

# New Products 2021





ptwveriqa.com

# VERIQA\* - The Modular Software Platform

For comprehensive Patient QA

Patient QA  
modular OCTAVIUS 4D  
efficient Track-it confident Log files  
SciMoCa EPID  
proven **VERIQA** Monte Carlo  
workflow orientated simplified documentation  
In-vivo Dosimetry full automatization  
Secondary Dose Check  
PTW quality

## Your advantages

- ▶ One platform: From visualization and evaluation to verification and reporting. All in one modular platform, built on future-proof client-server architecture.
- ▶ Take your workflow efficiency to a next level and automate your processes.
- ▶ Track and analyse your results with the automated integration of Track-it.
- ▶ Clinically proven, independent 3D dose verification tools and calculation algorithms for reliable results, independent of treatment complexity



## VERIQA RT MonteCarlo 3D

3D dose calculation with SciMoCa. Accurate. Fast. Automated.

“ For us VERIQA is an easy to handle, very useful and helpful software tool for secondary dose calculation. ”

Rodrigo Lope Lope, Medical Physicist, Hospital Universitario Araba, Vitoria-Gasteiz

“ VERIQA is extremely suitable, dynamic and efficient. It offers an excellent solution for independent plan verification, with a high-quality dose calculation. We believe it is important to establish appropriate tolerance and action levels for the use of VERIQA. ”

Dr. Vicente Carmona , Medical Physicist, Hospital Universitari i Politècnic La Fe, Valencia



Scan this QR code and get more information about VERIQA RT MonteCarlo 3D. Also explore a [workflow demo](#) video and many features of that new software platform.

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As flexible as your needs.

The new modular phantom platform  
for high-precision radiotherapy and  
**SRS/SBRT QA.**



## RUBY - The Modular QA Phantom

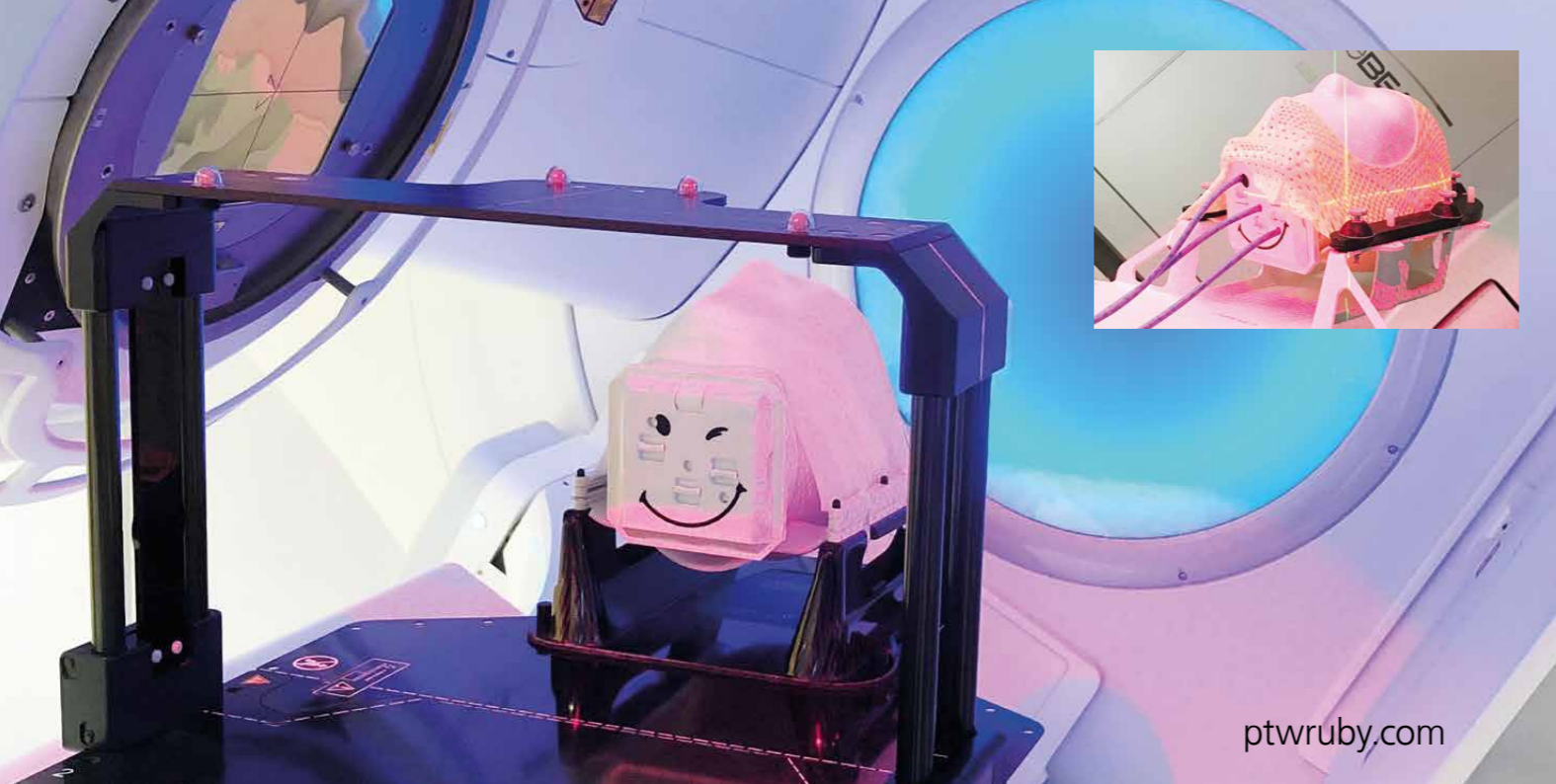
One Phantom. Multiple Inserts. System QA. Linac QA. Patient QA.



