



XTE™ CT

Performance Evaluation
System Acceptance
Scheduled Maintenance of
Security CT Scanners



Comprehensive Image Performance Evaluation Platform

- Universal Test Platform (Any OEM)
- Independent 3rd Party
- Network Ready
- One Pass
- Single and multi energy source ready
- Fast 5-minute Automated Evaluation
Offers both subjective and objective testing (using automated evaluation software, XTE™ Unify)

Dimensions: 300mm x 600mm Weight: 22kg

*1mm = 0.039 in, 1m = 3.280 ft, 1kg = 2.204 lbs

Designed, Engineered, & Manufactured by Synergy4Tech Pte Ltd
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7 COMPREHENSIVE TESTS

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 Artifact

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

This test is designed to test the visibility of small inclusions that are both dense (filled) and light (air).

The most comprehensive image performance system for testing border security screening equipment.

CHECK | LITE | CARGO | CT | BACKSCATTER | UNIFY

