

**NEW – AVAILABLE NOW**

**iba**  
DOSIMETRY

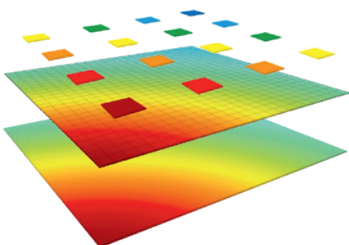


# myQA<sup>®</sup> SRS

**The power of SRS revealed!**

Film-class digital resolution and efficiency  
for SRS / SBRT Patient QA

## Resolution matters



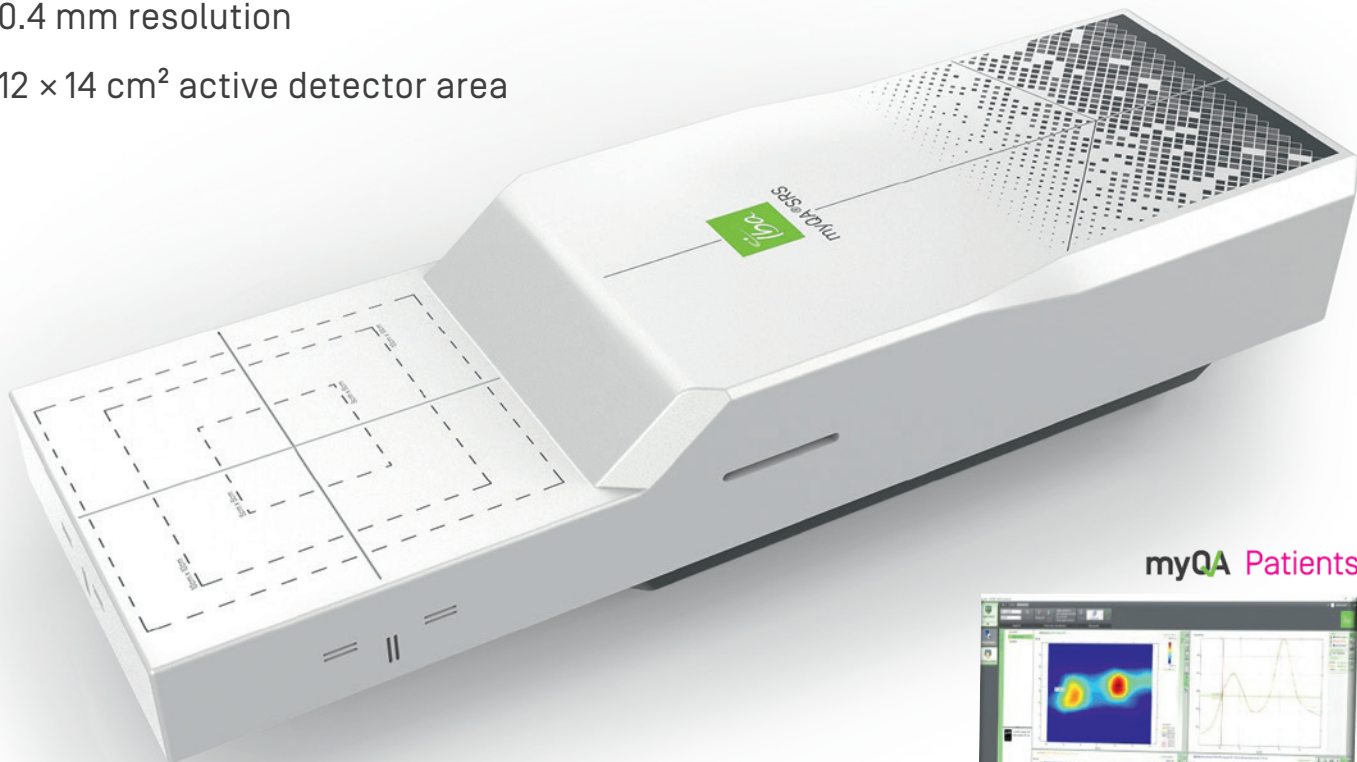
- ✓ 0.4 mm resolution
- ✓ 12 × 14 cm<sup>2</sup> active detector area