The new insert for multiple  
metastases applications

### Your advantages

- ▶ Perform integrated tests of the entire treatment chain with one basic phantom by adding and expanding QA capabilities as and when you need them
- ▶ Technologically advanced, new modular phantom platform with powerful, ready-to-use application-specific inserts
- ▶ Comprehensive end-to-end testing of the entire SRS/SBRT treatment process with one single insert
- ▶ Measurement-based patient-specific plan verification, including non-coplanar treatments, with film and different detector types
- ▶ CT markers in phantom and all inserts for enhanced visibility



ptwruby.com

## Multiple Metastases Applications

RUBY Head Phantom with System QA MultiMet insert



### Your advantages

- ▶ Systematic QA of multi metastases treatment techniques with single isocenter
- ▶ Three detectors at different positions can be positioned within the insert
- ▶ Modular system - RUBY head phantom is compatible with all RUBY inserts
- ▶ For couch extensions equipped with head shells - mask system compatible



Scan this QR code and get more information about applications for the RUBY phantom in high-precision radiotherapy.





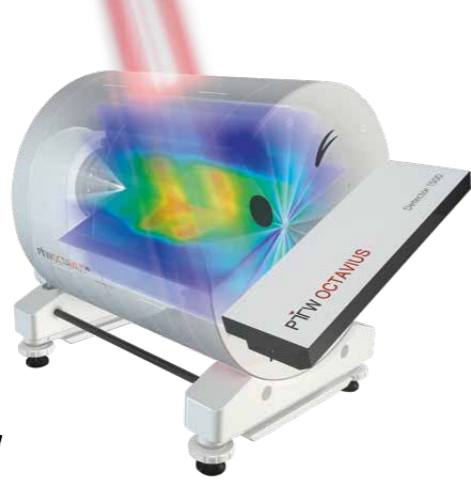
SRS/SBRT tops



Standard phantom top



Top for Machine-QA



TPS independent 3D dose

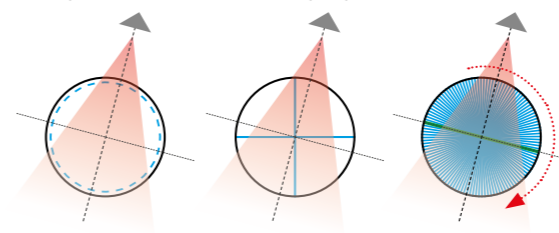


Detector modularity.  
Three different detectors  
from simple applications  
to stereotactic brain  
procedures.

