

INTEGRATED & INDEPENDENT QUALITY ASSURANCE

Discover the QA Solutions Overview

NEW

High-Resolution Patient QA with myQA[®] SRS and MatriXX Resolution[™]



DOSIMETRY

IBA Dosimetry – Who We Are



ENZ

Protect, Enhance and Save Lives

At IBA we share ideas and know-how with our customers and partners to provide innovative solutions for the diagnosis and treatment of cancer. Patient safety and the safe and efficient work of healthcare professionals are our top priorities. Together we achieve our mission to Protect, Enhance, and Save Lives.

IBA Dosimetry offers a full range of integrated and independent solutions for Quality Assurance, calibration procedures, as well as services that maximize efficiency and patient safety in Radiation Therapy and Medical Imaging.

IBA Dosimetry is the trusted partner of over 10,000 healthcare professionals to ensure better diagnosis and safer patient treatments.

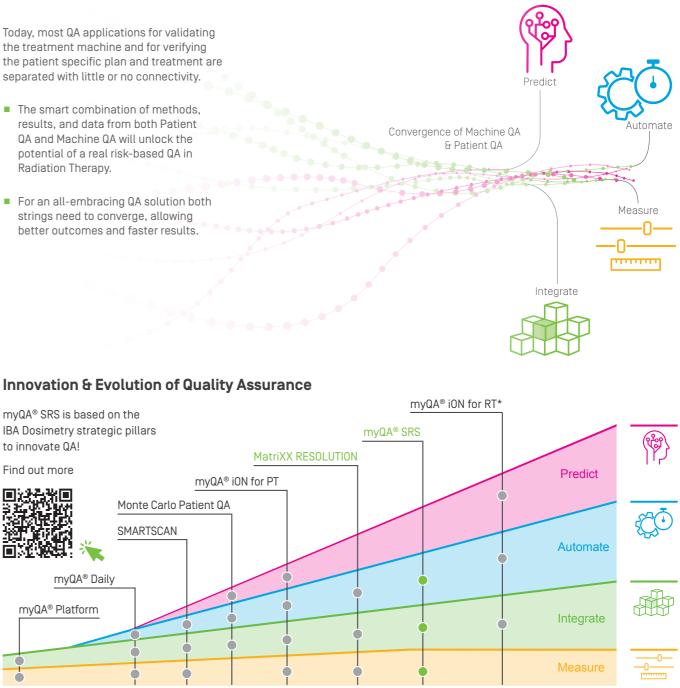
Innovating and Evolving Quality Assurance

Leading Innovations in Quality Assurance

Through cutting-edge innovations, IBA Dosimetry has a long history of advancing Quality Assurance in Radiation Therapy, Proton Therapy and Medical Imaging. As we continue on this path, we are convinced that three drivers are essential to further innovate QA:

- Independence of QA solutions.
- Convergence of Machine QA and Patient QA.
- Smart synthesis of these four QA pillars: Measurement, Integration, Automation, and Prediction.

- results, and data from both Patient QA and Machine QA will unlock the potential of a real risk-based QA in Radiation Therapy.
- strings need to converge, allowing better outcomes and faster results.



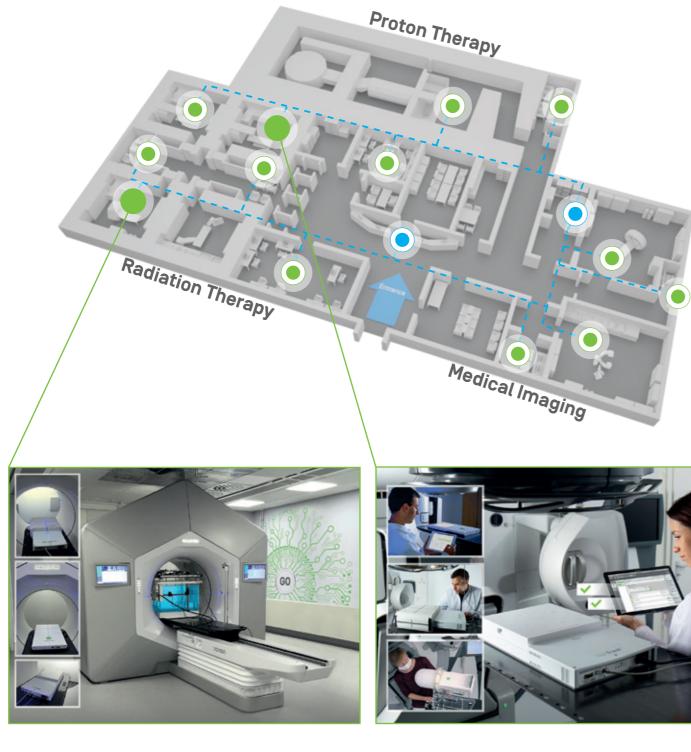
* myQA iON for RT is currently not available for sale in the USA. The product may not be available in your area. For availability, please contact to your local IBA Dosimetry Sales organization.

Virtual Clinic

Experience your new QA solutions in a clinical environment

Clinical Presentations Hub

Learn from peers and experts on medical physics and dosimetry





Discover the complete overview of QA solutions and user experiences interactively.

Visit the Virtual Clinic



Dosimetry & QA Solutions. Watch the teasers (open access).



Register to discover all presentations.



Independent & Integrated QA...

... Fundamental for Patient Safety





Relative Dosimetry Highest quality beam scanning for perfect Linac and TPS commissioning and annual QA



Machine QA Daily, monthly, and annual treatment system checks ensure safe delivery



✐

Patient QA

Accurate planning and dose calculation ensure best and safest patient-individual treatment plans

Deficiencies in Radiation Therapy QA



Suboptimal QA precision and accuracy#



Lack of efficiency / time consuming



Limited confidence in QA tools and processes

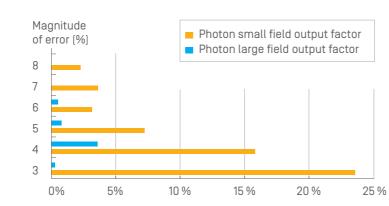
[#] Dosimetric Issues in Radiation Therapy

Radiation Therapy Deficiencies Identified During On-Site Dosimetry...

