

# IQM

Integral Quality Monitor



Technology



From the very beginning we aimed to create a product that combines advanced technical functionality with a beautiful design and ultimate quality.

Every manufacturing step is based on the required functionality, optimized for highest quality and finish.

The IQM case is milled out of a solid block of aluminum for ultimate stability and torsional stiffness while maintaining light weight and ease of use.

The IQM case cover is made of carbon fiber to minimize beam attenuation while maintaining a distraction free treatment environment for the patient.

The hole perforation design in the front in combination with the line perforation design in the back maintain optimal air ventilation, while allowing unobstructed placement of environment probes and communication antennas.

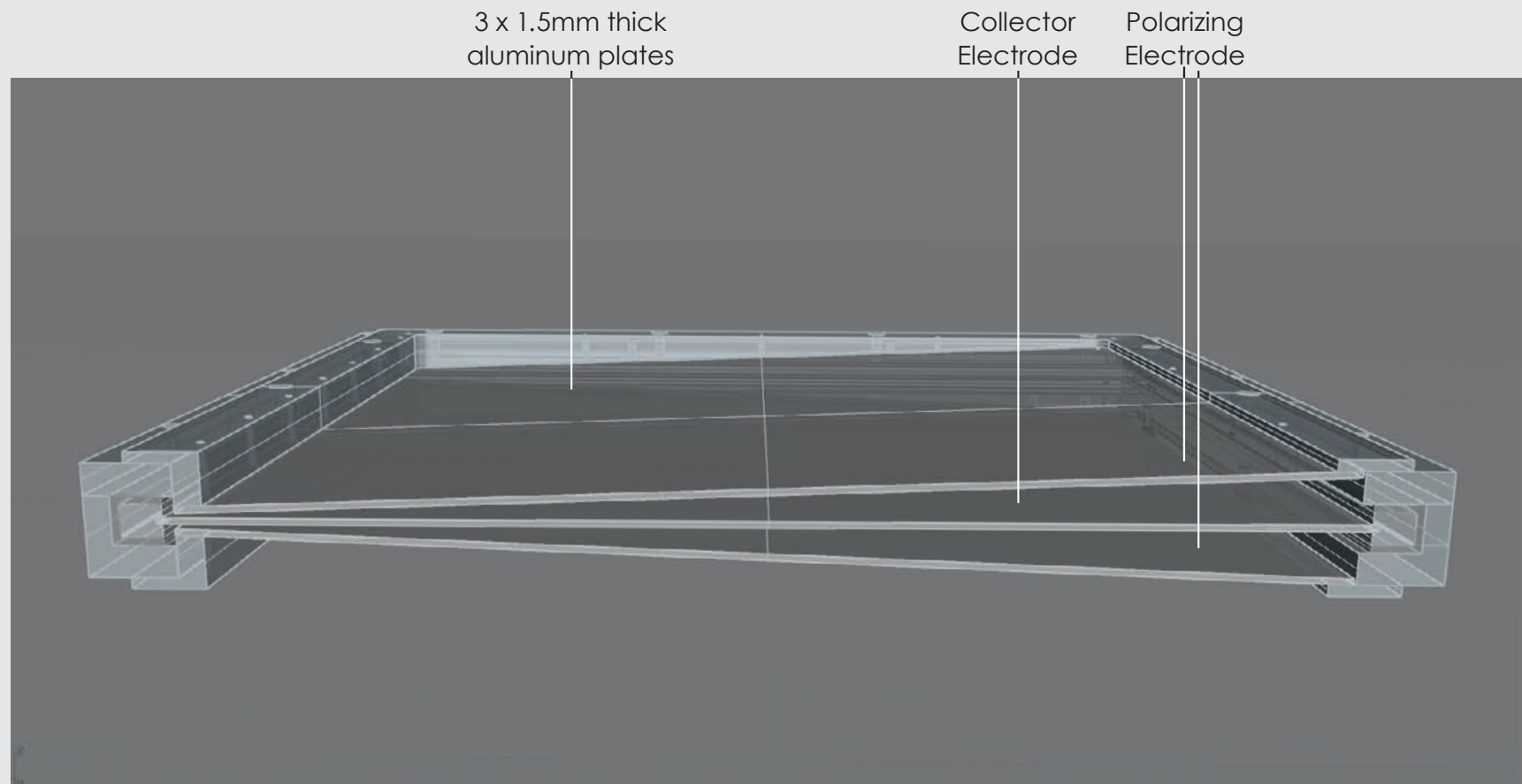
Every manufacturing step is closely controlled and monitored to provide a medical device that combines advanced functionality with a beautiful design and ultimate quality.