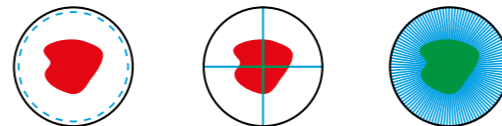
# OCTAVIUS<sup>4D</sup>

One phantom - modular solutions for 4D patient and machine QA

Transparent measurements perpendicular to the beam



Full coverage of clinically relevant regions

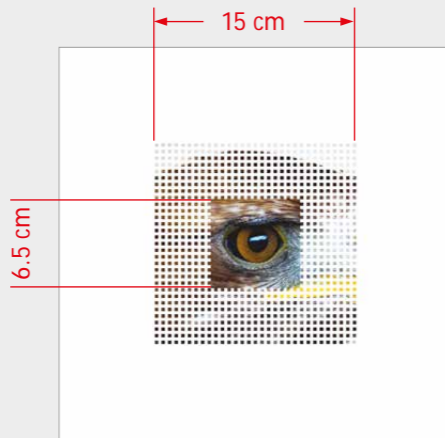


### Your advantages

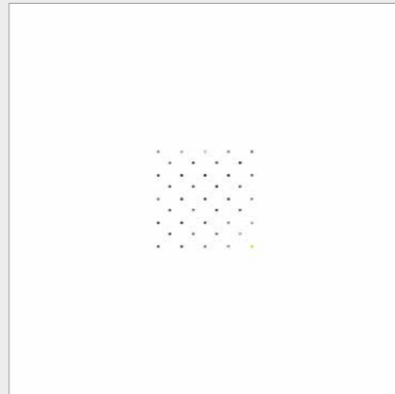
- ▶ Time dependent and angular dependent dose measurement
- ▶ Synchronous phantom rotation with the linac gantry
- ▶ Detector array always perpendicular to the beam - no angular dependence
- ▶ Only 4D dose verification system that measures dose in the entire phantom volume
- ▶ Verification of treatments including non-coplanar beams, off-axis target volumes, large fields and treatment plans with multiple energies



Original picture



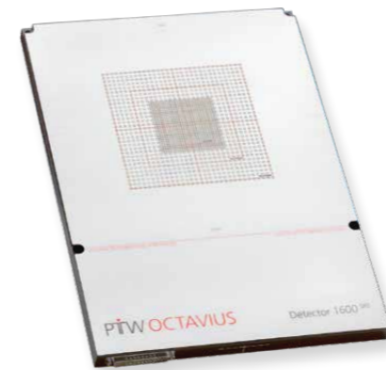
OCTAVIUS Detector 1600 SRS



Diode detector

## OCTAVIUS® Detector 1600 SRS

Detector array for patient plan verification and quality control of SRS applications



### Your advantages

- ▶ The only system for true 3D SRS/SBRT plan verification available on the market
- ▶ Best available field coverage for SRS applications with a field size of 1 x 1 cm<sup>2</sup> to 15 x 15 cm<sup>2</sup>
- ▶ 1521 liquid-filled ionization chambers guarantee a long lifetime and stable measurements
- ▶ Filmless patient plan verification and machine-specific QA
- ▶ Suitable for QA of IMRT, VMAT and SRS/SBRT with OCTAVIUS 4D – independent from TPS
- ▶ Verification of single isocenter SRS for multiple brain metastases
- ▶ Active volume 2.5 x 2.5 x 0.5 mm<sup>3</sup> and detector spacing center area: 2.5mm



