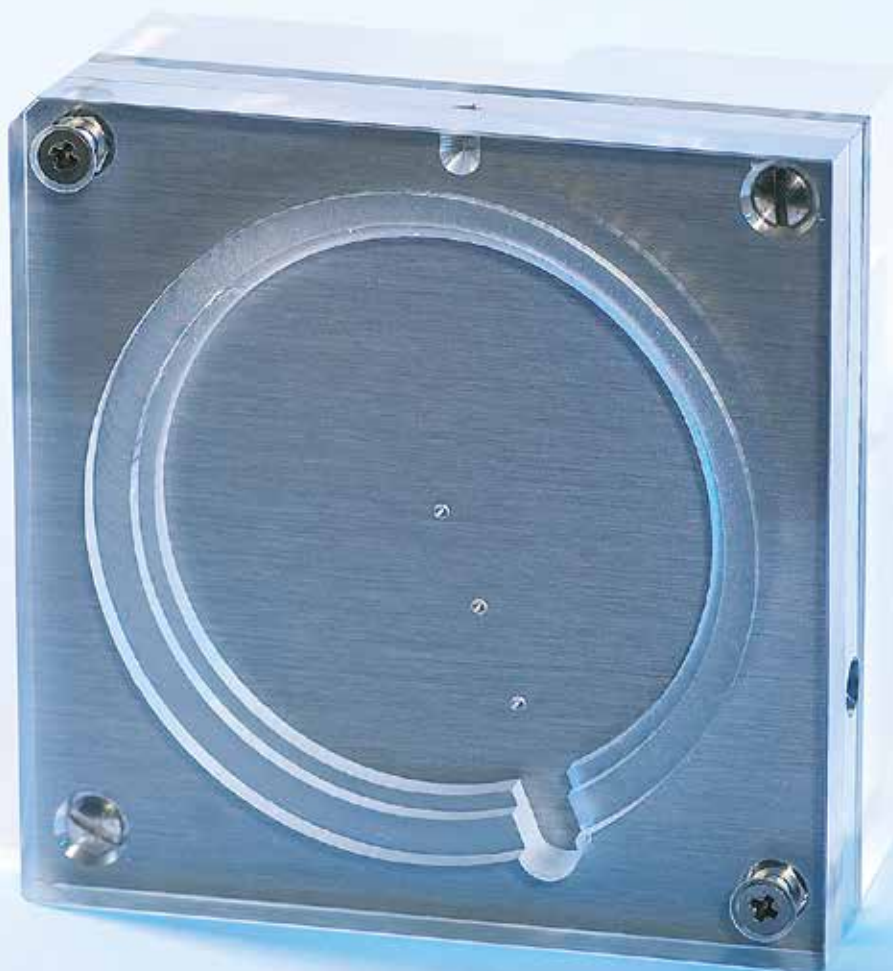


QUART dent/digitest

Dental X-Ray QA/QC Test Phantom



QUART dent/digitest

Test Phantom for Quality Assurance and Critical Examination of Dental X-Ray Equipment



The *QUART dent/digitest* phantom is designed to be used for QA/QC routine testing in Dental X-Ray applications ranging from intra-oral, panoramic to cephalometric equipment.

Only one exposure is required to collect all necessary parameters to determine the imaging quality of the x-ray equipment. After the exposure, the test image is evaluated visually.

The *QUART dent/digitest* line of phantoms fully comply with IEC 61223-3-4 and IEC 61223-2-7, DIN 6868-151 and DIN 6868-5 as well as IPEM, ÖNORM, PN-EN standards and AFSSAPS regulations.

Phantom and Test Procedure

QC tests are carried out at initial equipment installation to establish a visual reference. On a regular routine basis, they are meant to ensure the constancy of the system's imaging capabilities. Any deterioration in imaging performance would be revealed by the visual evaluation of the test images. A single image of the QA/QC phantom contains a lot of crucial information for that purpose.