**PROTECT +  
ENHANCE +  
SAVE LIVES**

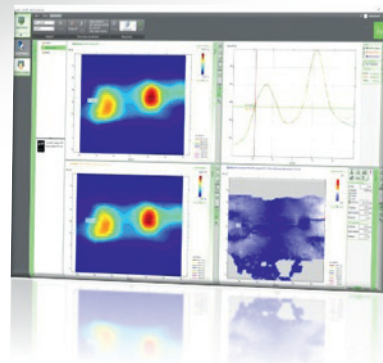
# myQA<sup>®</sup> SRS

## The power of SRS revealed!

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- ✓ 12 × 14 cm<sup>2</sup> active detector area



myQA Patients

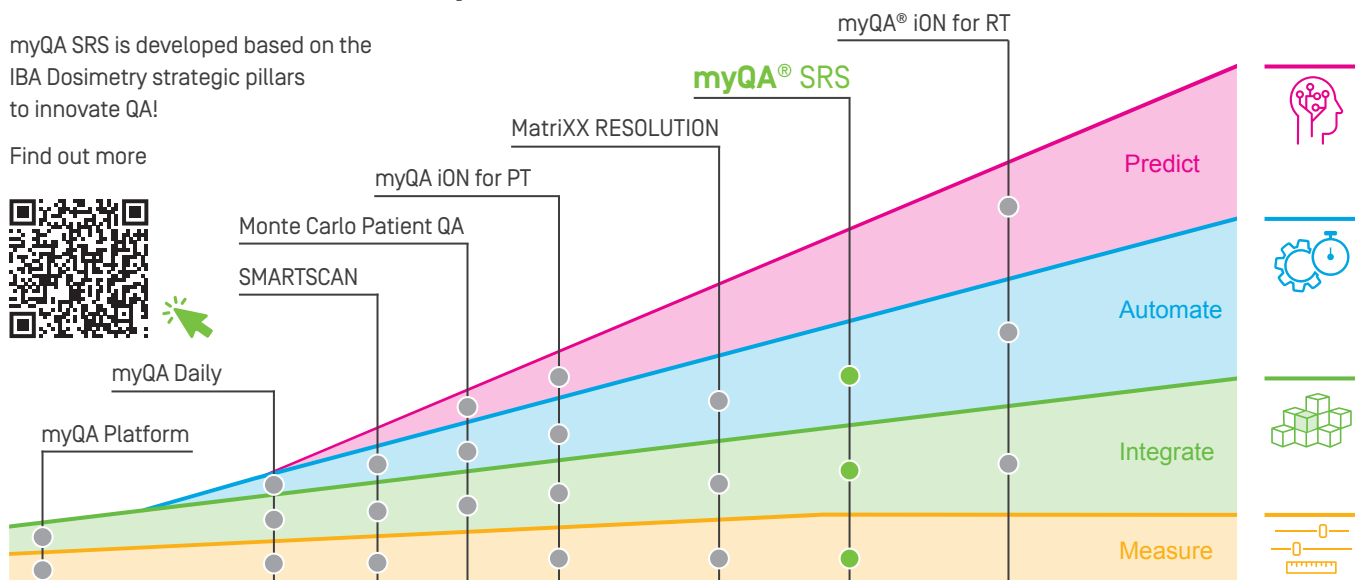


The new myQA SRS solution combines the best of both worlds: unrivaled accuracy and resolution of film QA, with the proven efficiency of digital detector array workflow. It's the new and unique solution for filmless patient plan verification.

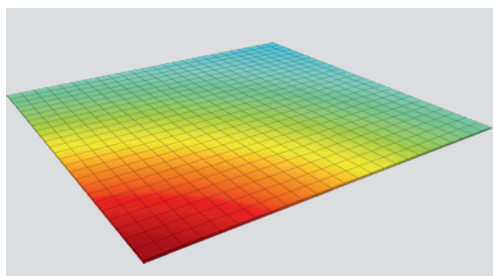
### Innovation & Evolution of Quality Assurance

myQA SRS is developed based on the IBA Dosimetry strategic pillars to innovate QA!