## UNIDOS® Tango

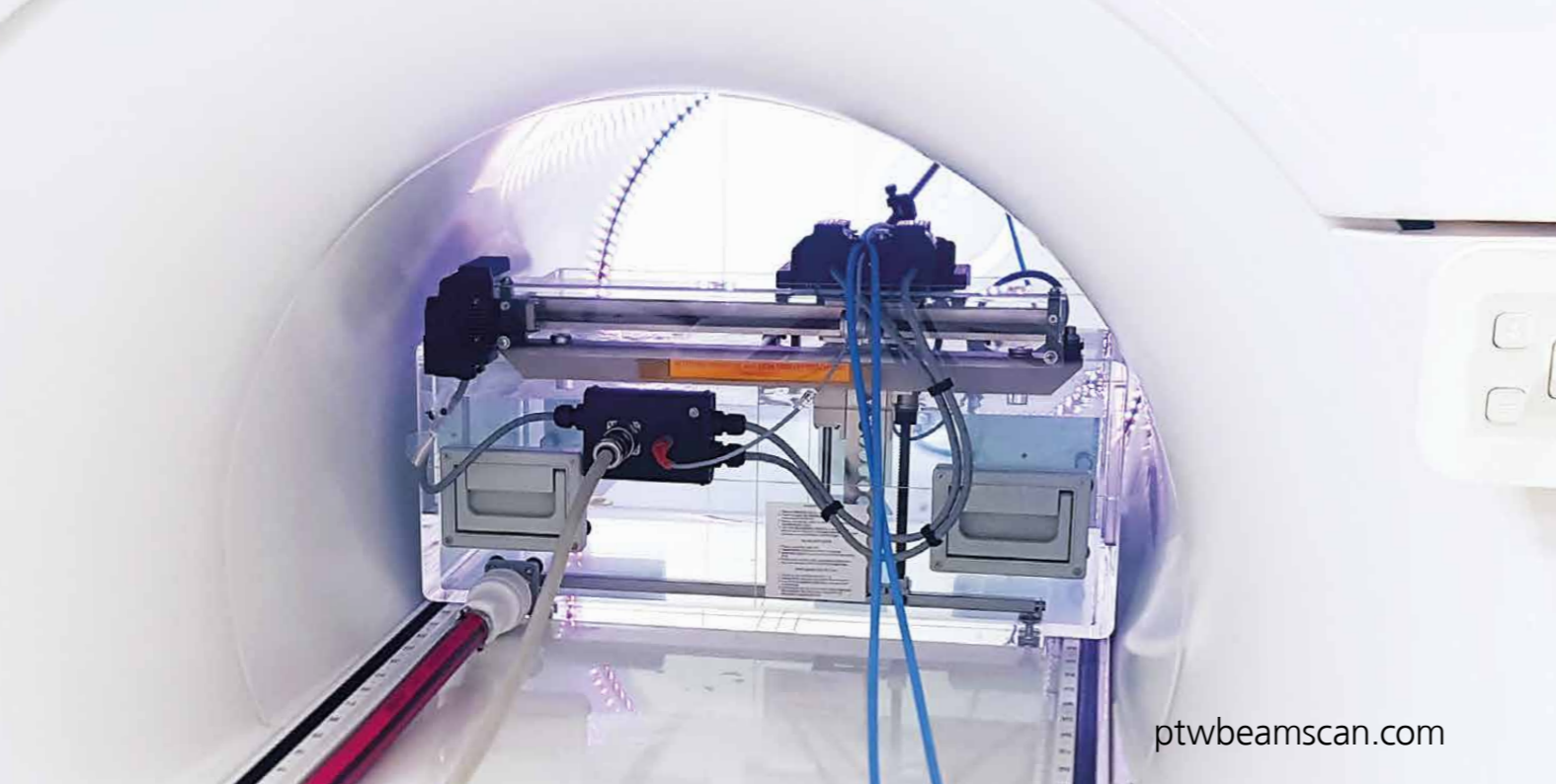
Reference class electrometer exceeding IEC 60731 and IPEM standards



