DOSIMETRY



myQA® SRS for CyberKnife®

Film-class digital resolution and efficiency for CyberKnife® QA

Life. Science.

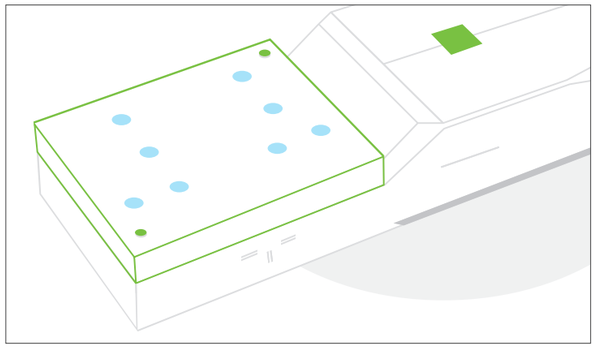
Novel QA technology for CyberKnife® users

Your SRS/SBRT QA solution dedicated for CyberKnife®

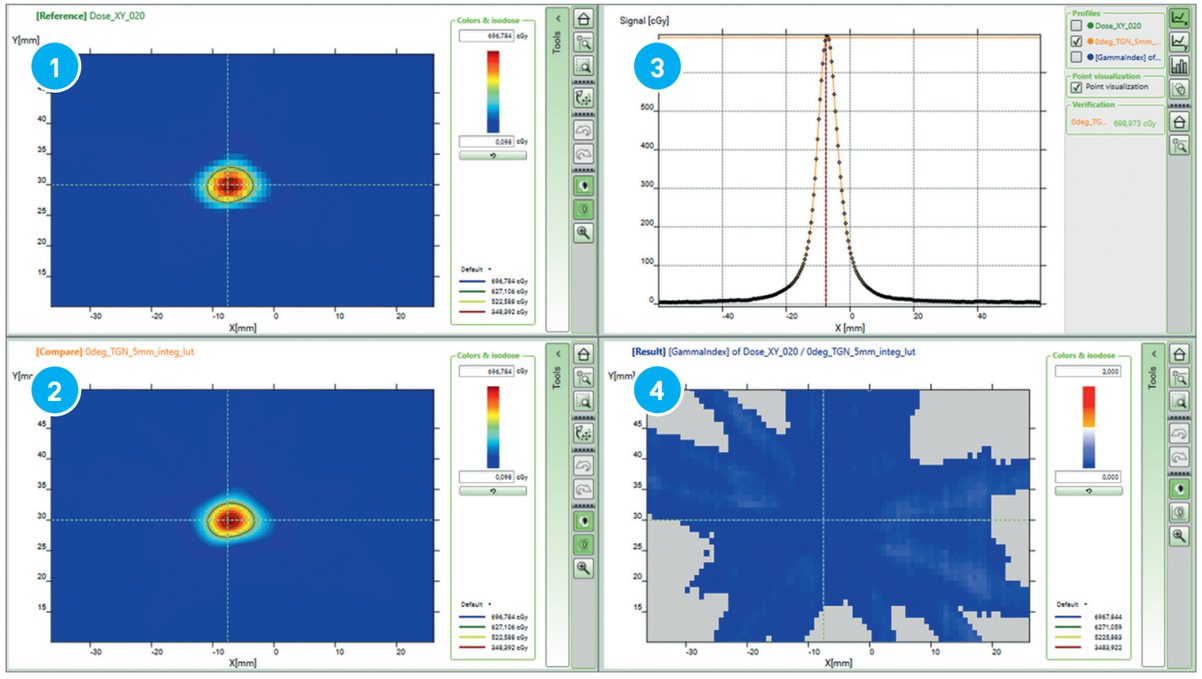
myQA® SRS for CyberKnife® provides all tools CyberKnife® users need for accurate and fast machine and patient QA. With 0.4 mm film-class resolution and a 12 × 14 cm^2 sensor area, myQA® SRS for CyberKnife® combines the accuracy and resolution of film QA with the proven efficiency of a digital detector array.



myQA® SRS detector and phantom



CyberKnife® specific fiducials support easy positioning of the myQA® SRS system



Easy and straightforward QA workflow

1. TPS calculated dose distribution with 2 mm resolution
2. myQA® SRS measured dose distribution with 0.4 mm resolution
3. Detailed profile analysis with numerous measurement points
4. Detailed Gamma index analysis - 3%/1mm, 99.9% passing rate

Accuracy

- 0.4 mm resolution
- No gaps between measurement pixels
- Seamless QA of millimetric target sizes with multiple measurement points
- Automated SAD and angular correction application

Easy clinical implementation

- Supported modalities: Iris, cones, MLC
- Large 12 × 14 cm^2 sensor area
- Absolute dose readouts
- CyberKnife® specific fiducials for easy positioning tracking
- Evaluation of multiple targets at once
- 3D dose distribution visualization and selection of arbitrary dose planes for the evaluation
- Film-less high precision machine QA

Efficiency and time savings

- Fast digital detector array readout speed
- Instant results available
- Accelerate linac QA workflows without compromising accuracy

NEW

Machine QA with myQA SRS for CyberKnife®

- Accelerator output constancy
- Auto QA (AQA)
- Laser/radiation beam CAX coincidence
- Beam constancy (Iris, cone, MLC)
- MLC tests

Filmless QA. Instant Results. One Platform for PQA & MQA.

Learn more on webpage

myQA® SRS Detector Array

	Specifications
Field size/Active measurement area [cm²]	12 × 14
Number of detectors	105,000
Resolution [center-to-center distance] [mm]	0.4
Detector/sensor type	CMOS
Detector size [mm²]	0.4 × 0.4
Array dimensions [cm³]	48 × 15.4 × 10.4
Array weight [kg]	~4.5
Supported energies	FF-FFF
Power	Cable
Data transfer	Ethernet

myQA® Software

	Recommended specifications
Supported operating systems:	Windows® 10, 64-bit, US English
Supported SQL Servers®:	SQL Server® 2016 SP3 or higher
Minimum hardware requirements [or equivalent virtual runtime environments]:	· Processor: Intel® Core™ i5 desktop or mobile processor or better
	· Graphics card: DirectX® 9c compatible, 256 MB video RAM, no shared memory
	· 16GB RAM required
	· Ethernet minimum 10Mbit/s

For more details, please contact your IBA Dosimetry representative.

myQA® SRS Phantom

	Specifications
Outer dimensions [cm]	59 × 29.7 × 45.2
Weight [without inserts, kg]	14.7
Material	RW3



"With angular and SAD corrections applied, the myQA® SRS array provided very good results and high agreement with the TPS data and is well-suited for pretreatment verification of CyberKnife® SRS plans."

Dr. Kim Holm
Medical Physicist, Department of Radiation Oncology
Heidelberg University Hospital
Heidelberg, Germany



"We are actively looking to treat functional cases such as OCD and tremor on CyberKnife® in the future. The doses for such cases are extremely high; for example, the central dose for tremor is 140 Gy, and the target sizes in these cases are even smaller, so the consequence of inaccurate delivery is even more severe. Based on our current testing and the improved workflow on myQA® SRS, we think myQA® SRS's high resolution will provide us with confidence of the treatment delivery accuracy for these cases."

Cynthia Chuang, PhD, DABR
Clinical Associate Professor, Department of Radiation Oncology,
Stanford University
Stanford, California

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