

AND MORE!
CYBERKNIFE[®] QA

ONE CLICK MAKES QA QUICK



QA STEREOCHECKER™

FAST AND FILMLESS CYBERKNIFE® QA

QA StereoChecker is the highest resolution detector array provided with fully integrated and automated image acquisition and analysis software for CyberKnife QA. Select a test, click start and let the enhanced software automatically acquire, analyze, report, save and trend the test images and metrics!

MINIMAL SETUP FOR MAXIMUM EFFICIENCY

Perform a full suite of QA routines with just one trip to the vault for device setup. No film, no collimator attachments, no manipulation of the robot required. Automatically align QA StereoChecker using the Target Localization System in clinical mode to treat just as you would a patient.

CONVENIENTLY COMPREHENSIVE

QA StereoChecker delivers outstanding convenience in both hardware and software design, making it easy for therapists to incorporate CyberKnife Daily QA into their morning routines. It also provides comprehensive tools for physicists to track, troubleshoot and report machine performance issues to ensure machine uptime. Monthly QA and Manual QA modes offer additional test capabilities for both linac and CyberKnife collimated fields.



DID YOU KNOW?

The cost of film necessary for Accuray-recommended daily CyberKnife machine QA tests can be \$5,000 USD annually.

DAILY QA

HIGH SPEED + HIGH RESOLUTION = HIGHLY ACCURATE RESULTS

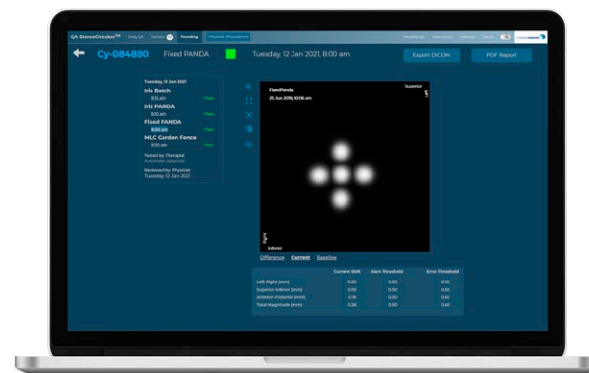
Eliminate film from your daily QA routine! The QA StereoChecker delivers fast quantitative results for QA tests that have established criteria set by Accuray.

One setup for all tests, one QA plan per test, and one click to complete a QA test dramatically improves efficiency allowing more comprehensive QA to be performed on a daily basis. Daily results are summarized on review tickets with each test date and time stamped for easy sign-off by authorized physicists.

PATENTED PANDA – FIXED CONE

(Position and Delivery Analysis)

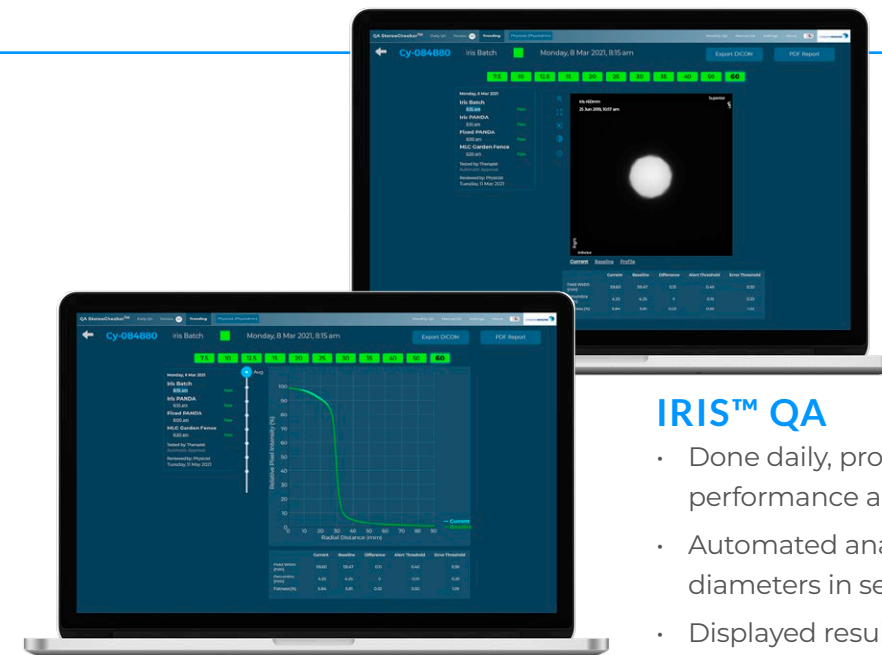
- Replaces the film-based AQA™ test with a faster and easier method that produces equivalent or better results
- Measures translational and rotational offsets in three dimensions
- Eliminates additional trips to the vault using single QA plan delivery
- Capable of detecting a 0.1 mm offset