### Your advantages

- ▶ Perform reliable measurements with highest precision and accuracy
- ▶ Automated detector management with Intelligent Detector Recognition (IDR)
- ▶ Control UNIDOS Tango via smart device or PC (WLAN and LAN)
- ▶ Create individual and password protected profiles for improved measurement consistency
- ▶ Capacitive touchscreen with excellent readability from any viewing angle
- ▶ Intuitive, multi-lingual GUI with high usability





ptwbeamscan.com

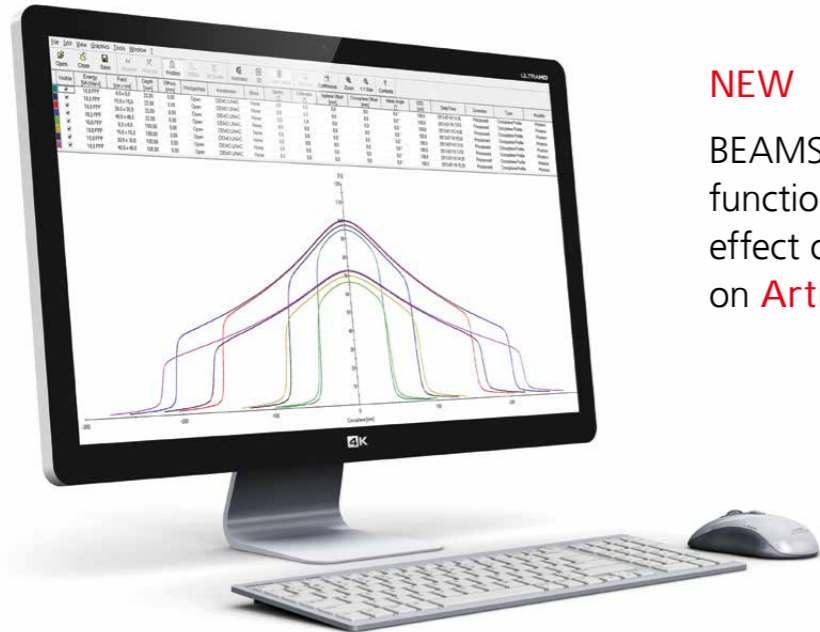
## BEAMSCAN® MR - more than 30 installations worldwide

First motorized 3D water phantom suitable for clinical use in up to 1.5 T MR environment



### Your advantages

- ▶ Complete solution for commissioning and QA of MR-Linacs: From beam data acquisition, processing and analysis to protocol-based documentation
- ▶ All-in-one, ready to use system with comfortable touch panel for fast setup – incredibly versatile and straightforward in its operation
- ▶ Reference-class Semiflex 3D ionization chambers for precise dose measurements in small and standard fields up to 40x40 cm
- ▶ Two models with vendor-specific water tanks for optimized scanning ranges for Elekta Unity and ViewRay® MRIdian®
- ▶ Auto alignment - no lasers or light field needed



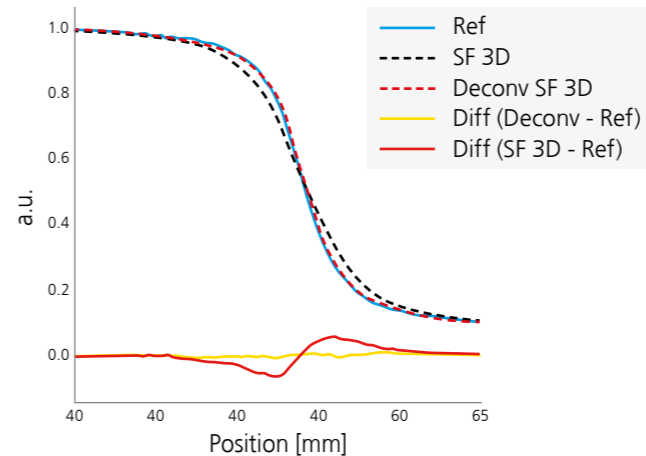
## NEW

BEAMSCAN Software 4.5 offers a function to compensate the volume effect of ionization chambers<sup>1</sup> based on **Artificial Intelligence**.

<sup>1</sup> Available for Semiflex 3D.

