

# 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.

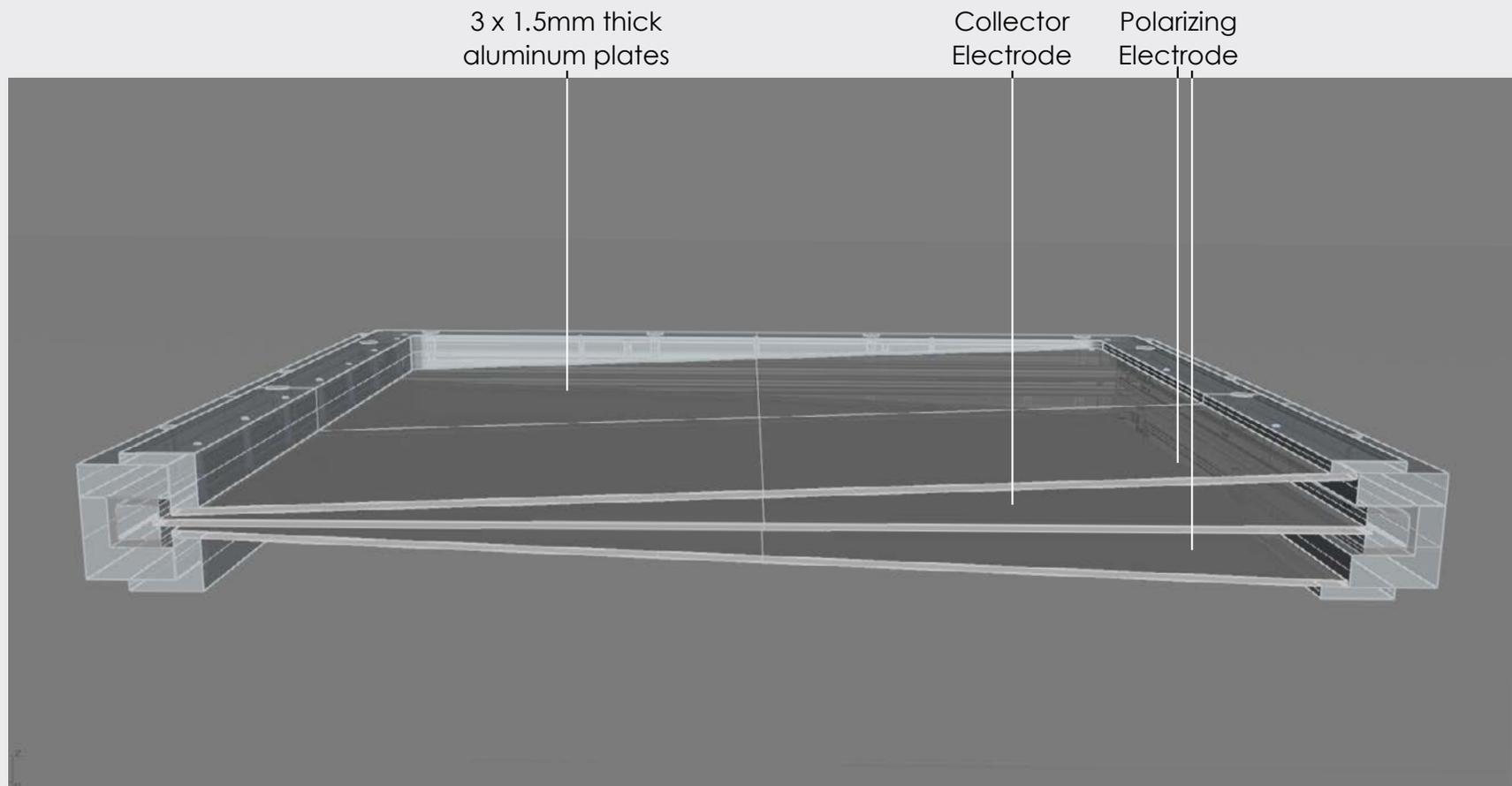
Every manufacturing step is closely controlled and monitored to provide a medical device that combines advanced functionality with a beautiful design and ultimate quality.

The IQM is completely Made in Germany.