PANDA
IN ~5 MINUTES

PATENTED PANDA – IRIS

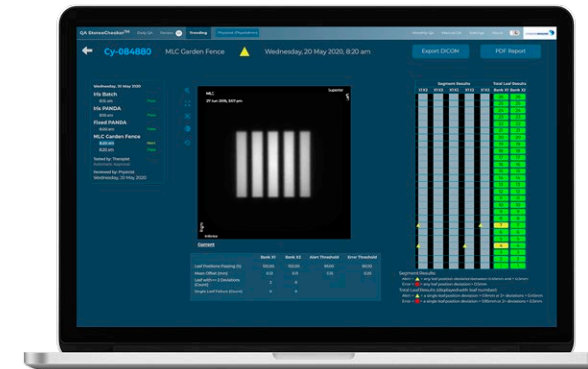
- Uses different robot locations from the Fixed Cone PANDA for a more robust overall test of robot positioning accuracy
- Measures translational and rotational offsets in three dimensions
- Eliminates additional trips to the vault as it uses the same setup as all other tests
- Capable of detecting a 0.1 mm offset



IRIS QA
IN ~5 MINUTES

IRIS™ QA

- Done daily, provides data to trend performance and reduce machine downtime
- Automated analysis of all clinically utilized Iris diameters in seconds
- Displayed results for field width, penumbra, flatness and radial profiles at every 5 degrees
- Capable of detecting a 0.1 mm field size variation



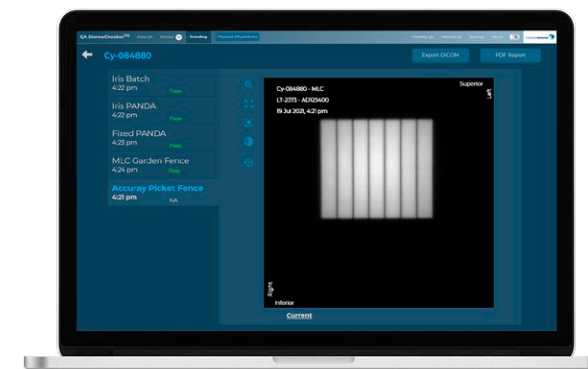
MLC QA
IN ~5 MINUTES

MLC QA – GARDEN FENCE TEST

- Replaces daily qualitative Picket Fence test with fully trended individual leaf metrics to prevent machine downtime
- Measures absolute leaf positions against Accuray's four MLC test criteria
- Captures all segments for all leaves in one QA plan delivery without special setup requirements
- Capable of detecting leaf variation of 0.2 mm

MLC QA – PICKET FENCE TEST

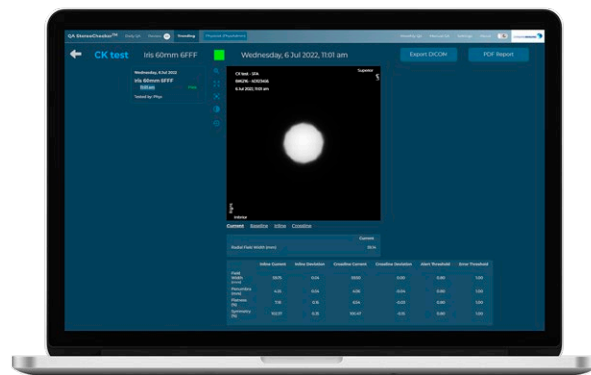
- Acquire and store Picket Fence images for recordkeeping
- Qualitative test per Accuray recommendations