S. Kry et al.: IJROBP, Vol 99, 5, 2017 P1094-11000

Conclusions: "There is substantial room for improvement of dosimetric issues in RT. Particularly relevant was suboptimal beam modeling in the treatment planning system and a failure to detect these errors ..."





% institutions with errors in output factor

Your Solution: Dosimetry Efficiency and Quality



QA

QA

Peace of Mind

Efficiency

IBA Dosimetry is your most trusted partner for Integrated & Independent QA

- > 45 years of experience in dosimetry and QA

- ✓ 2019: SMARTSCAN™
- ✓ 2020: Monte Carlo
- ✓ 2021: myQA[®] SRS

 - 24/7 Help Center

Instant access to service and support



Treatment Safety Peace of mind

>10,000 satisfied customers worldwide trust

IBA Dosimetry solutions in Radiation Therapy and Medical Imaging

Leading Linac vendors rely on IBA Dosimetry

for their Linac production and in their service organizations

1st high-end clinical training center ICC (International Competence Center)

Secondary Standard Dosimetry Laboratory accredited by SSDL / DAkkS / ADCL

✓ 1973: First computer-controlled water phantom

introduced by Wellhöfer (predecessor of IBA Dosimetry)

the first automated and guided beam scanning

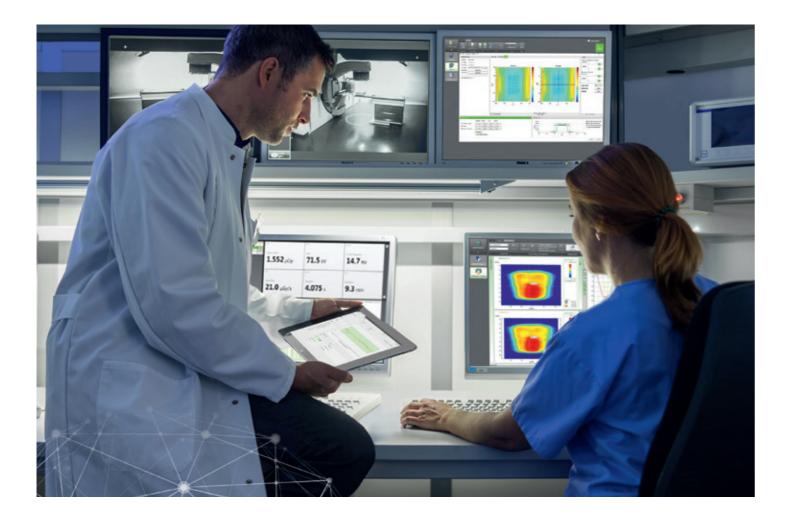
3D Patient QA and Beam Data Verification Audit

Film-class resolution digital detector

MatriXX RESOLUTION™

Highest resolution for IMRT & VMAT Patient QA

Independent Global QA Platform



All-in-One. All Connected. All Secure.

myQA is the proven solution for Integrated and Independent Quality Assurance. Nearly 1,700 healthcare centers in the world trust myQA as their global QA platform.

myQA is a complete Quality Assurance infrastructure consisting of advanced software applications that integrate tasks and protocols as well as phantoms and measurement hardware.

Integrating and Connecting People

- myQA integrates your QA across departments & sites.
- Connect all your department-wide QA for all your applications.
- Integrate your satellite hospitals. Maintain consistency and keep your full QA overview.
- Keep a record of all your QA data on one central server database.

Additionally, the following service components ensure your clinic functions at peak QA performance, maximizing throughput and patient safety:

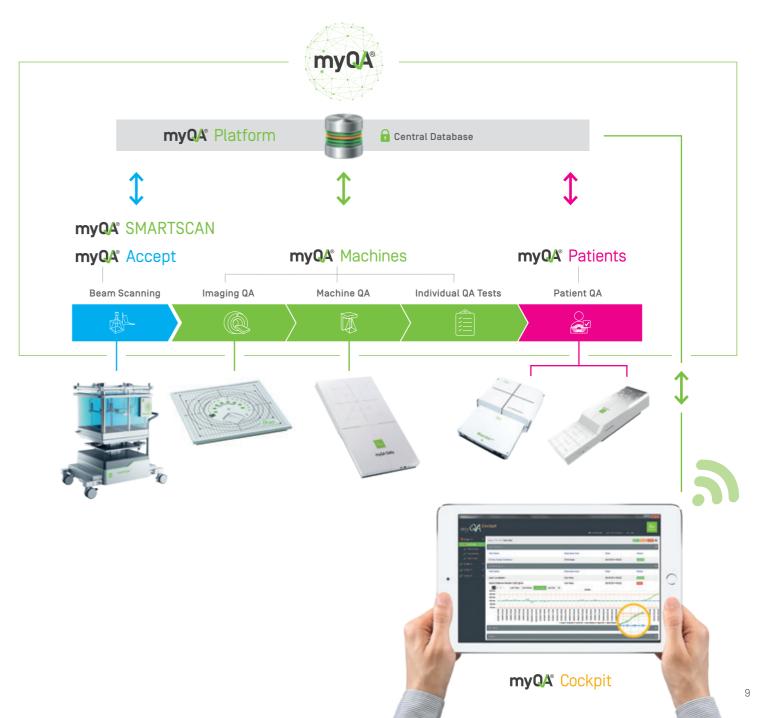
- myQA Coverage service packages for 24/7 phone & online support and frequent software and protocol updates.
- The RSS feed keeps you up to date with access to QA know-how, protocols, and information.
- Trainings (online and on-site at your facility).
- More information can be found on the Service & Support page of this brochure.

