

QUART dentQA & DVTap / DVTKp / dent/digestest 2.1

All-in-One Dental Quality Assurance Software



QUART dentQA 3D/2D

Software for integrated Dental X-Ray Quality Assurance



The QUART dentQA is a manufacturer-independent software to conduct, manage, record and archive acceptance and consistency tests on dental 3D and 2D X-ray devices.

The software meets all requirements of the following standards:

- DIN 6868-161 and IEC 61223-3-7 for CBCT acceptance tests,
- DIN 6868-15 and IEC 61223-3-7 for CBCT constancy tests,
- DIN 6868-151 and DIN 6868-5 for acceptance and constancy tests at digital intra-oral, panoramic and cephalometry x-ray units.

QUART dentQA is designed to manage all acquired test data of its end-user, e.g. a dental practice, that has several 3D and 2D X-ray devices in use. The type and scope of the necessary quality controls to be performed and saved can be freely configured in the software.

An automation function is available to accelerate the evaluation process. This feature is called “auto-image” and was specifically developed by QUART to carry out the recurring tests efficiently and in a time-saving manner.

A direct print function and three different storage options are available for the test reports: PDF, PDF with images, or creation of a zip file with embedded images to dispatch them by email to a regulatory institution or other 3rd parties.

The storage paths to back-up both database and logs can be configured individually.

In accordance with the requirements of the DIN and IEC standards, QUART's dentQA automatically calculates and evaluates all necessary 3D test parameters for acceptance and constancy tests. All test parameters required by the QA standards are managed in the software. That includes the test records for 2D QA tests as well:

Acceptance Test Parameters CBCT

- _ Nyquist frequency
- _ MTF 10% / MTF 50%
- _ Contrast / Noise
- _ Contrast-to-noise indicator
- _ Voxel PMMA
- _ Homogeneity indicator
- _ Artefacts check
- _ System indicator / Acceptance indicator
- _ Positioning check
- _ Collimator check

Constancy Test Parameters CBCT

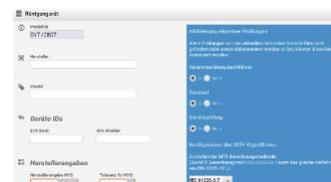
- _ Nyquist frequency
- _ MTF 10% / MTF 50%
- _ Contrast-to-noise indicator
- _ Homogeneity indicator
- _ Artefacts check

Acceptance Test Parameters 2D

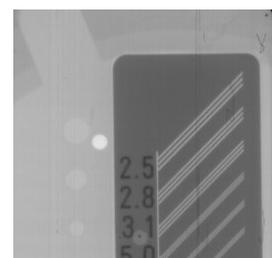
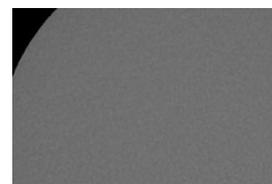
- _ Image receiver dose
- _ Time-limit switch check
- _ Results of visual inspection
- _ Dose repeatability
- _ High-contrast resolution
- _ Low-contrast resolution
- _ Radiation field check (intra-oral)
- _ Collimator check (PAN/CEPH)
- _ Artefacts check

Constancy Test Parameters 2D

- _ High-contrast resolution
- _ Low-contrast resolution
- _ Radiation field check (intra-oral)
- _ Artefacts check



Steuergröße	Werte	Einheit	Differenz	WZ	Wartung
Rechenfrequenz	1.48	Sp/min			
Rechenfrequenz	796.76				
Rechenfrequenz	71.14				
MTF	11.41				
MTF	27.05				
PMMA Rechenwert	76.23				
MTF	100.12				
MTF	100.12				
MTF	100.12				
MTF	100.12				





All QUART QA software is provided as local on-premise installation

In today's medical environment all data is still gaining in importance – and value. This leads to the point where customers are getting far more concerned about the ownership and safety of their data than just a few years ago.

All QUART software is provided as on-premise license, which is installed locally, on your business' computers. Cloud software which would be hosted on the vendor's server and accessed via a web browser is not part of QUART's data security principles.

It is our firm belief that the on-premise concept provides our users with considerable advantages:

Uptime

You need not rely on internet connectivity or external factors to access your software. Your complete work history is available at all time – so is your customer and test data.

Permanent Accessibility

No internet connection is required. The test runs and the reporting can be done at any time. Tests can also be repeated without any limitation.

Data Governance

Data integrity, usability, security, and availability of the data is governed in your sphere of influence. You own the data, and you exercise full control over it allowing legal and regulatory compliance. Such data governance lays the ground work for a complete audit trail of all parties who recorded and managed the data, making it simpler for you to comply with ethical data management practices.

Total Cost of Ownership (TCO)

Only pay once for your user licence, which lowers TCO considerably compared to a cloud system.

Low Long-Term Cost

On-premise installation may at first require a bit higher upfront investment, however cloud applications will be more costly over the course of the software's life cycle, increasing TCO considerably.

Complete Control

Data, hardware and software platforms are all yours. You can decide on configuration, upgrades and system changes.

Covered Responsibility for Maintenance

Updates and improvements on usability are generally free of charge with QUART's software. Functional upgrades, when they are necessary, e.g. after a QA standard revision or introduction of new regulations, are moderately priced.

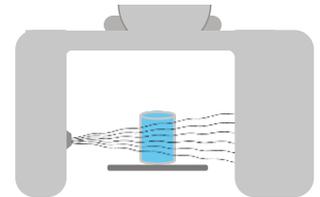
User-friendliness

A guide-through function of the software accompanies the user for the whole test. QUART software is also available in multi languages.

Compatibility with DIN & IEC Certification

Because of QUART's traditional involvement in DIN and IEC working groups, we are at the forefront of changes to existing QA standards (DIN/IEC) and guidelines. Any updates required after standard revision will be communicated to you as a priority.

QA Test Exposure



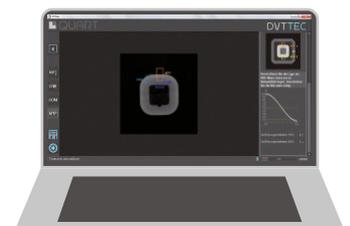
3D Data Set



Slice Images



QA Software



Test Report





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V05/2025