# A true innovation

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

From small stereotactic field sizes 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 simple 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

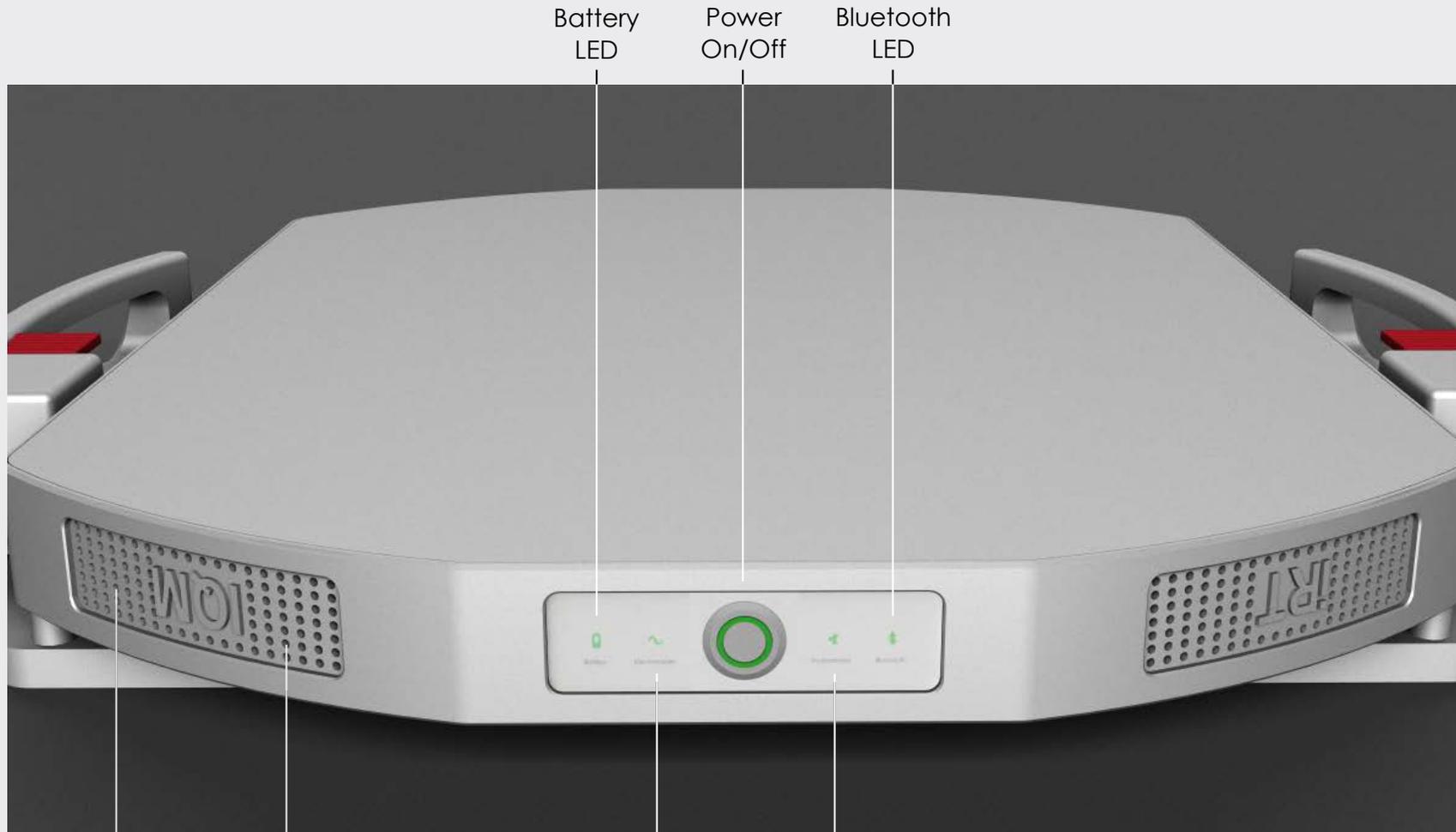
Ion Chamber  
active size:  
26.5cm x 26.5cm