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myQA Suite. All-in-One.

myQA is the first of its kind QA platform that integrates your QA applications, processes, workflow, people, and data into one QA framework.

- myQA Platform. The central software connects all QA modules, people, and sites.
- myQA Accept. The beam commissioning and annual QA module.
- myQA Machines. The complete range of machine QA modules including imaging checks. This module includes individual tests to integrate any of your hospital specific tests in myQA.
- myQA Patients. The Patient QA and plan verification module.
- myQA FastTrack. For instant measurements, real-time results & analysis.
- **myQA Cockpit**. Overview of all essential QA data and status.
- Proton Therapy QA now connected to myQA!
- New: trending and tracking of myQA Daily tests in myQA Machines and myQA Cockpit.





All Connected.

- Integrate all your data and applications into one software platform and one Central Database (SQL).
- Accessible throughout your department and even satellites.
- Gain QA workflow efficiency including instant status management and due dates.

All Secure.

- Patient safety: myQA enables a fully holistic QA from your patients to your TPS and Linac validation.
- Full control of your QA data from one interface.
- Data safety and compliance with administration rights, central approvals, and reporting.
- Data integrity and traceability through a single central database.
- Reliable reporting of your QA for documentation and audits.

Integrated QA Overview



All Your QA Data at Your Fingertips. Anytime. Anywhere.

The myQA Cockpit is your browser-based interface that gives you all your essential QA data and status overviews in one intuitive application. Gain full transparency of your key information in your department or even in your satellites!

- Instant QA overview with intuitive and clear reporting, accessible anytime and anywhere.
- Tracking of all QA applications.
- Quick access to your Patient & Machine QA status and test results.
- Track test execution and completion status per schedule.
- Confirm which QA checks passed or failed according to user applied filters.



Watch clinical user presentations "Clinical experience with myQA" James P. Nunn Senior Medical Physicist, USA.

Machine QA Overview

Never Miss Any Key Information

- Have full confidence and control over all your Linacs, imaging devices, and other technology.
- In one view; verify which Machine QA tests have been completed or are still due for completion per schedule.
- Detect negative trends before major problems arise with Trend Analysis.

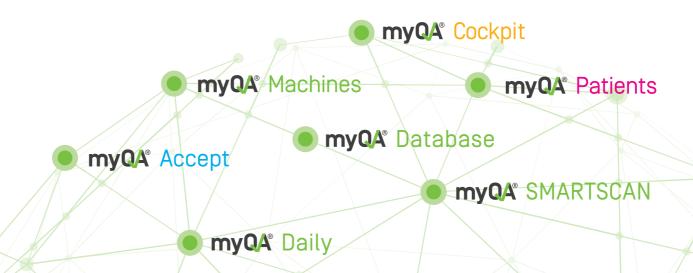


Patient QA Overview

Have Full Control and Confidence of Your **Patient QA Status**

- Immediately see which Patient QA tests are still due for completion per schedule.
- Use myQA Cockpit for Patient QA reviews and to put notes.
- Integrate Patient QA status overview from your satellite departments.

myQ	ACockpit
All Patien	ts
Filter By:	
Patient id i	or name
Patient ID	Family, First Na
1212	Jacobs Emila
1217	Middleton Barba
1214	Hibberts Kevin
1216	Connemara Call
1213	Smith John
1215	Hood Jeremy
4	>



myQA® Cockpit

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Your complete Machine QA status and overview for all Linacs and other machines, including trends and individual thresholds.

				1 12.5%	7 50.0% - 25.0%	12.5%
			Sort By:			
			Case			
ne	Case	Due Date	Appr. Date	Approver	Appr. Status	Appr. Notes
	Breast	18.01.2016	15.01.2016 19:03	Smith	2 Appreved	
n	H&N	22.01.2016			3 Open	
	H&N	21.08.2016	21.08.2016 16:24	Administrator	4 Declined	
lino	H\$N	16.01.2016	15.01.2016 18:56	Holmes	5 Needs R	
	Prostate	17.01.2016	15.01.2016 19:26	Miller	Appreved	
	Prostate	16.01.2016	15.01.2016 19:36	Smith	Approved	

Your complete Patient QA status: 1] Overview, 2] Status Approved, 3] Status open, 4) Status declined, 5) Plan revision needed, 6) Notes

Integrated Beam Scanning & QA



SMARTSCAN™ transforms commissioning into a highly efficient, trouble-free user experience.

Automated and Guided Beam **Commissioning & Annual QA**

SMARTSCAN™ is the most precise and efficient solution to run your beam commissioning. SMARTSCAN™ is designed to give you the best possible beam data each time!



Quality. Automated.

- 100% Beam Data Quality.
- SMARTSCAN is designed to deliver optimal beam data quality.
- Every single scan is instantly checked to detect human errors.
- Suspicious measurements are flagged immediately.



Efficiency. Automated.

- **75% Less Commissioning Effort.**
- Skip 98% of manual operations through SMARTSCAN automation.
- SMARTSCAN guides you safely through the entire commissioning.
- Enables faster clinical implementation of Linacs and TPS.

Peace of Mind. Automated.

- 100% Confidence in Your Commissioning.
- SMARTSCAN commissioning gives you the certainty that your TPS and Linac operate on a reliable database.
- Your foundation for the safe and accurate treatment of your patients.

myQA° SMARTSCAN

- The software for scanning automation and user guidance throughout beam commissioning & annual QA.
- Software plug-in for myQA Accept.
- Compatible with the SMARTSCAN or Blue Phantom² water phantoms.

Integrated Software for Beam Scanning and Analysis

- Efficiency with menu-guided workflows.
- Use your commissioning scans as a reference with your other myQA applications (e.g. for Machine QA).