Find out more

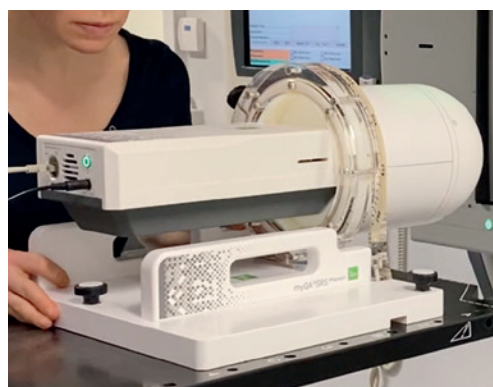


# myQA<sup>®</sup> SRS Film-Class SRS/SBRT Patient QA without Film, for All Your Stereotactic Patient QA



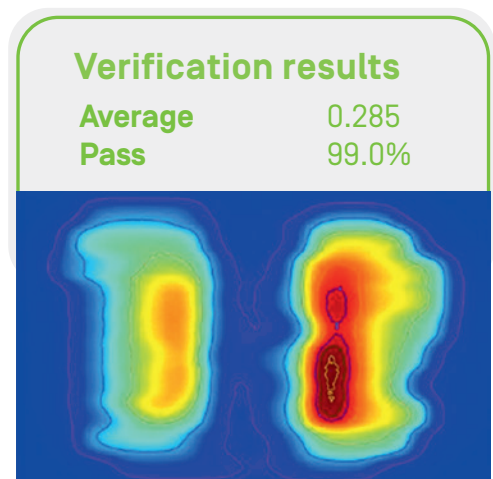
## Film-Class Accuracy

The **unique digital solid-state pixel array** provides sub-millimeter high-definition measurement resolution for all stereotactic cases.



## Workflow Efficiency

Digital detector QA with advanced verification software ensures seamless and fast QA measurements and verification. Your SRS / SBRT QA workflow is as easy as your proven IMRT QA procedures.



## Confidence & Safety

Peace of mind that all your SRS and SBRT patient treatment plans and treatment delivery are safe.



## Experience with myQA<sup>®</sup> SRS



||

*Patient-specific SRS and SBRT QA results look great using the myQA SRS even for very tight parameters of 2mm/2%. The digital detector QA workflow with myQA SRS is 10<sup>6</sup> times faster and easier compared to using film. The film-equivalent resolution for our QA measurements is the basis for better and more meaningful SRS patient plan verification with a high sensitivity and specificity to detect real dosimetric issues.*

