Proton Therapy PBS Dosimetry
Complete Dedicated Solution for Treatment Accuracy, Safety and Throughput

Treatment Accuracy & Safety  
Quality Assurance for Proton Therapy / PBS

Your Complete QA Portfolio for Complete Treatment Safety

Pencil Beam Scanning (PBS) represents the latest in Proton Therapy (PT) beam delivery technology, introducing new requirements in Quality Assurance (QA). IBA Dosimetry’s expertise in PT ensures you the full solution range tailored to fit any need in PBS: from Commissioning to Machine QA to Patient Plan Verification.

Unique Solutions, Unique Advantages!

✔ Minimize QA times – maximize patient throughput
✔ Uncompromised accuracy for safe PT and PBS treatments
✔ Integration to your workflow needs

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<td>More Machine QA Tools for Consistency Checks&lt;br&gt;➤ Zebra, Giraffe&lt;br&gt;➤ Lynx&lt;br&gt;➤ Ion chambers / build-up plates</td>
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Key Benefits:

- Faster PT commissioning – significantly earlier patient treatments
- The unique large scanning diameter minimizes data loss in PBS scanning, thus dramatically reducing the effort typically spent to correct scan data prior to TPS import
- More accurate commissioning and patient treatments
- StingRay maximizes the accuracy of your scan data for higher treatment plan accuracy

Technical Highlights:

➤ 12 cm large electrode for un-scanned (spot beam) delivery
➤ High spatial resolution: 180 chambers with 2 mm pitch
➤ Proton beam energies measurements up to 230 MeV

StingRay mounted in Blue Phantom²: A flexible holder enables easy vertical and horizontal alignments

StingRay with largest active scan diameter of 120 mm

Integral Large Chamber for PBS Commissioning
Largest Available Chamber Size

PBS depth profile analysis using powerful OmniPro-Accept 7.4 software

Instantaneous extraction of the Bragg Peak beam parameters during system QA consistency checks using automated proton analysis software tools

Higher Accuracy in PBS Commissioning Machine QA
Large Diameter Multi Layer Ionization Chamber

Key Benefits:

- Instant daily PBS verification within one second
- Check your complete Bragg Peak depth dose curve distributions for single beam spot delivery
- Minimize loss of data collection
- Safe time with reduced effort to correct data at TPS level

Technical Highlights:

➤ 12 cm large electrode for un-scanned (spot beam) delivery
➤ High spatial resolution: 180 chambers with 2 mm pitch
➤ Proton beam energies measurements up to 230 MeV

Dedicated Solutions for PBS

Fastest – Most Accurate – Most Reliable Dosimetry.
Proton Therapy PBS Dosimetry

Treatment Accuracy and Safety – Your Peace of Mind

Minimized QA Times – Maximized Patient Throughput

QA and dosimetry time saving varies depending on QA protocols and applied dosimetry tools. Please consult IBA Dosimetry for details.

www.iba-dosimetry.com