## NEW: BEAMSCAN® Software 4.5

Introducing Artificial Intelligence in dosimetry



Compensation of the volume effect

### Your advantages

- ▶ **Data processing based on Artificial Intelligence**
  - Compensation of the volume effect for transversal profiles of photon beams (deconvolution)
  - Denoising<sup>2</sup> of photon and electron PDDs and transversal profiles
- ▶ **Advanced analysis features**
  - Real time beam data analysis
  - Smart comparison of multiple scans
  - Support of Elekta 2020 Customer Acceptance Test Protocol
  - Task 'Output Factors' for Beamscan MR

<sup>2</sup> For data measured with microDiamond.



ptwdosimetry.com

## microSilicon X

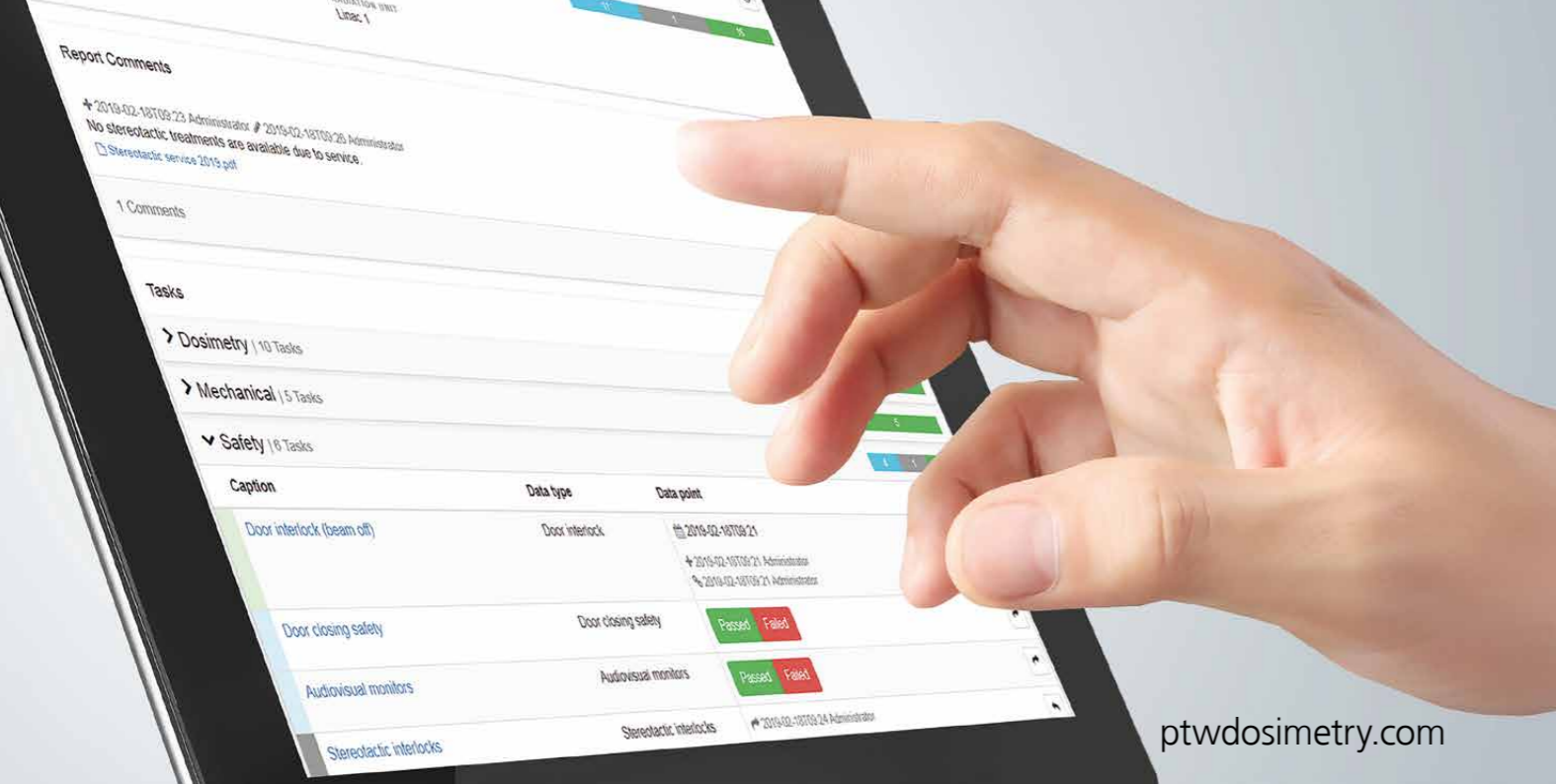
The shielded silicon detector for all photon fields



Scan this QR code and see the PTW detector selector to find the best detector for your applications.