Rediction type	B Recele B CAX Correction							
And .	Energy	• Eaul	* 6MV		• 😼 🖌			Smooth
	And	• Field a	be orcealine	• Between	• 10.00 em		20.00 e	
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5		16.11.2010	12:18	Crossine	Step by Step	Photone	6 MV	
6		16.11.2010	1218	Opesine	Step by Step	Photone	6 MV	Calculate TPR/TMR.
7		16.11.2010	12.19	Ocealine	Step by Step	Photone	6 MV	Calculate Array
8		16.11.2010	12:19	Opesine	Step by Step	Photone	GMV	Calculate Bodoses
9		16.11.2010	12:20	Crossine	Step by Step	Photone	6 MV	Element Scan
10		16.11.2010	12:20	Operine	Step by Step	Photone	6 MV	E Ionization To Doce-
11		16.11.2010	12.21	Crossine	Step by Step	Photons	6 MV	
12		16.11.2010	12.21	Crossine	Step by Step	Photone	6 MV	Wedge Factors
13		16.11.2010	12.22	Opesine	Step by Step	Photone	6 MV	1 Wedge Angle

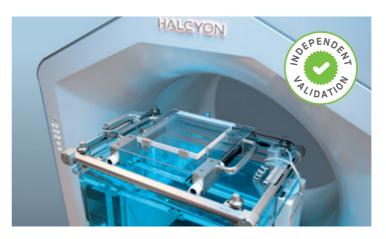
myQA Accept Workflow Efficiency

1. Queue Setup	2. Data Acquisition
Automatic Queue Generation.	Fast & automatic data acquis
Sorting, prioritizing, and optimization of	predefined queues for all ma
scan queues to maximize efficiency.	Fastest scanning with optima

- Intuitive setup of user specific queues.
- sition with aior TPS. al resolution through scanning speed adaptation.

Integrated Hardware for Your Comprehensive Beam Scanning, Commissioning, and Annual QA.

- All water phantoms with certified positioning accuracy +/- 0.1 mm.
- Long-term mechanical stability and reliability.
- Unique 1 minute micro-leveling technology for accurate setup.



myQA HALO[™] Integrated QA for Varian[®] Ethos[™] / Halcyon^{™ 1}

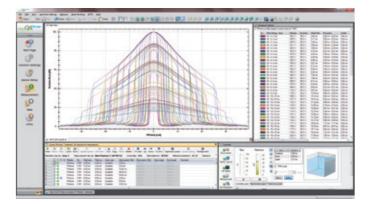
- The Commissioning & Beam Data Collection package for Halcyon[™].
- Relies on the same beam scanning technology Varian[®] uses in the factory and for developing the Halcyon™.

Blue Phantom COMPACT

Compact footprint 2D high-end water phantom with minimized weight for easy transportation and for annual checks.

myQA® Accept

Build your reference database of commissioning scans to compare with new installations and to match Linacs.



3. Data Handling & Analysis

- Accurate data analysis via standard and customizable protocols.
- Overlaying profiles for quantitative comparison.
- Library of mathematical smoothing and interpolation functions.



Blue Phantom 2

- The world's most widely used 3D water phantom for faster highly accurate scanning.
- For complete Linac commissioning & QA.



Blue Phantom HELIX Commissioning & QA for TomoTherapy[®].^{1]}

Integrated Machine & Imaging QA



Integrated software and hardware for your comprehensive Machine and Imaging QA needs and for your individual tests execution and management.

myQA Daily

The Only Solution for Fast, Easy, and High-Quality Morning Linac QA.

- The largest number of ionization chambers of any morning QA detector provides more beam data for more accurate beam quality verification.
- The web-browser-based myQA Daily application allows flexible test execution from any network PC or tablet and easy access to test results.
- Compatible with Varian[®] Ethos[™]/Halcyon[™].¹
- Rotating Holder: Measurements with Linac at 0°, 90°, 180°, and 270°.

StarTrack

The Universal Machine QA Solution

- For advanced monthly & annual Machine QA.
- 453 air-vented ionization chambers.
- Compatible with Varian[®] Ethos[™]/Halcyon[™].¹)

Detectors for Machine QA dosimetry

- Connect StarTrack, MatriXX or Dolphin detectors to myQA.
- All main tests in one shot: dose, profiles, diagonals, energy verification, etc.





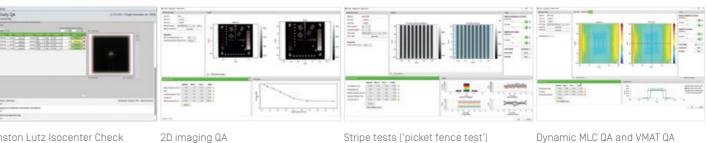
Multiple phantoms integrated

Integrated Software for All Imaging and Machine QA Needs

- Full test coverage: Dosimetry, imaging, MLC QA ... and more.
- Protocol-based and workflow-optimized tests.
- Easy access to all QA results and trends in myQA Cockpit.
- Reference your Machine QA data with your commission data.



3D imaging QA (CT/CBCT)



Winston Lutz Isocenter Check

Individual QA Test: Integrate Any of Your Specific Tests



myQA[®] Machines

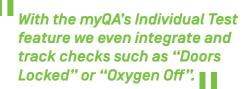
- TG-142 and many more protocols included.
- Comprehensive analysis, archiving, and reporting tools.
- Flexible scheduling tool to manage your tasks, resources & time.

Dosimetry plug-in

Stripe tests ('picket fence test')

Dynamic MLC QA and VMAT QA

- Your individual QA checks and any other tests can easily be integrated with the myQA customizable generic tests functionality.
- Easily compose any test you need to check and document.
- Example: Check the temperature of your medicine
- fridge, check your room lighting or security locks ...



James P Nunn, MS, CHP, DABR Senior Medical Physicist LewisGale Regional Cancer Center, Pulaski, USA

Integrated Patient QA



Smartly designed measurement tools and advanced integrated verification software are your basis for efficient & precise Patient QA. IBA Dosimetry offers dedicated solutions to ensure your independent patient plan verification is the fastest, most accurate and most reliable.