MONTHLY QA

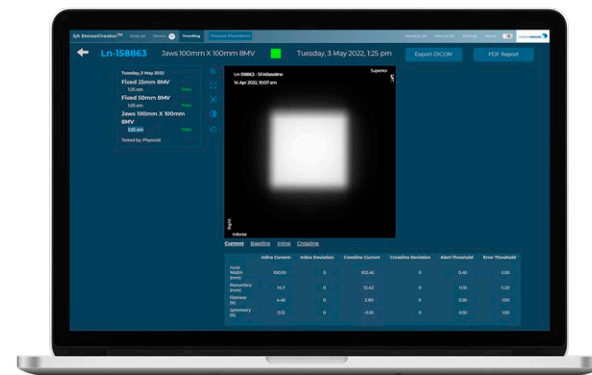
ACCOMPLISH MORE FASTER

Using the same workflow as with Daily QA, simply select a test and click start to acquire, analyze, report, save and trend images and metrics! Quickly perform Monthly QA for traditional linac and CyberKnife collimated fields for quantifiable results. Tests can be done more frequently as deemed necessary to track machine performance.



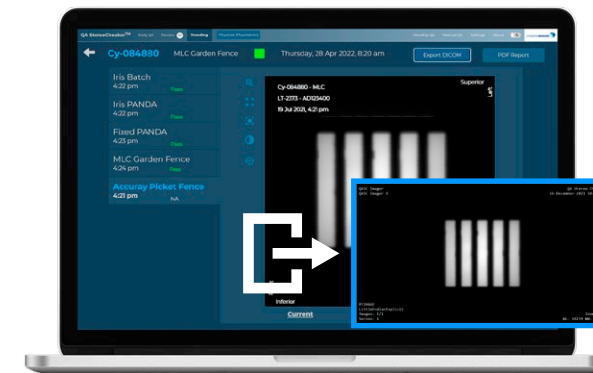
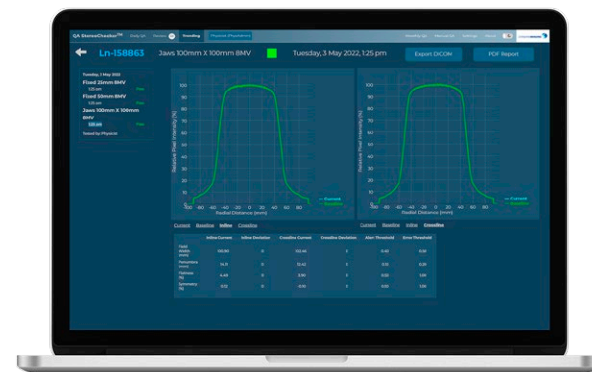
MONTHLY CYBERKNIFE QA

Augment your CyberKnife Daily QA with individual beam analysis of Iris, fixed cone or MLC collimated fields. Test metrics and profiles are automatically calculated and displayed in seconds.



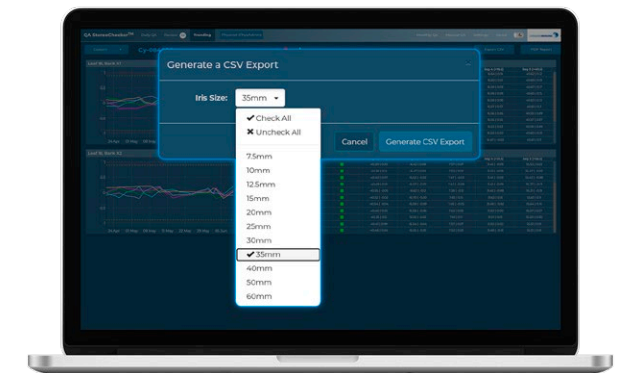
MONTHLY LINAC QA

Easily perform single field analysis on MLC, jaw and fixed cone collimated fields. View inline and crossline profiles for field sizes up to 15 x 15 cm. Image analysis includes metrics for field width, penumbra, flatness and symmetry.