The IQM is completely Made in Germany.

# A true innovation

IQM combines the highest reproducibility and stability with an unmatched spatial resolution and sensitivity for any treatment beam related changes.

From the smallest possible stereotactic field size up to the largest possible photon beam, from the smallest clinical dose rate up to the highest dose rate of a modern FFF beam, from the simplest palliative treatments up to the most complex multi-Arc beam arrangements: IQM fully automatically verifies everything all the time with unmatched precision.

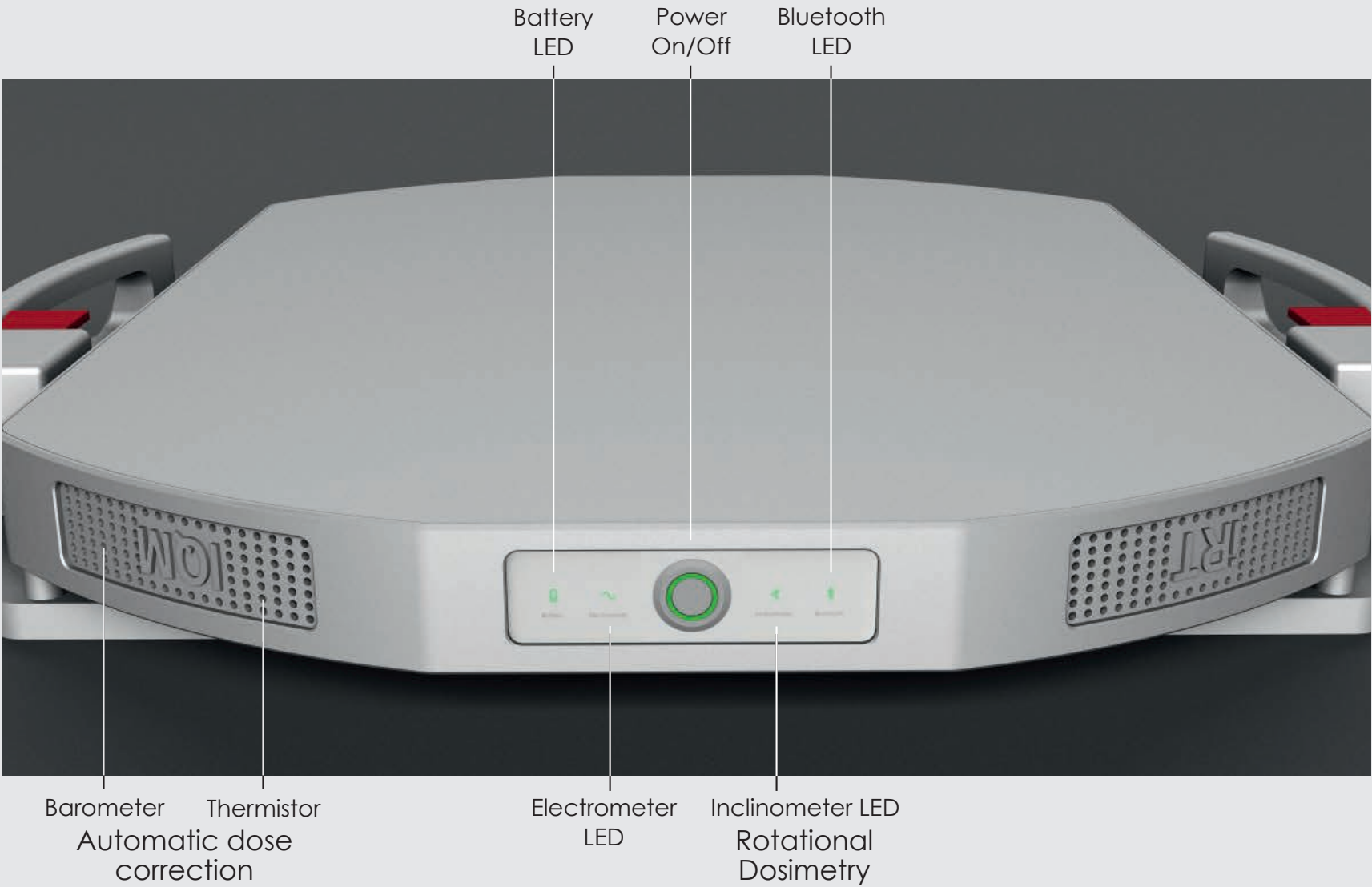


Detects a beam placement error of  
1mm for a 3cm x 3cm field.\*

Detects a single leaf deviation of  
2mm in a 3cm x 3cm field.\*

„May vary depending on type of Linear Accelerator“

Type of Detector Air-vented large area ion chamber with gradient response	Ion Chamber active size: 26.5cm x 26.5cm	Max. Field Size 40cm x 40cm	Dose Range 1 deciMU x cm <sup>2</sup> to unlimited	Reproducibility < +/-0.5%	Polling repetition rate 250 ms
--	--	--------------------------------	--	------------------------------	-----------------------------------