Test Parameters

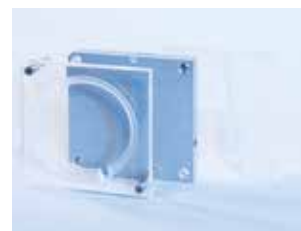
- _ Spatial Resolution
- _ Low-Contrast Resolution
- _ Radiation Field Alignment
- _ Image Homogeneity
- _ Dose Equivalency Check
- _ Artefacts, Image Flaws, etc.

Customised Holder Design

For QA/QC performance at panoramic x-ray equipment a customised holder can be provided for fast and reproducible positioning of the phantom in the tomographic plane. Adaptors for a variety of systems are available:

AJAT	ART Plus Series
BlueX	PantOs Series
GENDEX	Orthoralix 8500/9200
J. MORITA	IC-5/Veraviewepocs
KODAK-CARESTREAM	K8000/K9000
MYRAY	Hyperion X Series
OWANDY	Imax Series
PLANMECA	Proline/ProOne/ProMax
RAY MEDICAL	Rayscan alpha Series
SIRONA	OP100/OP200/Orthophos Series
SOREDEX	OP30/OP100/OP200
VATECH/EWOO	Pax/Picasso Series
VILLA Sistemi	Rotograph Series

NB: The holder can be customised for any panoramic system.



QUART dent/digitest

Test Phantom for Quality Assurance and Critical Examination of Dental X-Ray Equipment



A Genuine History of Invention

In the mid 1990's QUART developed and designed the first *dent/digitest* QA/QC phantom. This phantom soon became the National Standard in Germany when it was described and represented in the DIN standard text. Some time later it was also discussed by the European IEC standard committee and became a standardised solution for Europe as well.

Until today the phantom has not changed much in its appearance. However, QUART added genuine features to further enhance the ease of use of the phantom: the separable design for precise panoramic and cephalometric testing, an enhanced geometric test, a customisable panoramic holder and a special holder solution for cephalometric systems.

Phantom Description

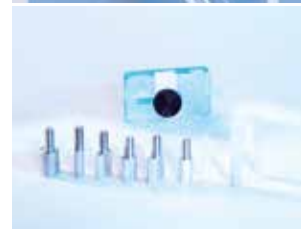
- _ Separable Design for all dental modalities
- _ Size: 80x80x36 mm (LxWxH)
- _ Slit to slide out intra-oral sensor without pulling the cable; also for secure sensor cable routing
- _ 2-point fitting for cephalometric systems
- _ V-nut for optional *dent/digi H* OPG holder fit (see accessories below)
- _ 3 centring rings with different diameters to fit standard tubes
- _ Slots for digital storage screen, intra-oral sensor, dose detector
- _ 45° Line Pair test (2.5/2.8/3.1/5.0/5.8/6.3 Lp/mm; 0.05 Pb)
- _ 4 Low Contrast objects (Ø 2.5/2/1.5/1 mm)
- _ Integrated filtration 6 mm Al (purity 99.5 % guaranteed)

Delivery includes

- ✓ QUART *dent/digitest* 2.1 or 3.1 Test Phantom
- ✓ QUART *dent/digi H* Phantom Holder (optional)
- ✓ QUART *cu08* Added Filtration for pano/ceph (optional)
- ✓ Manuals
- ✓ Transport Case with Foam Insert

Also available

QUART <i>dent/digi H uni</i>	Variety of customised Holders
QUART <i>dentII</i>	Universal tripod stand
QUART <i>dentII mpc</i>	Phantom for Conventional Dental QA/QC
QUART <i>cu10d</i>	Phantom Holder for conventional pano/ceph
QUART <i>dent/digitest M1/M2</i>	Added DIN compliant filtration
QUART <i>dido/EASY</i>	Manufacturer Test Phantom
	Constancy Test Dosemeter





We help to help others
QUART is a proud Supporter of *Medecins sans Frontieres*



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