region.

With the Pro-Dent CT you can do the following tests:

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

Technical data (can be modified to customer specifications):

- main test module dimensions: ø 150 mm, 40 mm thickness, containing:
 - four sensitometric samples ø 20 mm made of: PTFE (teflon), POM C (polyoxymethylene), PE 300 (polyethylene) and air
 - four ø 3 mm rods, filled with air, placed in vertexes of a square (side length 50 mm)
 - seven low contrast rods of a different diameter: 2, 3, 4, 6, 8, 10, 12 mm, filled with a substance whose density is 3% different from the body
 - seven high contrast patterns for line pair resolution evaluation, from 10 to 16 LP/cm
 - three beads: ø 0.2, 0.25, 0.3 mm
- optional ø 150 mm, 20 mm thick geometry modue with two pairs of aluminum ramps, empty rods in vertexes of a square and positioning markers for detailed evaluation of image geometry and laser position verification (01-302)
- additional smaller homogenous cylinder filled with a substance of a density similar to water: ø 150 mm, 30 mm in thickness
- additional larger homogenous cylinder filled with a substance of a density similar to water: ø 150 mm, 130 mm in thickness
- test stand with a table for placing 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