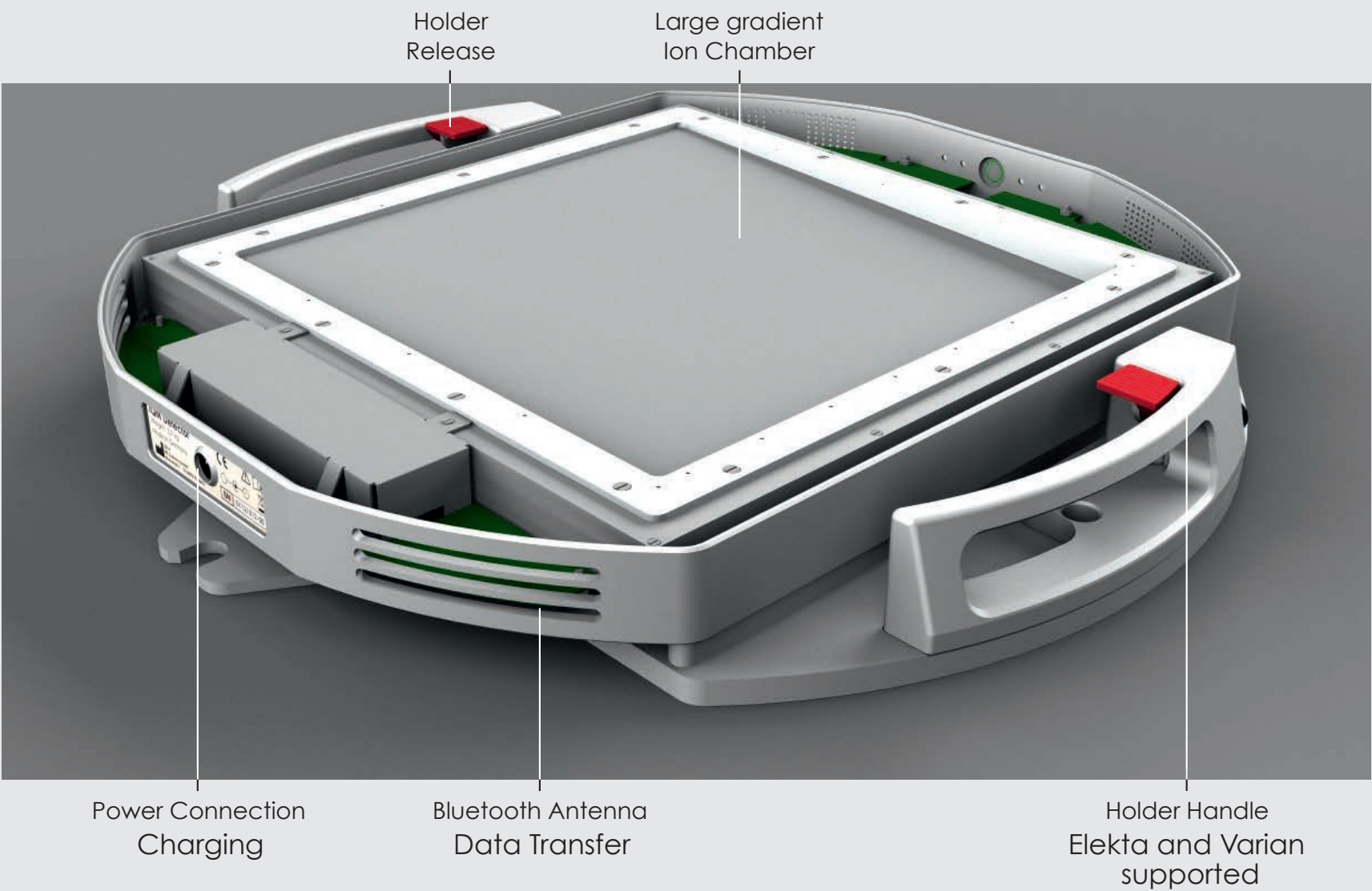


Angle Resolution +/-1°	Dimensions (wxdxh) 45cm x 35cm x 3.5cm	Dimensions (wxdxh) 17.7" x 13.8" x 1.37"	Weight 4.3kg 9,47lb	Battery runtime >30 hours
---------------------------	---	---	---------------------------	------------------------------