**Yun Yang, PhD, DABR**

Department of Radiation Oncology, Rhode Island Hospital, USA

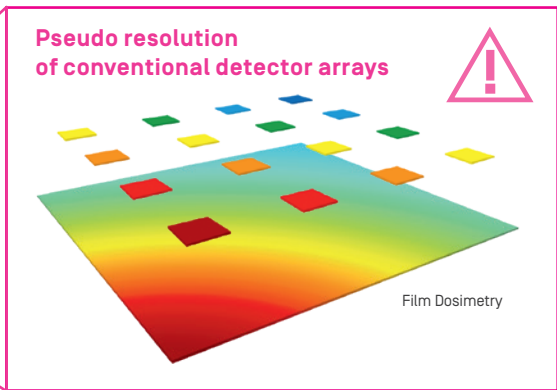
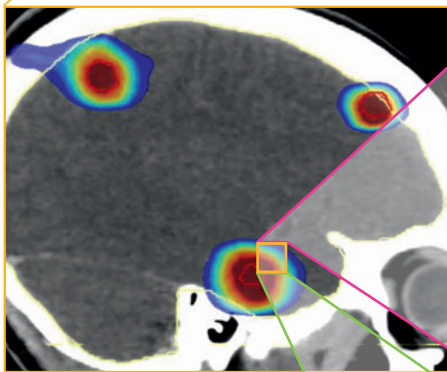
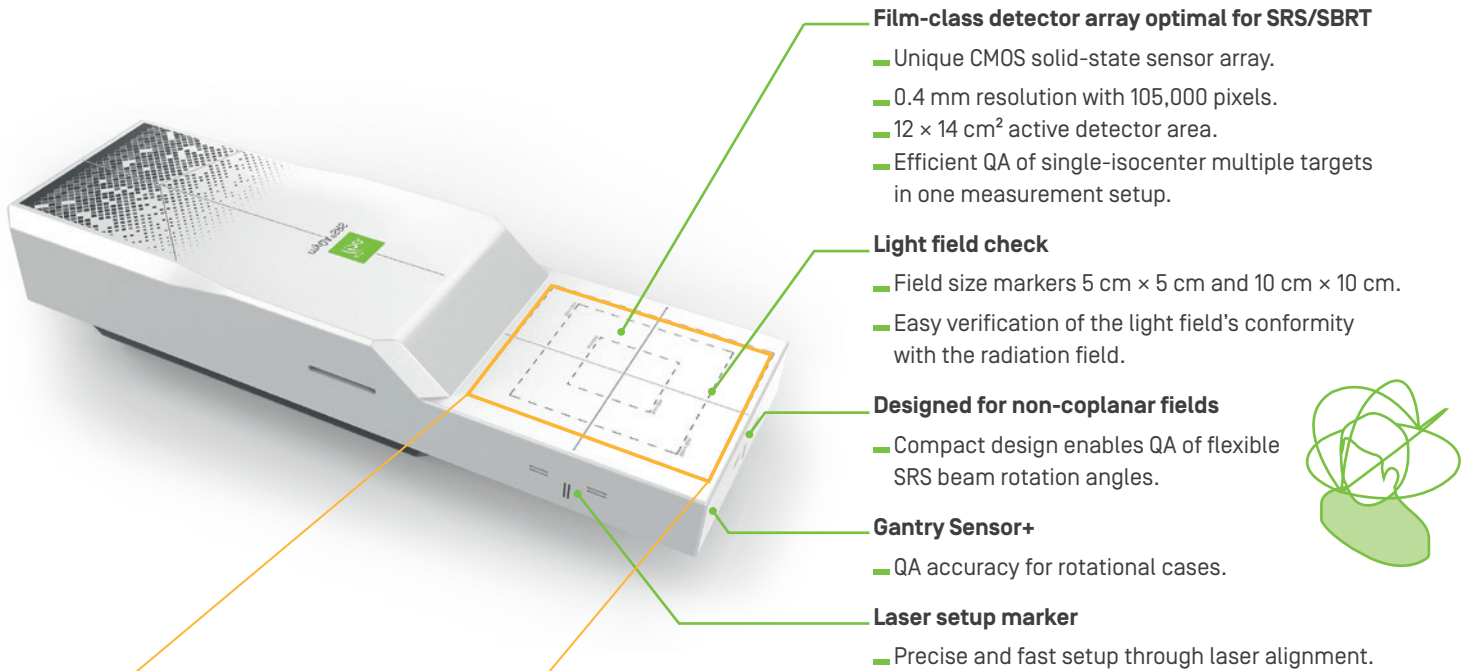
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# When Accuracy matters, Resolution matters!

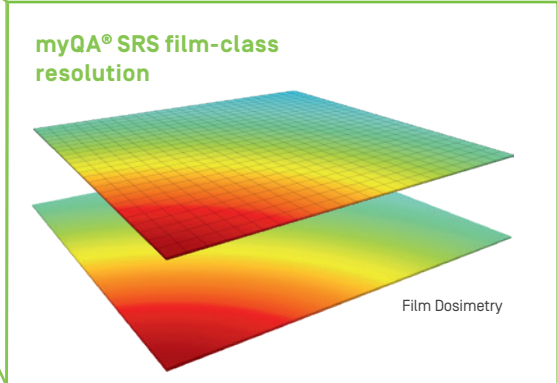
## Dedicated for Stereotactic QA

- High-resolution measurements even for steep dose gradients.
- Real measurements – no dose interpolations required as with low-resolution detectors.
- Avoids false QA results.
- Provides reliable QA test results equivalent to film QA.
- Largest high-resolution SRS detector field size for QA of multiple PTVs at once.
- Measurement-based Patient QA is strongly encouraged: AAPM-RSS Medical Physics Practice Guideline 9.a. for SRS/SBRT.
- No resolution compromises even for QA of very small SRS targets.



