



A Comprehensive Image Performance Evaluation Platform

Universal Test Platform (Any OEM) Independent 3rd Party One Pass Accurate Fast 5 Mins evaluation Automation Evaluation Ready Comprehensive 7 Tests

CONTACT US

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XTE[™] CT and CT Medical

Performance Evaluation, System Acceptance and Scheduled Maintenance of CT scanners in Security and Medical Scanners



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XTE™ CT

Producing high quality images in CT is important for image interpretation and to obtain the maximum diagnostic information from the images.

CT image quality, as in most imaging, is described in terms of contrast, spatial resolution, image noise, and artifacts. XTE[™] CT consists of 7 comprehensive tests that covers the above parameters.

- Offers both subjective and objective DICOS testing using **XTE™ Unify**
- One pass
- Open architecture ACRIS ready
- Single and multi energy source ready

Dimension

XTE[™] CT Security 300mmφ x 600mm Weight 22 Kg

XTE™ CT Medical 250mm¢ x 530mm Weight 18Kg

7 Comprehensive Test

Test 1 Contrast, Zeff and Density

Assessing incorrect densities measurement across different materials, diameters and scattering mediums

Test 2 Beam Hardening

Evaluate the cupping and streaky artefacts of beam hardening on the scanner

Test 3 Spatial Resolution

It is a measurement of how far apart 2 objects are before they can be seen to be separate. Proprietary "crows foot phantom" is used

Test 4 Contrast Detail

Contrast is the measure of density difference between 2 areas. This test uses various diameters of holes of varying depths for evaluation between air and scattering medium

Test 5 Metal Artefact

Metal artefacts creates bright and dark streaky strips across images. This test uses steel wires of varying thickness to create steak artefact in a controlled way for measurements

Test 6 Grid and Wire Resolution

Evaluate grid resolution in both horizontal and vertical orientations. Different wire diameters are tested in air for wire resolution

Test 7 Small Inclusion

Evaluate the presence of small inclusions that are both dense (filled) and light (air)

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