Patient QA Hardware

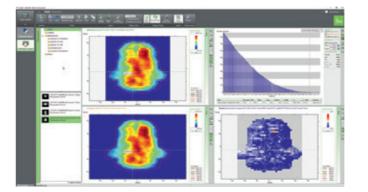
- Select from a wide range of dedicated solutions to ensure your patient plan verification is performed efficiently.
- MatriXX detectors support FF and FFF beams and support energies of all standard linac types.



MatriXX detectors



- 2D Patient QA application for IMRT, rotational, and FFF treatments. Patient QA workflow efficiency, including instant status management and due dates.
- Reliable reporting of your Patient QA for documentation and audits.



myQA Patients plan QA verification window

F

Import & Full DICOM Interface Easy Measurements

- Support of DICOM Listener, Query/Retrieve, file-based import, and DICOMDIR.
 Introduction
- Variety of supported dose & fluence map formats.

1. Import & Manage Patients

Quick Patient Overview

- Patient list filter by case or approval status.
- Easy Measurements
 Intuitive operation with visual confirmations.

2. Measure

- Beam trigger mode.
- Field-by-field mode and combine fields.

Interface for Measurements

- MatriXX detectors: IMRT / VMAT measurements.
- myQA SRS: SRS / SBRT measurements.
- Film-based measurements.

myQA[®] Cockpit

Instant status overview of your Patient QA

The patients view of the myQA Cockpit provides full control over your Patient QA.

Gain a complete status overview with browser-based access – anytime, anywhere!

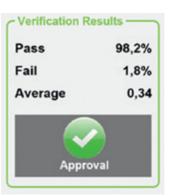
miniphantom R

Solid phantom with elliptical geometry used for optimal Patient and Machine QA.

Easy setup and handling for the MatriXX RESOLUTION, film, and ionization chambers.

myQA[®] Patients

 Multichannel Film Dosimetry supported: Accuracy for IMRT, VMAT, and SBRT/SRS. Eliminates films/scanner artifacts. Supports high doses.



Automatic instant gamma results

3. Verify

Verification Efficiency

 One click workflow with automated Gamma results.

4. Approval & Report on the Database

Fast Reporting and Archiving

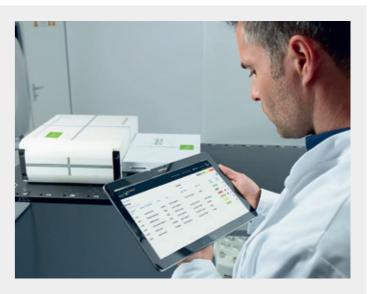
- Export your report as RTF, HTML or PDF file.
- Data export via ASCII/CSV.

Verification Power

- Single/composite IMRT.
- Relative/absolute dose.
- Local & global gamma.
- Film analysis.

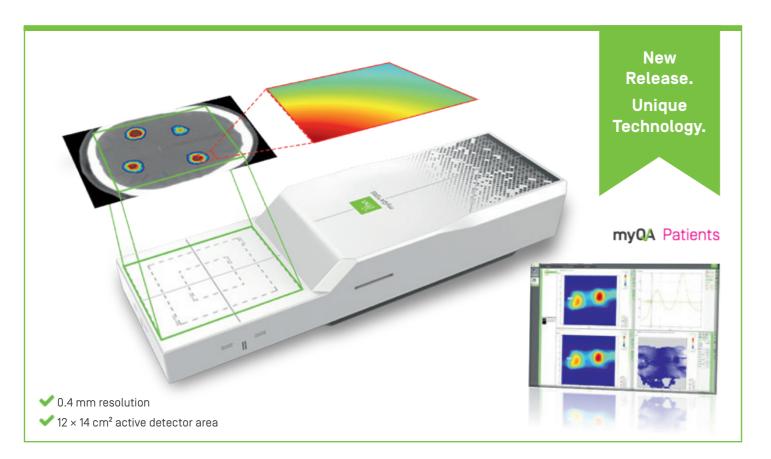
Approval Efficiency

 Electronic approvals with personalized comments.



SRS / SBRT Patient QA





myQA[®] SRS

The power of SRS revealed!

The new myQA SRS for filmless digital patient plan verification combines the best of both worlds:

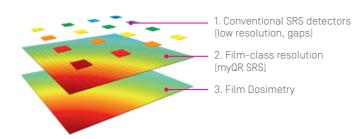
- Unrivaled resolution and accuracy of film QA,
- Proven efficiency of digital detector array workflow.

Film-Class Accuracy

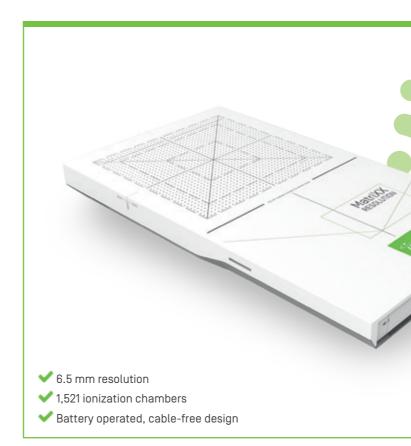
- The unique digital solid-state pixel array provides submillimeter high-definition measurement resolution for all stereotactic cases.
- 105,000 pixels total with a 0.4×0.4 mm² center to center resolution.
- 12 × 14 cm² active detector area.
- Real measurements: No dose interpolations required.
- No missing data between measurement points.
- Avoids false QA results even for steep dose gradients.

Digital Detector Workflow Efficiency

- Straightforward SRS / SBRT QA workflow as easy as your proven IMRT QA procedures.
- Avoid time-consuming film dosimetry.
- Fast and straightforward SRS QA implementation.
- Easy and accurate detector setup with dedicated SRS QA phantom.
- Avoid "false results" as reported with standard detectors and save time by avoiding remeasuring and searching for source of errors.







