

Intelligence and focus

Smartly designed measurement tools are your basis for efficient linac QA. IBA Dosimetry offers a wide range of dedicated solutions to make your routine QA the fastest, most accurate, and most reliable.



Your natural selection

Designed to integrate seamlessly with my QA Machines

- ✓ Protocol based machine QA (including TG-142 and other protocols)
- ✓ Generic tests and customizable protocols
- ✓ Full coverage of tests with a flexible scheduling tool to manage your tasks, resources, and time
- ✓ Comprehensive analysis, archiving, and reporting tools
- ✓ Interface to myQA Cockpit for quick and easy access to all QA results and trends

All results can be exported to reports, saved in the



benchmarked in the



and are displayed in the





Star Track: Linac Dosimetry

Your Universal QA Solution

- ✓ All main tests in one shot: dose, profiles, diagonals energy verification, etc.
- √ 453 air-vented ionization chambers with optimized geometry for Machine QA
- ✓ Convenient beam constancy verification in one single shot using specific build-up plates
- ✓ Automatic k(t,p) correction
- ✓ Parallel readout from independent electrometers
- ✓ Instant results and real-time analysis using the Dosimetry Plug-in for myQA Machines
- ✓ Patented energy verification method
- √ Tabletop or gantry mount (optional)

For more information please refer to the IBA white papers 'Tg-142_Dosimetry' and 'Tg-142_Daily Generic Tests'







MatriXX Family

Connect your MatriXX to myQA Machines for fast and accurate Linac Machine QA.



Technical Specifications

Energy Range

Photons: Co60, 4 MV-18 MV, flattened and FFF beams. Electrons: 6 MeV-21 MeV.

Dose Linearity

0.5% from 10 cGy to 5 Gy integral dose. 0.5% from 0.1 Gy/min up to 4 Gy/min dose rate.

k(t,p) Correction

Temperature (10-40 °C), pressure (70-110 kPa).

Sensor Layout

Chamber arrays organized along main axes and diagonals, 8 additional chambers for energy constancy check.

Spatial Resolution

5mm for horizontal and vertical lines. 7mm for diagonals.

Chamber Type

Vented pixel ionization chambers.

Chamber Size

Cylindrical, 3 (O) x 5 (h) mm, sensitive volume 0.035 cm^3 .

Typical Sensitivity

1.1 nC/Gy (Co60).

Electrometer

8 TERA ASICs (each contains 64 independent electrometers).

Sampling Time min. 10 ms.

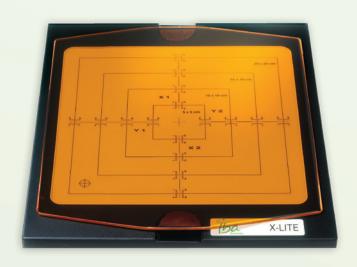
Readout

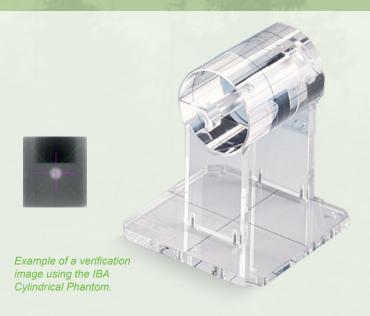
Parallel and synchronous readout with no dead time.

X-LITE

Light Field Alignment Checks

- √ Fast and precise check of the radiation and light fields without film or additional hardware
- ✓ Easy setup against the light field
- ✓ Fluorescent plate visualizes your radiation field right after the irradiation without additional processing
- ✓ Field scales marked for 5x5, 10x10, 15x15, and 20x20 cm²





Cylindrical Phantom

Dose constancy and isocenter check

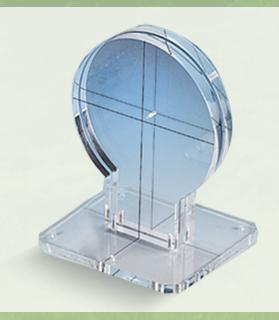
- √ Verify the mechanical stability of gantry/ imager position (CBCT/ EPID) with a small steel ball insert (Winston Lutz Test)
- ✓ Measurement of dose constancy in various gantry angles and in rotational beams
- ✓ Adaptors available for most common ion chambers

For more information please refer to the IBA white paper 'Tg-142_Daily Generic Tests' and 'Winston Lutz & Star Shot Test'

Disk Phantom

Isocenter Verification with Film

- ✓ Easy and precise method of verifying isocenter accuracy (e.g. for stereotactic applications, star-shot)
- √ Isocenter is determined by an appendant marker

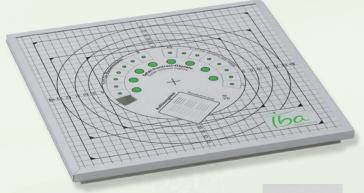


Primus L Test Plate

kV/MV planar image QA

- ✓ Easy image QA of your IGRT imaging systems or flat-panel imager (EPID)
- √ Verify complete contrast determination, special resolution, scaling discrepancy, uniformity and positioning offsets
- ✓ Automatic image analysis using the EPID QA Plug-in for myQA Machines

For more information please refer to the IBA white paper 'Tg-142 Planar-Imaging-kV-MV'



kV image of Primus L automatically analyzed in myQA Machines highlighting passed, warning and failed test status.





MagicMaX

Imaging-Dose Multimeter

- √ Fast, simple, and accurate beam analysis and dosimetry for your CBCT, OBI, and CT-Sim
- ✓ In a single exposure, evaluate your kV beam and imaging dose or flat-panel imager (with the Primus L Test Plate)
- ✓ Ideally suited for Varian OBI, Elekta or CyberKnife

Additional Hardware

- ✓ Gantry holders for MatriXX and StarTrack
- √ Full set of chambers and diodes
- √ Reference class electrometers
- ✓ Plastic slabs Phantoms and chamber inserts
- √ Round CT and RTPS Phantom



Fast and easy Machine QA implementation

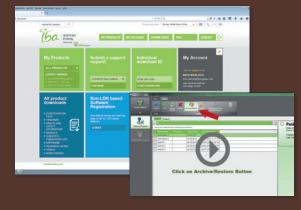
White Papers

- ✓ Learn various applications step-by-step
- ✓ Efficient use of myQA
 Machines, detectors,
 and phantoms



NEW Support Portal

- ✓ Training videos
- ✓ Papers and publications
- ✓ Manuals & technical notes
- ✓ Software updates



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