

Pro-Dent CT



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.

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 allows for 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.



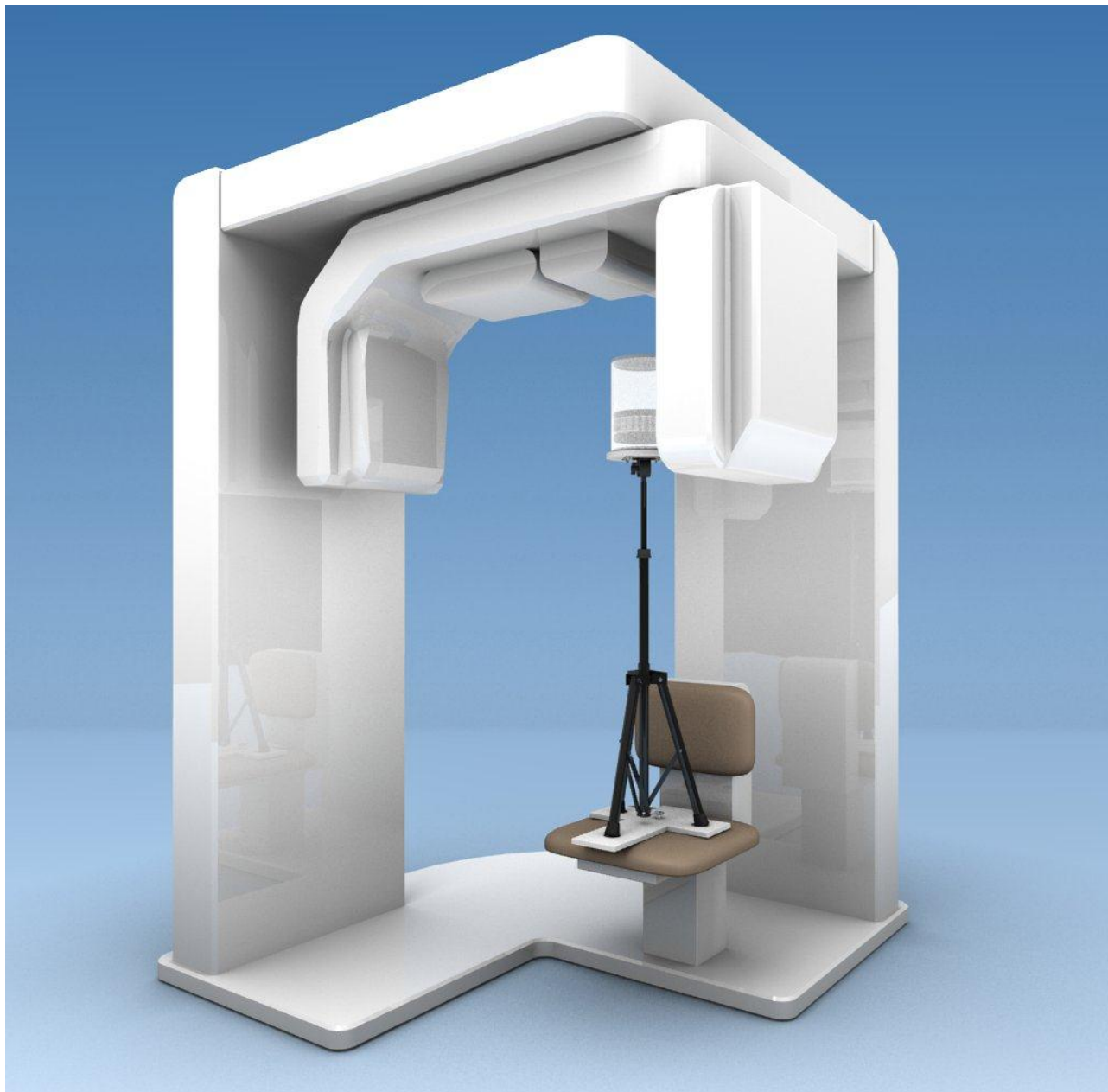
With the Pro-Dent CT you can do the following tests:

- 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: \varnothing 150mm, 40mm thickness
- contains four sensitometric samples \varnothing 20mm made of: PTFE, polythene, polyamide and air
- contains four \varnothing 3mm rods, filled with air, placed in vertexes of a square (side length 50mm)
- contains seven low contrast 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
- contains seven high contrast patterns for line pair resolution evaluation, from 10 to 16 LP/cm
- contains three beads: \varnothing 0.2, 0.25, 0.3mm
- additional smaller homogenous cylinder filled with a substance with a density similar to water: \varnothing 150mm, 30mm thickness
- additional larger homogenous cylinder filled with a substance with a density similar to water: \varnothing 150mm, 130mm thickness
- test stand with table for placing phantom in the test position
- folding base for test stand positioning on the x-ray unit's chair
- convenient, portable case for storing and transporting the phantom





Product features:

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