MatriXX RESOLUTION [™]

Highest resolution detector array in the market for IMRT & VMAT Patient QA accuracy and for Machine QA.

Outstanding Accuracy

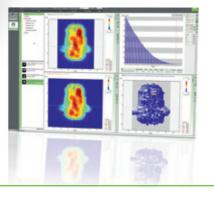
- 50 % more measurement points compared to previous MatriXX detectors for highest IMRT & VMAT measurement resolution.
- 1,521 ionization chambers and 6.5 mm highest resolution for VMAT / IMRT.
- 39 ionization chambers for each centerline offer greater accuracy, especially in the penumbra regions.
- Wireless Gantry Sensor+ enables precise QA of rotational cases.

Unrivaled Efficiency

- MatriXX RESOLUTION is optimized for your workflow efficiency and ease of use.
- Fast and straightforward detector setup without cables.
- Complete wireless and battery-powered design.
- miniPhantom R: Solid phantom with elliptical geometry used for optimal Patient and Machine QA with the MatriXX RESOLUTION, film, and ionization chambers.
- Efficient measurements and verification with myQA® software.
- Support of FF/FFF beams. For standard C-arm Linacs, Varian® Ethos™ & Halcyon™ TomoTherapy®/Radixact®. 1

Now Available. 50% more data points.



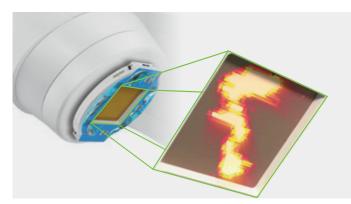






3D Patient QA



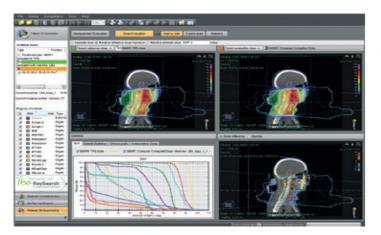


Real patient dose measurements and QA

DOLPHIN® Most Advanced 3D Patient QA Measurements

DOLPHIN real Linac output measurements for 2D and/or 3D plan QA for pre-treatment QA.

- High accuracy: 1513 ion chambers, 5 mm spacing (central area).
- Full field size: 40 × 40 cm² measurements in one setup.
- High efficiency: 60 sec. setup & readiness for QA measurement.
- 6MV and 10MV photon beams, flattened and FFF.
- Use DOLPHIN for Machine QA with myQA Machines.



COMPASS - 3D Patient Dose QA Software

Verification Certainty

- Reconstruct the real patient dose in the patient's anatomy based on DOLPHIN or MatriXX measurements.
- Understand the source of deviations and the clinical impact of the actual delivery.
- High accuracy powered by independent TPS-class dose engine.

Efficiency

- Instant automatic verification.
- TPS proven intuitive analysis tools (DVH/comparative Doselines).

Monte Carlo 3D Plan QA & Dose Check



Monte Carlo 3D Patient QA Accuracy. Ensured.

SciMoCa[™] establishes a new standard for accuracy and efficiency in secondary dose check and independent plan QA.

- Accuracy Ensured: Monte Carlo QA dose calculation accuracy.
- Performance Ensured: Workflow efficient and automated 3D dose calculations in <2 minutes.##
- Confidence Ensured: Independent QA of the whole treatment planning process.

Accuracy

- SciMoCa achieves an accuracy of < 1% # and matches</p> the precision of Varian's Acuros[®] Algorithm.¹
- Sophisticated Monte Carlo implementation and custom machine-specific Linac beam model.

Calculation Speed

- Truly impressive Monte Carlo calculation speed with optimized dose engine for full 3D calculations.
- Background calculation time example: Head & Neck VMAT [2 Arcs, 293 control points] is calculated in < 1 minute.##

Patient QA for all major Linacs

■ SciMoCa supports: Elekta[™], Siemens[™], CyberKnife[®], TomoTherapy[®], and all Varian[®] Linacs including Halcyon[™] and Ethos[™].¹

SciMoCa published results: Gamma 2 %/2 mm pass > 97 %, with deviation SciMoCa vs. Acuros® of mean dose in patients < 1%: Hoffmann et al., Validation of the Acuros® XB dose calculation algorithm versus Monte Carlo. Med Phys. 2018 ## Calculation times on dual 8-core Intel Xeon E5-2690 server with hyperthreading (32 logical cores) for dose calculation with final statistical uncertainty of 1%.

Oesophagus	(Esophagus)		SMC	% Difference
D40% (< 50.00 Gy)		3.25 Gy	3.36 Gy	-0.31 %
DMean (< 34.00 Gy)		3.12 Gy	3.30 Gy	-2.58 %
He	ert	195	SMC	% Difference
D33% (< 60.00 Gy)		3.71 Gy	3.81 Gy	-2.69 %
D67% (< 45.00 Gy)		1.33 Gy	1.38 Gy	-3.75 %
0100% (< 40.00 Gy)		0.11 Gy	0.11 Gy	0.00 %
DMean (< 26.00 Gy)		1.36 Gy	3.33 Gy	-2.29 %
Spinal Cord	(SpinalCord)	TPS	SMC	% Difference
D0.03cc (< 48.00 Gy)		5.13 Gy	5.46 Gy	-6.44 %
DMax (< 45.00 Gy)		5.25 Qy	5.54 Gy	-5.58 %
Lunge bd	s (Lungs)	TP5	SMC	% Difference
D30% (< 20.00 Gy)		5.25 Gy	5.37 Gy	-2.29 %
DMean (< 20.00 Gy)		5.73 Gy	5.88 Gy	-2.62 %
PTV(P	7TV_1)	TPS	SMC	% Difference
D95% (> 95.00 % Rx)		64.10 % Rx	67.06 % Rx	-2.96 %
DMax (< 110.00 % Rx)		100.91 % Rx	98.47 % Rx	2.44 %

Automatic analysis and display of dose verification results



DVH & dose difference of TPS vs. independent Monte Carlo dose

Absolute Dosimetry Solutions

Detectors



IBA Dosimetry offers a complete range of products including reference class electrometers, water phantoms and radiation detectors for dosimetry of photon and electron beams and radioactive stability check devices.

