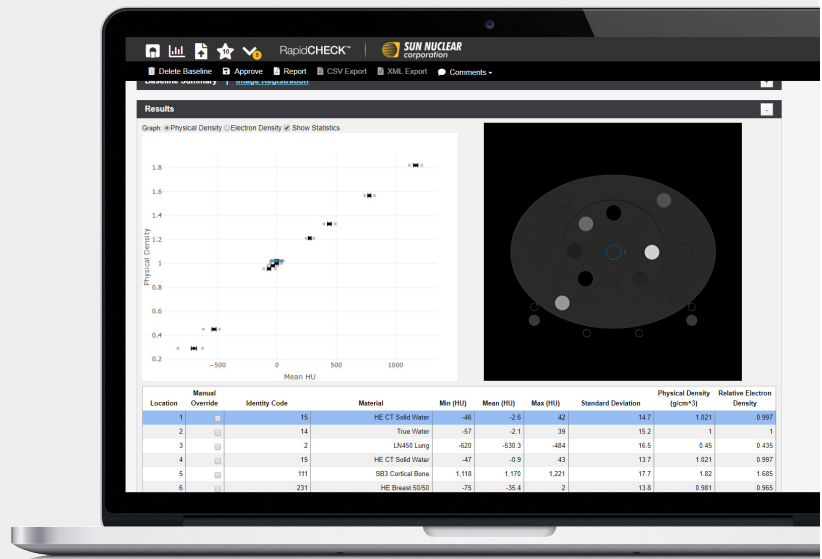


# RapidCHECK™

Automated Analysis for  
CT-to-Density Calibration  
& CT Image Quality



RapidCHECK™ is an automation platform that brings together intuitive software and QA phantoms, leveraging proven Gammex® technologies, for efficient and standardized QA workflows.

Use RapidCHECK with your **CT ACR 464 Phantom** for faster analysis, trending reports, and an easily searchable permanent record.

Use RapidCHECK with your **Advanced Electron Density Phantom** for faster, less tedious calibration of the CT-to-electron density table.

## Browser-Based

Access RapidCHECK from any browser in your clinical network to simplify workflow, regardless of clinic size. The platform is installed locally; data can be stored in the location of your choice; and there are no per-use fees.

## RapidCHECK in Action

Using RapidCHECK with Sun Nuclear's ACR 464 Phantom allows you to define a baseline with your initial scan. RapidCHECK will suggest tolerance values based on ACR guidelines and empirical measurements. With the baseline set, each scan is evaluated and scored against your defined tolerances, eliminating inter/intra-use variation.

With the Advanced Electron Density Phantom, RapidCHECK automatically finds and identifies the material of each rod – and streamlines the CT-to-electron density table report.

**Both modules get results immediately. Load data. Get analysis. Print a report. Track changes over time. If issues are detected, you can easily review prior scans, analyze trends, and investigate anomalous results.**

RapidCHECK\_072020

**sunnuclear.com**

7600 Discovery Drive, Middleton, WI 53562 USA

All data used is best available at time of publication. Data is subject to change without notice.

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**PEO B.V.**

info@gotopeo.com  
www.gotopeo.com

**The Netherlands**

Havenweg 16, 6603 AS Wijchen  
+31 (0)24 648 86 88

**Belgium**

Watermolenstraat 2, B-2910 Essen  
+32 (0)3 309 32 09

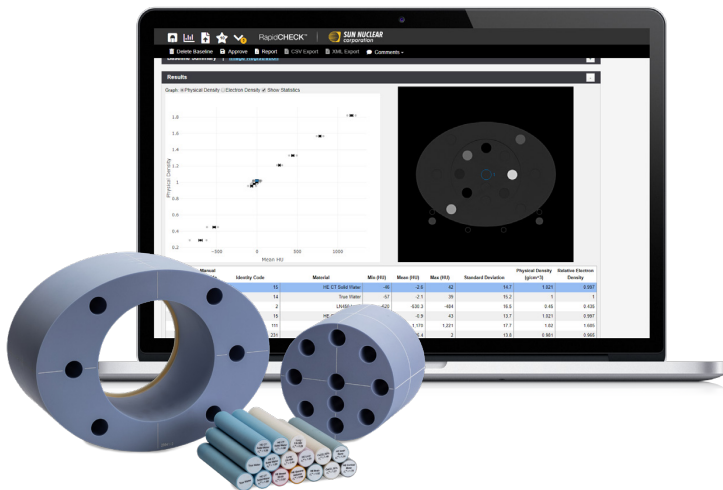
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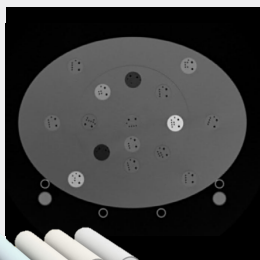
## CT-to-Density Module

Accurate dose delivery requires precision and care. CT-to-electron density calibration remains an area where tighter dosimetric tolerances could be achieved. With RapidCHECK and Advanced Electron Density Phantom integration, your team can automate tedious, repetitive, and error-prone tasks for more efficient and precise treatment planning calibration.

Our patent-pending rods with unique markers automatically identify materials during the CT scan – minimizing risks from rod misplacement, phantom rotation or incorrect selection of ROIs. RapidCHECK software then automatically generates physical and electron density tables for export.

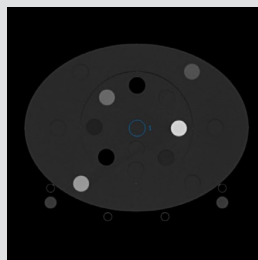
## CT-to-Density Table Automation

### Rod Identification Slice

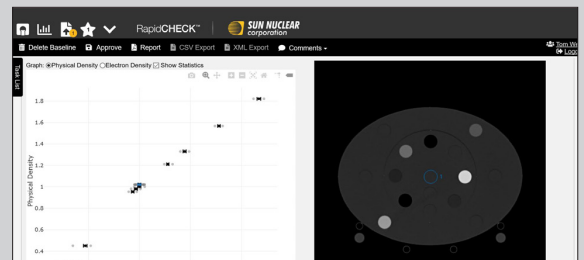


**1** Automatically identifies phantom and location of rods.

### Rod Analysis Slice(s)



**2** Automatically detects HU Analysis slice.



**3** Automatically generates physical and electron density tables for export.

## CT Image Quality Module

Combine RapidCHECK with the CT ACR 464 Phantom to automate CT image quality testing. Generate a complete report in seconds, with analysis that complies with ACR testing requirements, including slice thickness, resolution, uniformity and more. Built-in evidence-based metrics remove subjectivity from evaluations.



RapidCHECK requires a system running Windows 10 (Pro, Enterprise, and Educational) with either Microsoft Edge or Google Chrome browsers, with at least an i3 processor, 8 GB RAM, and 10 GB of drive space.