### Your advantages

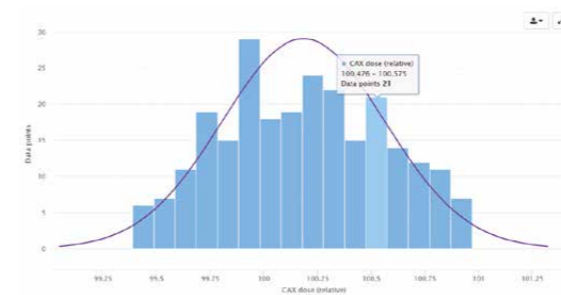
- ▶ Shielded diode perfectly suited for photon field sizes up to 40 x 40 cm<sup>2</sup>
- ▶ The shielding reduces the low energy scattered radiation amount in the detector signal
- ▶ Outstanding spatial resolution for precise beam profile measurements
- ▶ Excellent dose stability (@6 MV  $\leq$  0.1 %/kGy)
- ▶ Low dose per pulse dependence
- ▶ Improved water equivalence
- ▶ Very low sensitivity variation with temperature



ptwdosimetry.com

## Track-it QA Data Management Software

New version 3.0 including statistical evaluation with box plots and histograms.



### Your advantages

- ▶ User-defined protocol templates to customize the application to the specific needs of your QA workflows
- ▶ Web based application using desktop or mobile devices
- ▶ Online or offline QA report generation, e.g. in vaults without wireless network
- ▶ Compliance with DIN 6847-5/-6, 6875-4 and TG-142 through predefined templates
- ▶ Traceability - recording of all main steps in the workflows, such as data entry, modification and linking to reports
- ▶ Trend analysis over time and across your treatment devices with versatile display options
- ▶ Efficiently manage all QA data on one single platform



See how Marienhospital Düsseldorf uses Track-it to optimize their QA procedures.





## Dosimetry and QA Solutions for ZAP-X<sup>®</sup> Radiosurgery System

Tested and clinically proven by ZAP-X<sup>®</sup> users



Scan this QR code and see an overview of PTW products for ZAP-X<sup>®</sup>.

- ▶ MP3-XS for ZAP-X<sup>®</sup>  
Dedicated 3D water phantom system with 20 x 20 x 30 cm scanning range - complete, ready-to-use solution, including scanning and reference detectors
- ▶ UNIDOS Tango  
Award-winning, high-precision reference class electrometer
- ▶ RUBY Head Phantom Set MultiMet  
Fast daily QA check integrating the imaging workflow as well as systematic end-to-end testing
- ▶ OCTAVIUS Detector 1600 SRS for ZAP-X<sup>®</sup>  
Dedicated, high-resolution liquid-filled ionization chamber array for multiple-met SRS treatment plan verification and beam profile measurements



my Products

FAQs &amp; Events

## Newsboard

2021-05-10

PTW wins iF Design Award 2021



2021-05-05

Webinar in German Language: QRM - Phantome für die diagnostische Bildgebung und Ihr Partner für Sonderanfertigungen



2021-04-29

"Michael D. Mills Editor in Chief Award of Excellence" for Dr. Daniela Poppinga



2021-03-15

New firmware update 1.2.0 UNIDOS Tango &amp; Romeo available

[myptw.ptwdosimetry.com](https://myptw.ptwdosimetry.com)

## NEW: MyPTW - The new PTW Customer Portal

Enrich your PTW service experience



Scan this QR code to join your myPTW customer portal or use the link: [myptw.ptwdosimetry.com](https://myptw.ptwdosimetry.com)

### Your advantages

- ▶ Manage all your PTW hardware and software products in one place
- ▶ Access all your calibration certificates and manuals
- ▶ Submit service and support requests very easily
- ▶ Benefit from exclusive product information, podcasts and tutorials
- ▶ Find your local contacts
- ▶ Manage your own team access for myPTW



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D259.139.01/02 2021-06

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