### Limitations of conventional "SRS detector arrays"

- Measurements of only a few discrete points.
- Need to fill the dose gaps through software interpolation.

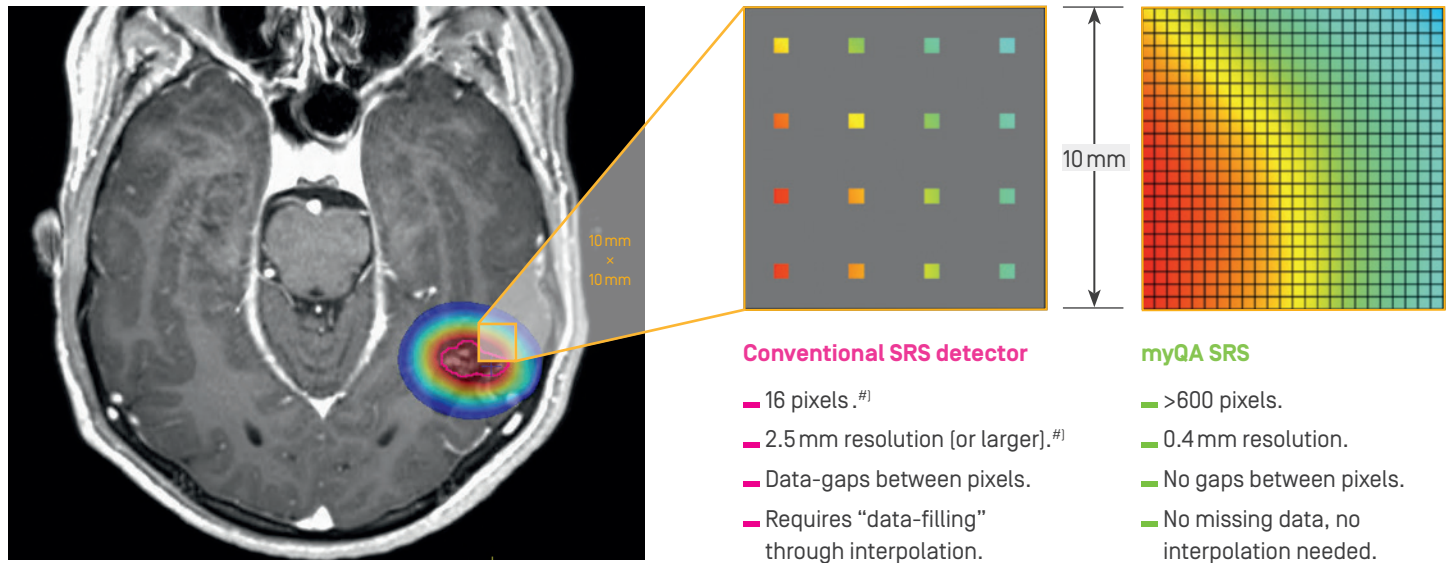


### Your Solution for SRS & SBRT: myQA® SRS

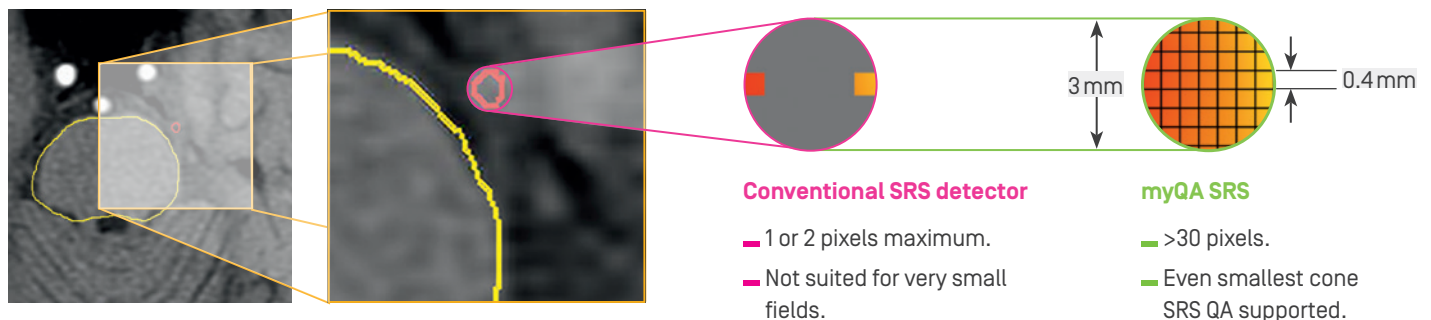
- Real measurement of the complete delivered dose.
- No dose gaps, no need to interpolate.