EXPORT DICOM IMAGES

All images acquired using QA StereoChecker are stored in the database and available for export as DICOM files. A single button click gets the job done! A file name is automatically generated by the software that is editable by the user. Save images to a user-selectable file location as needed.



EXPORT CSV

Customizable longitudinal data is available for export as CSV files within the trending database. Select from a preset or customized date range to create a CSV file of test metrics in a single button click. Save the downloaded file in a location of choice for easy access anytime.



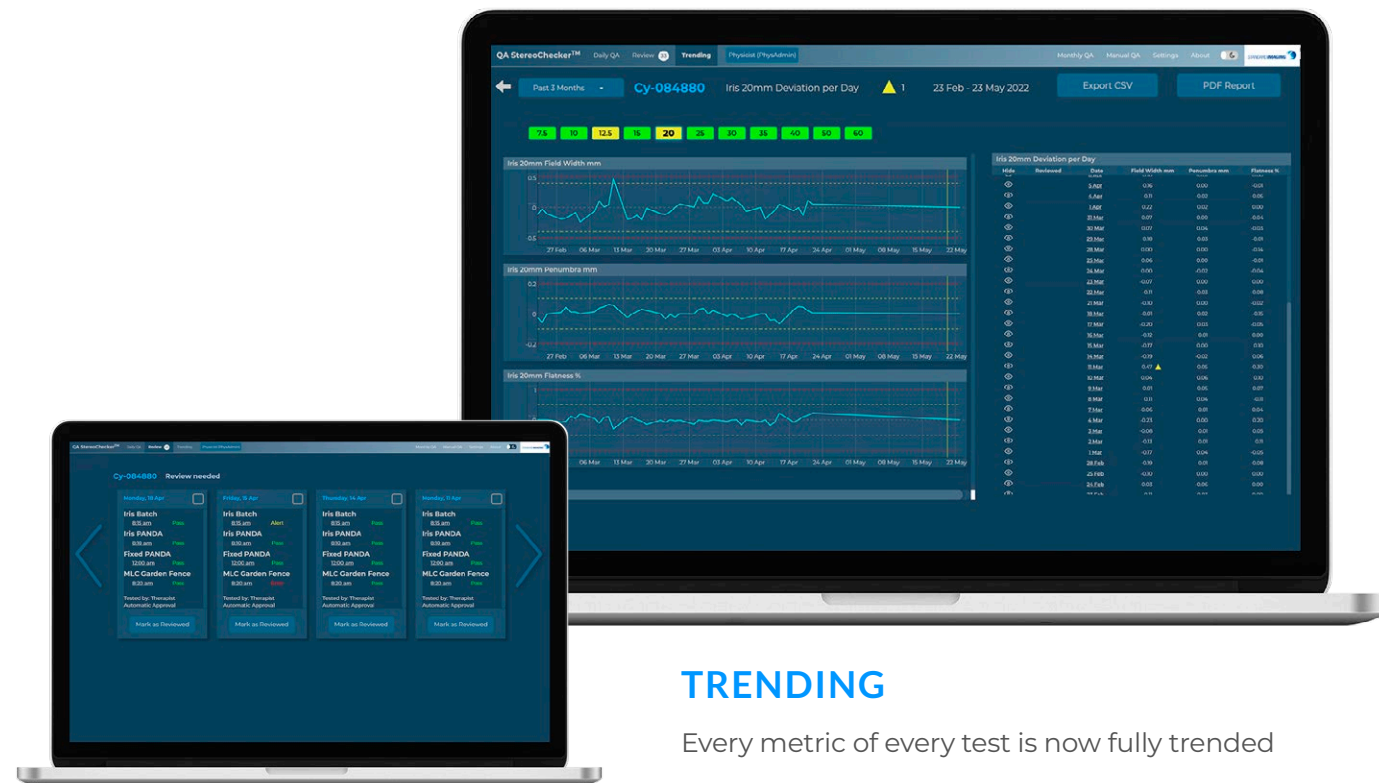
Overall, this version is a MAJOR upgrade to the previous version. It looks professional and has many critical and necessary features. It's very easy and logical to use. It's automated and streamlined for the daily use, but can also be used as a research tool with advanced controls and freedom of acquisition."