Reference Class Electrometers

Dose1

- Single Channel high-performance Reference Class Electrometer.
- Significantly exceeds the recommendations of the IEC 60731.
- Dose, dose rate, average dose rate, charge, current, and dose per monitor unit are measured and displayed simultaneously.

Dose2

Dual-channel, high-performance reference class electrometers for measurements of absorbed dose.

Phantoms for Absolute Dosimetry

WP1D

- 1D stand-alone water phantom.
- For absolute dose measurements according to TG-51 and IAEA TRS-398 dosimetry protocols.
- Available as motorized or manual version.

WP34

- Calibration Water Phantom.
- Absolute dose measurements with horizontal beam arrangement. For calibration of ionization chambers in RT.

Solid phantoms for absolute dosimetry

Discover more on iba-dosimetry.com







IBA Dosimetry offers a full range of ionization chambers and diode pSi semiconductor detectors for various 2D and 3D water phantom systems and solid phantoms.

Ion Chamber detectors are from our in-house production and have been extensively tested to meet the highest criteria in radiotherapy dosimetry.

Small Field Dosimetry Detectors

The ideal solution for SRS and SBRT beam commissioning and annual QA

Stealth Chamber – Unique Reference Chamber

- Patented "perturbation-free" design attached to the gantry for excellent reference signal quality.
- Eliminates frequent reference chamber repositioning and therefore dramatically reduces the need to enter the Linac room.

RAZOR – Ion Chamber and Diode Detectors Family

- Beam data accuracy for extremely small SRS/SRT field scanning.
- RAZOR NanoChamber: Smallest ionization chamber on the market with active cavity of 0.003 ccm.
- RAZOR Chamber: Compact air ionization chamber. Cavity volume 0.01 ccm.
- RAZOR Detector: High-performance diode detector.

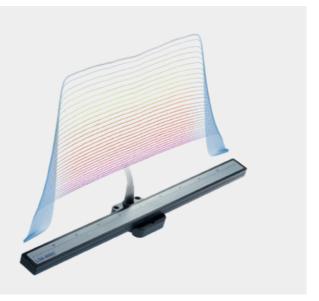


Best Practices and Experience with Dosimetry & QA Solutions. Watch the teasers (open access).



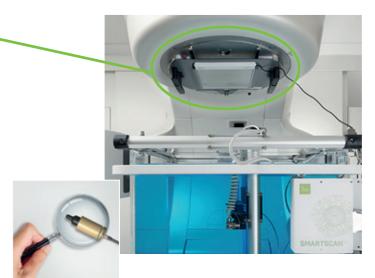
Register to discover all presentations.

22



Linear Diode Array – LDA99

- 5 times faster beam scanning, dramatically shorter commissioning times.
- Scans the complete profile at once.
- High resolution measurements down to 0.5 mm.

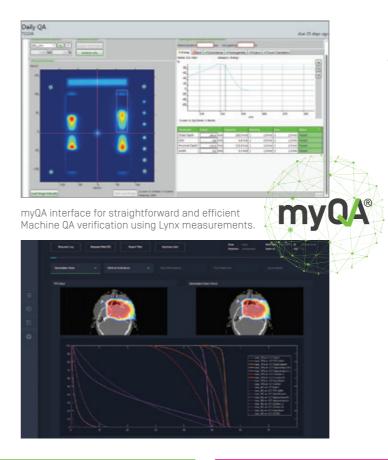


Independent Proton Therapy QA



Select from a full range of dosimetry equipment tailored to the needs of your Proton Therapy center:

- Dedicated high-end solutions designed for PT treatment safety and QA efficiency.
- Unique innovations to minimize commissioning and QA times and maximize patient throughput.
- QA solutions designed for and used with all major Proton Therapy machines and vendors.



Commissioning

myQA[®] Phoenix – high-resolution digital detector array with >4 million pixels and 0.2 mm resolution



Blue Phantom PT - water phantom with **Stingray** large integral chamber for PBS Blue Phantom² - 3D water phantom



Zebra – single-shot Bragg peaks & SOBP measurement

Giraffe – single-shot Bragg peak measurement





Machine QA

Sphinx/Sphinx Compact your daily QA in one shot

Lynx PT - daily machine parameter verification

DigiPhant PT - fast 2D/3D dose measurement in water



Integrated Machine QA for Proton Therapy

Analyze your machine parameters comprehensively in myQA:

- Visual pass-fail analysis.
- Trend analysis to detect deviations early and to ensure maximum machine uptime.
- Save all your QA data in a central database.

Integrated Patient QA for Proton Therapy

myQA iON: The unique web-based Patient QA environment

- 5 times faster Patient QA with PT log file QA.
- Independent Monte Carlo QA accuracy.
- Automation, background processing, and task based workflow management.



Patient QA

MatriXX PT/ONE - your ultimate high-dose-rate detector arrays

Machine Log File - 3D analysis with myQA iON



QA for Imaging in Diagnostics & RT

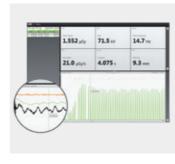


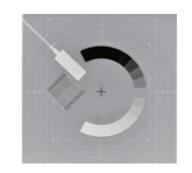
IBA Dosimetry is your full QA solution partner for quality control in Medical Imaging:

- Better image quality for improved diagnosis and therapy.
- Advanced imaging dose control for patient safety.

Safer Imaging, Better TPS Contouring

- Innovative Quality Assurance (QA) devices for x-ray dose and image quality checks, as well as QA of diagnostic displays.
- Patient dose monitoring solutions for x-ray imaging systems.





