

QUART DVT_TEC

Automatic CBCT Image Scoring Software



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CBCT Quality Assurance and Quality Control Software



The unique QA/QC software automatically evaluates and displays all parameters that were acquired using the QUART DVT_AP test phantom. Only two slice images from the QA data set are required to conduct a complete QA assessment.

Unique in kind, the DVT_TEC software automatically calculates a figure of merit (system indicator) comprising of geometrical machine data, dose and image related parameters. It thus establishes a direct correlation between measured dose values, image quality parameters and enables objective quality control assessment of a wide variety of CBCT equipment. The software is

- DIN 6868-161 compliant for acceptance tests and
- DIN 6868-15 compliant for constancy tests.

Despite its technical character, the software is easy to use. It provides a walk-through function which assists users in carrying out the QC procedure.

The QUART DVT_TEC stores the result of each single test in its internal data bank. In addition, a Protocol print-out function is provided for matters of documentation (obligatory hardcopy) or general reference.

Test Parameters

- _ Nyquist Frequency (NF)
- _ Contrast
- _ Noise
- _ Contrast-to-Noise Ratio (CNR)
- _ Homogeneity / Image Uniformity
- _ Modulation Transfer Function (MTF) at 10% & 50% modulation
- _ Artefacts, Image Flaws, etc.
- _ System Indicator / Acceptance Indicator (Figure of Merit)
- _ Patient / Phantom Positioning Accuracy
- _ Additional QA/QC related tests such as Geometry test, etc. to be conducted in an external DICOM viewer

General Features

- _ One-click fully automated image evaluation
- _ Data export enabled to QUART DVT_PRO to increase efficiency in work/test routines
- _ Quick and easy server registration for end-users available 24/7
- _ Developed for ease-of-use