# Clinical Examples – SRS cases with steep dose gradients

## SRS brain lesion



## Trigeminal Neuralgia 3 mm Cone SRS



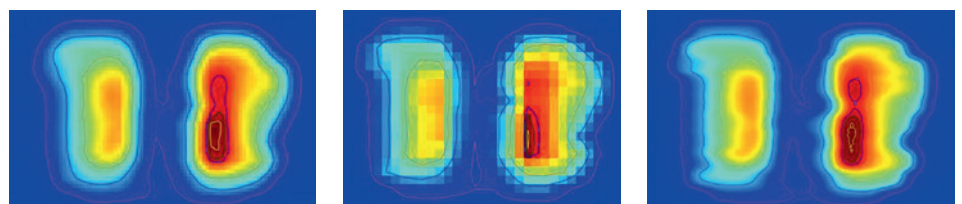
### The Significance of Resolution

“... detector resolution is of main importance to avoid getting false positive [QA results].”

A. Bruschi et al.: Detector resolution affects the clinical significance of SBRT QA.



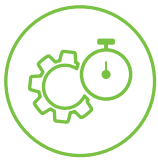
### Avoid false QA results, make better QA decisions.



**Figure: Reconstructed Dose**

- Avoid pixelized results of poor-resolution detectors.
- Avoid falsely failing QA results caused by low resolution.
- myQA SRS provides superior gradient and peak detection.
- High-quality gamma verification results for better QA decisions.

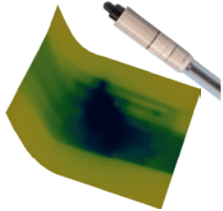
#) depends on detector setup and type



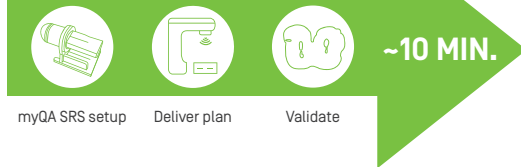
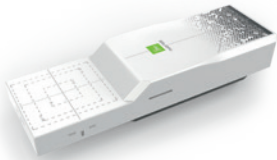
# When Throughput matters, QA Time matters!

## myQA® SRS – save hours of QA physics time!

### Typical Film Dosimetry



### Filmless QA with myQA SRS

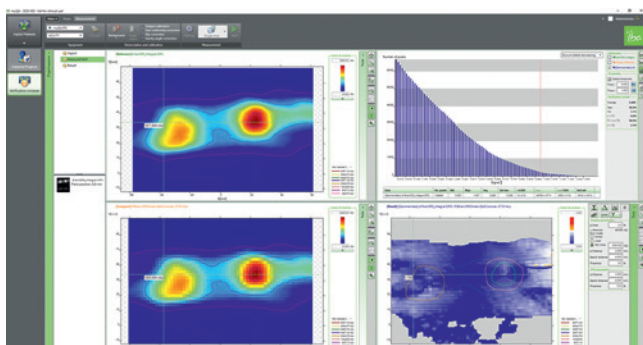


- ① Measure absolute dose, compare to TPS
- ② Film handling
- ③ Film cutting & cleaning
- ④ Deliver plan
- ⑤ Setup new film for next case
- ⑥ Film development 2+ hours
- ⑦ Scan film, convert to dose
- ⑧ Validate planned vs. delivered dose



### 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.
- Multiple PTV and plan QA measurements with one single detector setup, no need to return to the Linac to change film etc.
- Avoid “false results” as reported with conventional detectors, and save time by avoiding remeasuring and searching for source of errors.