The beauty of simplicity



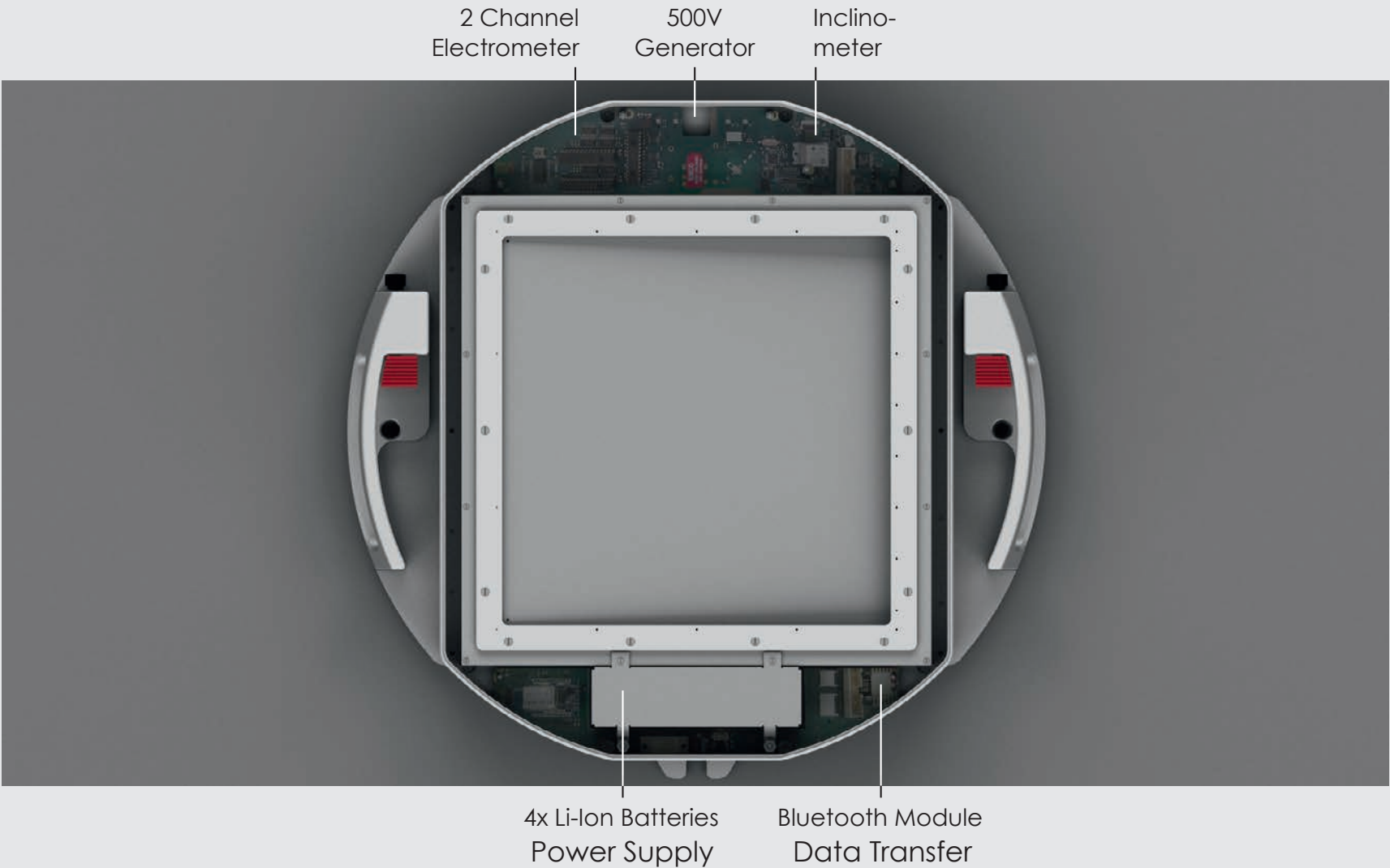
Type of Detector Air-vented large area ion chamber with gradient response	Ion Chamber active size: 26.5cm x 26.5cm	Max. Field Size 40cm x 40cm	Dose Range 1decimU x cm <sup>2</sup> to unlimited	Reproducibility < +/-0.5%	Polling repetition rate 250 ms
--	--	--------------------------------	---	------------------------------	-----------------------------------



The unique patented detector design offers continuous spatial resolution.

Angle Resolution +/-1°	Dimensions (wxdxh) 45cm x 35cm x 3.5cm	Dimensions (wxdxh) 17.7" x 13.8" x 1.37"	Weight 4.3kg 9,47lb	Battery runtime >30 hours
---------------------------	---	---	---------------------------	------------------------------

Type of Detector Air-vented large area ion chamber with gradient response	Ion Chamber active size: 26.5cm x 26.5cm	Max. Field Size 40cm x 40cm	Dose Range 1 deciMU x cm <sup>2</sup> to unlimited	Reproducibility < +/-0.5%	Polling repetition rate 250 ms
--	--	--------------------------------	--	------------------------------	-----------------------------------



For any photon energy including flattening filter free

Angle Resolution +/-1°	Dimensions (wxdxh) 45cm x 35cm x 3.5cm	Dimensions (wxdxh) 17.7" x 13.8" x 1.37"	Weight 4.3kg 9,47lb	Battery runtime >30 hours
---------------------------	---	---	---------------------------	------------------------------

# See IQM in action

Contact us at [info@i-rt.de](mailto:info@i-rt.de)

or

Call us at +49 261 915450

More information is always available at [www.i-rt.de](http://www.i-rt.de)



## iRT Systems GmbH

Blumenstrasse 1 · 56070 Koblenz · Germany