JAN-ERIK PALMGREN

Kuopio University Hospital
Kuopio, Finland

NEW FEATURES!

GREAT NEVER LOOKED SO GOOD

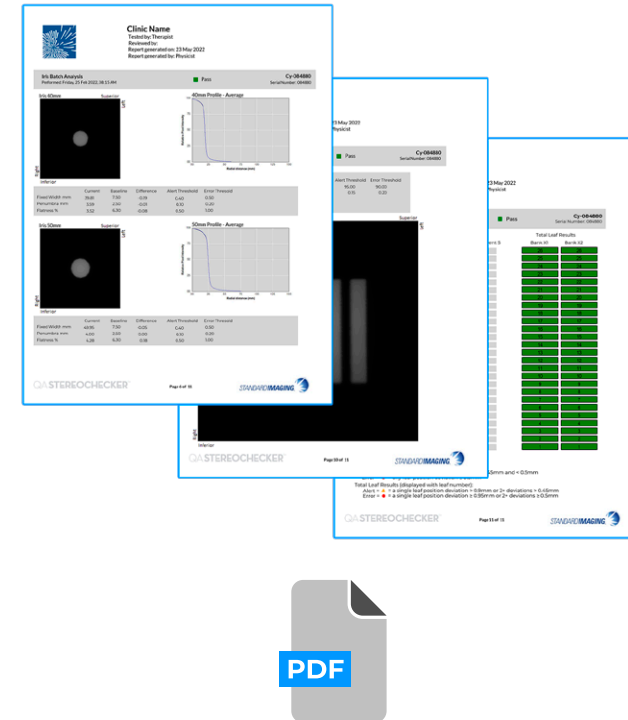


REVIEW QA

Our latest workflow improvements include dashboard highlights. Review tickets provide summary results of Daily QA performed for easy authorized sign-offs.

TRENDING

Every metric of every test is now fully trended in both graphical and tabular format, making it easier than ever to understand machine performance issues so that they may be addressed in a timely manner, securing optimal machine uptime. Starting with a dashboard overview of all daily and monthly QA tests, drill down to particular machines, individual tests and each metric effortlessly.



QA SESSION REPORTS

Keeping the workflow as streamlined as possible, it only takes one click on the Print PDF button to have your Daily QA or Monthly QA session report ready in seconds! These reports are available to print once the QA session is finalized. Individual QA reports are also accessed and printed through the trending workspace should a historical QA report be needed.



LONGITUDINAL REPORTS

For those times when a longitudinal report is needed, simply select a test and date range from the trending workspace and a PDF report is ready at the click of a button! The generated download file is then saved to a user-selected location.

RESULTS ARE ONE CLICK AWAY

CHOOSE AN OPTIMIZED QA EXPERIENCE

SAVE TIME

- One trip to the vault for setup
- One QA Plan per test
- One click image acquisition
- One click DICOM, .CSV exports
- Quick PDF reports
- Quick dashboard summaries
- Fully integrated software
- Electronic sign-off
- Web-browser software
- Review data from any location

AUTOMATIC RESULTS

- Automated image analysis
- Quantitative results displayed
- All data automatically saved
- Every test metric automatically trended
- Detailed Iris Radial profiles at every 5°
- Full inline and crossline profiles
- Augmented AQA with patented PANDA test