### Software Workflow Efficiency – myQA Patients

Smart software reduces typical SRS validation times:

- Automated beam triggered measurements.
- Automatic location of the isocenter.
- Automated alignment.
- Field by Field measurement mode.
- Easy benchmarking to film QA in myQA Patients.



# Peace of Mind in SRS/SBRT

## The complete Radiosurgery Patient QA Solution



QA of rotational cases and multiple couch angles supported.



### The myQA SRS Phantom

- For verification of single beams and for composite SRS plans using the myQA SRS detector.
- Cylindrical shape with cap for non-coplanar arc delivery.\*\*
- Easy setup on the couch through lightweight design and laser alignment markers.
- Including dedicated inserts for film and for small field dosimetry chambers.
- Film insert for benchmarking and for your seamless transition from film-based QA to myQA SRS QA.
- Advanced tissue-equivalent phantom material.

### The Gantry Sensor+

- Accuracy for rotational cases.
- Precise measurements of your Linac rotation angles corresponding to your detector measurement.
- Easy setup without cables (wireless data exchange).

### All Stereotactic Systems Supported<sup>1</sup>

- All standard and stereotactic C-arm Linacs
- MLC and cone-based SRS systems
- Varian® Ethos™ / Halcyon™\*\*
- CyberKnife® MLC, Iris or Cones\*\*
- TomoTherapy® / Radixact®\*\*
- BrainLAB Novalis®



myQA SRS supports QA of stereotactic cones. Image courtesy of Aktina Medical.<sup>1</sup>

**Treat more SRS/SBRT patients safely  
and with the confidence it's done right.**

\*\*Validation testing is a work in progress. myQA SRS might not be available for sale for certain systems.

## Specifications

myQA® SRS Detector Array	
Field Size/Active measurement area [cm]	12 × 14
Number of detectors	105,000
Resolution [center-center distance] [mm]	0.4
Detector/sensor type	CMOS
Detector size [mm]	0.4 × 0.4
Array dimensions [cm]	48 × 15.4 × 10.4
Array weight [kg]	~4.5
Supported energies	FF-FFF
Power	cable
Data transfer	Ethernet

myQA® SRS Phantom	
Outer dimensions [cm]	59 × 29.7 × 45.2
Weight [without inserts, kg]	14.7
Material	ABS

myQA® Software	
<b>Supported operating systems:</b>	Windows 10, 64-bit, US English
<b>Supported SQL Servers*:</b>	SQL Server® 2016 SP2 or higher
<b>Minimum hardware requirements [or equivalent virtual runtime environments]:</b>	<ul style="list-style-type: none"> <li>• Processor: Intel Core i5 desktop or mobile processor or better.</li> <li>• Graphics card: DirectX 9c compatible, 256 MB Video RAM, no shared memory.</li> <li>• 16GB RAM required.</li> <li>• Ethernet minimum 10Mbit/s.</li> <li>• Ethernet [RJ-45] plug to connect controllers and other measurement devices.</li> </ul>
<b>Supported screen resolutions and optimal DPI settings:</b>	<ul style="list-style-type: none"> <li>• 1920 x 1080 [FHD] with 100% or 125%</li> <li>• 2560 x 1600 with 200%</li> <li>• 3840 x 2160 [QHD = 4K] with 250%</li> </ul>
<b>Supported virtual runtime environments:</b>	<ul style="list-style-type: none"> <li>• Full desktop virtualizations simulating the above requirements, e.g.</li> <li>• VMware ESXi</li> <li>• Oracle VirtualBox</li> <li>• Microsoft Hyper-V</li> <li>• XenDesktop 7.15.2000.291 [Windows 10 64-bit, 1 user]</li> </ul>

## More solutions that shape the future of your Patient QA

**NEW:** Need high resolution for your **IMRT & VMAT Patient QA?**

Discover the new **MatriXX RESOLUTION™**



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