QUART
Quality Assurance in Radiological Technologies

QUART DVT_TEC

Automatic CBCT Image Scoring Software

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QUART DVT_TEC

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

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