Beam QA

Image QA

Multimeter MagicMaX Universal

High-end multimeter solution for Beam QA in all x-ray modalities and for CT/CBCT

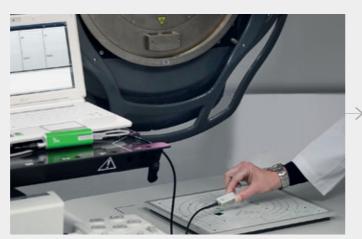
- Supports all x-ray modalities through exchange of detectors and ionization chamber.
- Complete solution kits available.

Imaging phantoms and test plates

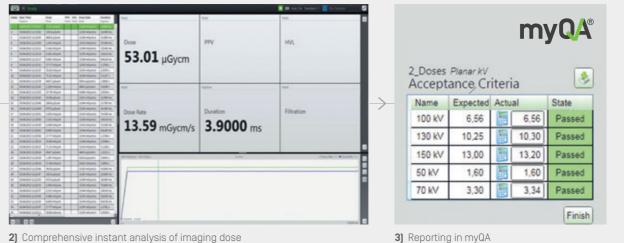
- Test plates for 2D image quality checks.
- CT/CBCT Phantoms.

QA Application for **RT Imaging Devices**

- Beam dosimetry and kV imaging QA for applications in RT (e.g. for CBCT, OBI, and CT-Sim. 2D/3D imaging).
- Linac imaging: In a single exposure, evaluate your kV beam, flat-panel imager, and imaging dose.
- CyberKnife[®]: Unique efficiency through support of serial exposures.



1) Setup test plate & MagicMaX XR multidetector for QA of kV imager









Patient Dose Monitoring







Service and Support

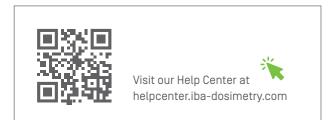


24/7 global telephone support by trained & certified engineers

Service Accessibility. Service Quality. Service Assurance.

At IBA Dosimetry, service is about how we care for our customers. It is our aim to delivery the utmost service quality, service accessibility, and service assurance! Discover how our team supports you to ensure your equipment's peak performance and to protect your investment.

With over 45 years of experience keeping clinics running efficiently and safely, you can be assured that our 3 service teams and additional service partners around the globe are there to support you when you need help.





Education & Trainings

Gain leading QA knowledge and ensure best practices!

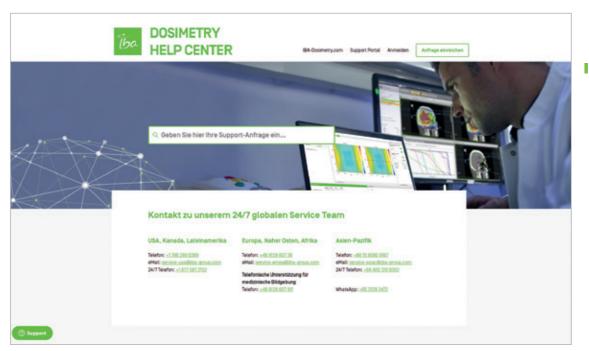
- The Clinical Presentations Hub: Learn from peers and experts.
- IBA Academy and the International Competence Center (ICC).
- Expert led workshops with hands-on practices.
- Training webinars and videos.
- Remote and on-site coaching services.

24/7 Support When YOU Need it!

The new IBA Dosimetry Help Center:

Connect with our 24/7 Global Support Team, whenever and wherever you are! Your direct access

- to our global customer support team
- to your support ticket status
- to our knowledge base with more than 800 support articles



Your IBA Dosimetry Help Center: helpcenter.iba-dosimetry.com

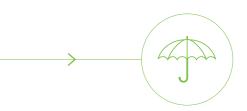
Service Accessibility

- Online Help Center.
- Expert telephone support.
- Trained & certified technical engineers.
- commissioning services. Calibration services (IBA Secondary)
- Factory-based precision preventative maintenance & certification.

Manage the list of your IBA equipment, view service reports, and view information related to warranty and contract expiration. Free for contract customers. Contact your IBA service organization for more information and availability.

> The new IBA Dosimetry Help Center gives me direct access to customer support at any time: I can easily check the status of my support tickets and directly comment on them. In addition, the knowledge base provides me and my colleagues with fast access to product information and many helpful support articles.

> > Mathias Dierl, Chief Medical Physicist, Klinikum Bayreuth, Germany



Service Quality

- Customizable and affordable
- service packages.
- Onsite installations &
- Standard Dosimetry Lab].

Service Assurance

Secure your convenient service program with our coverage contracts. Enjoy a maintenance schedule planned in advance, so you can focus your time where it is needed the most. Ensure years of peak performance of your QA hardware and software right from the start.

- Customizable coverage contracts tailored to your needs.
- 24/7 expert hotline.
- Regular software updates with myQA Coverage.

IBA Dosimetry



IBA Dosimetry GmbH headquarters in Schwarzenbruck near Nuremberg, Germany

Improving patient treatment safety through innovative, integrated & independent Quality Assurance solutions

At IBA Dosimetry, we innovate Radiation Therapy and diagnostics through integrated and independent Quality Assurance solutions that are efficient, intuitive, and provide peace of mind to you and your clinic!



Secondary Standard Dosimetry Laboratory

IBA Dosimetry operates a Secondary Standard Dosimetry Laboratory accredited by SSDL/DAkkS/ADCL:

The basis for highest quality IBA Dosimetry products and services.

Through the SSDL we offer high-end calibration services of dosimeters & detectors, electrometers, and metrological control for Linac and ⁶⁰Co irradiations.



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Join Us in the Fight Against Cancer

IBA Dosimetry has worldwide recognition in its field by developing and supplying the world's top healthcare institutions with precise, efficient, and reliable Quality Assurance solutions. If you are passionate and cause-driven, you can make this quest yours.



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- YouTube | youtube.com/user/ibadosimetry

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