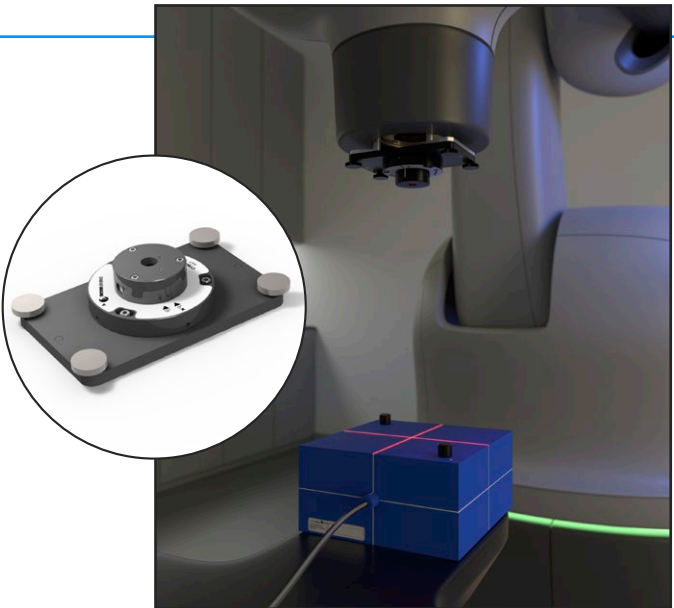
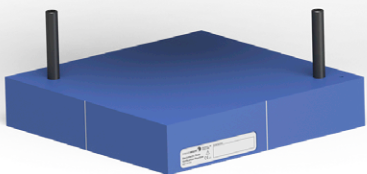
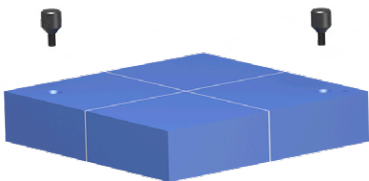
SECURITY

- Tiered authorized user types
- Traceable baseline & threshold changes
- QA session locks on settings changes
- Locally-hosted web application
- Automatically saves all images and data



STEREOTACTIC DOSE VERIFICATION PHANTOM

Compact, versatile phantom for rigorous QA of imaging, treatment planning, dose delivery, and Monte Carlo dose calculation.



CYBERCROSS

Converts the CyberKnife® laser point into a laser crosshair for easy phantom alignment.



DOSEVIEW 3D

Better hardware, better data for CyberKnife commissioning and QA

QA STEREOCHECKER SPECIFICATIONS

DIMENSIONS — [length × width × height] 38.7 cm x 32.7 cm x 4.9 cm // **PHOTONS** — ⁶⁰Co to 15 MV

SOFTWARE/COMPUTER REQUIREMENTS

OPERATING SYSTEM — Windows® 10 Professional, 64 bit — US English version is required in all cases

PROCESSOR — Dual Core - 2 GHz; Quad Core – 2GHz recommended

MEMORY — 8 GB RAM (16 GB RAM is recommended)

HARD DRIVE — 32 GB or greater, 2 GB free space for initial software installation. 25% free space recommended

SCREEN RESOLUTION — 1024 x 768 pixel or greater, 24-bit TrueColor or greater; 4k monitors not supported

OPTICAL DRIVE — Compact Disc (CD) or Digital Versatile Disc (DVD)

CONNECTIVITY — IPv4 1 Gbit/s for dedicated link to imaging panel; and IPv4 LAN, 100 Mbit/s or greater

PORTS — RJ45 Gbit Ethernet connection

NETWORK — Full administrative rights are required

REQUIRED ANCILLARY PROGRAMS — Microsoft Excel

PRODUCT STANDARDS — CE 0413

SOFTWARE/SERVER-BASED REQUIREMENTS

OPERATING SYSTEM — Windows® Server 2016 (or later), 64 bit — US English version is required in all cases

PROCESSOR — Dual Core - 2 GHz; Quad Core – 2GHz recommended

MEMORY — 32 GB RAM (64 GB RAM is recommended)

HARD DRIVE — 64 GB or greater, 2 GB free space for initial software installation. 25% free space is recommended

SCREEN RESOLUTION — 1024 x 768 pixel or greater, 24-bit TrueColor or greater (if the server is used to display the client UI).

CONNECTIVITY — IPv4 LAN, 100 Mbit/s or greater and IPv4 1 Gbit/s for dedicated link to imaging panel – likely connected to a different, Windows® 10 computer when the QA StereoChecker is installed on Windows Server platform.

PORTS — RJ45 Gbit Ethernet connection

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CYBERKNIFE QA

STANDARDIMAGING®



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