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



Barometer  
Thermistor  
Automatic dose  
correction

Electrometer  
LED  
Inclinometer LED  
Rotational  
Dosimetry

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

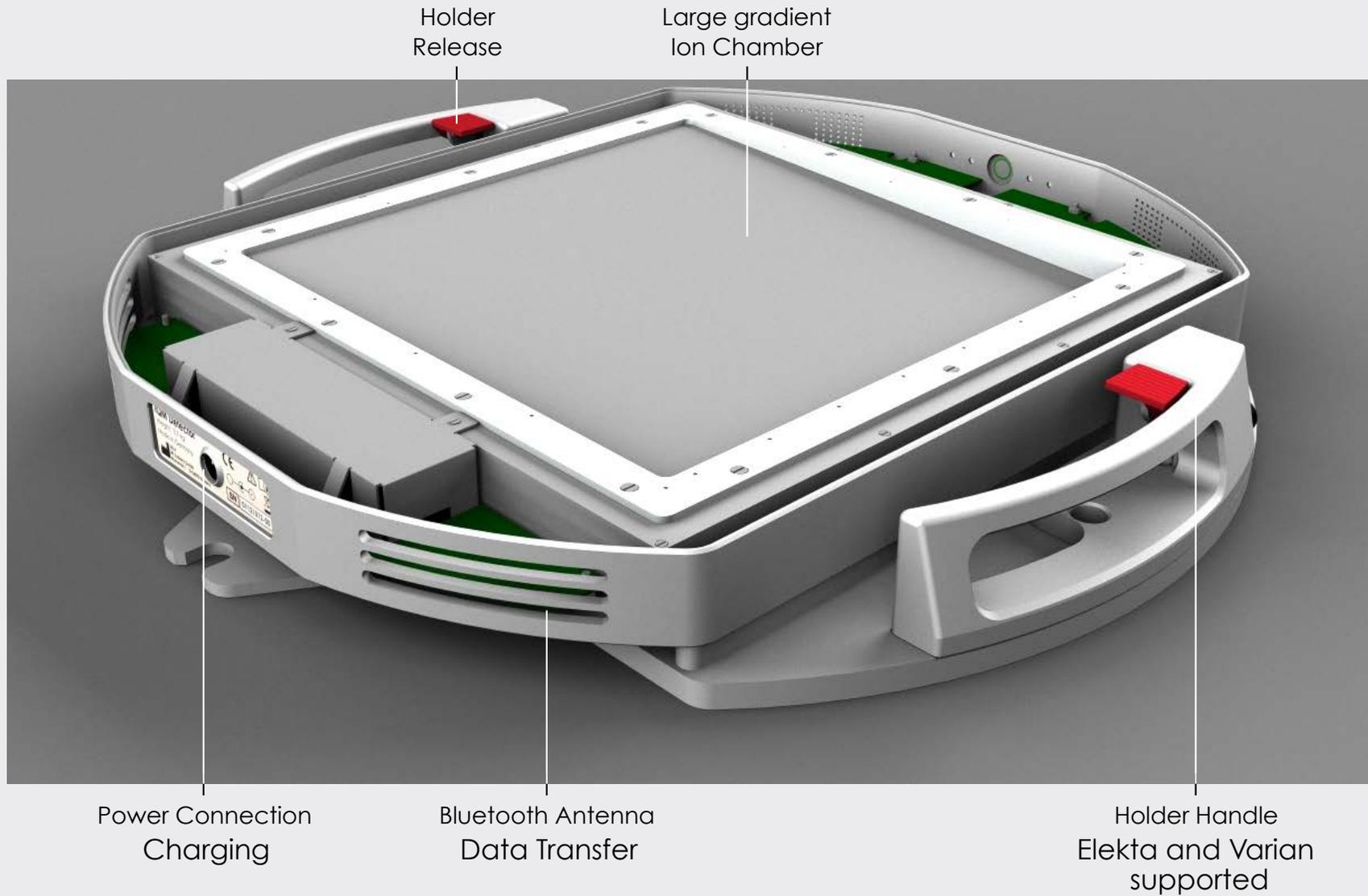
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Reproducibility  
< +/-0.5%

Polling repetition rate  
250 ms



Power Connection  
Charging

Bluetooth Antenna  
Data Transfer

Holder Handle  
Elekta and Varian  
supported

Angle Resolution  
+/-1°

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45cm x 35cm x 3.5cm

Dimensions (wxdxh)  
17.7" x 13.8" x 1.37"

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The unique patented detector design offers continuous spatial resolution.

Type of Detector  
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with gradient response

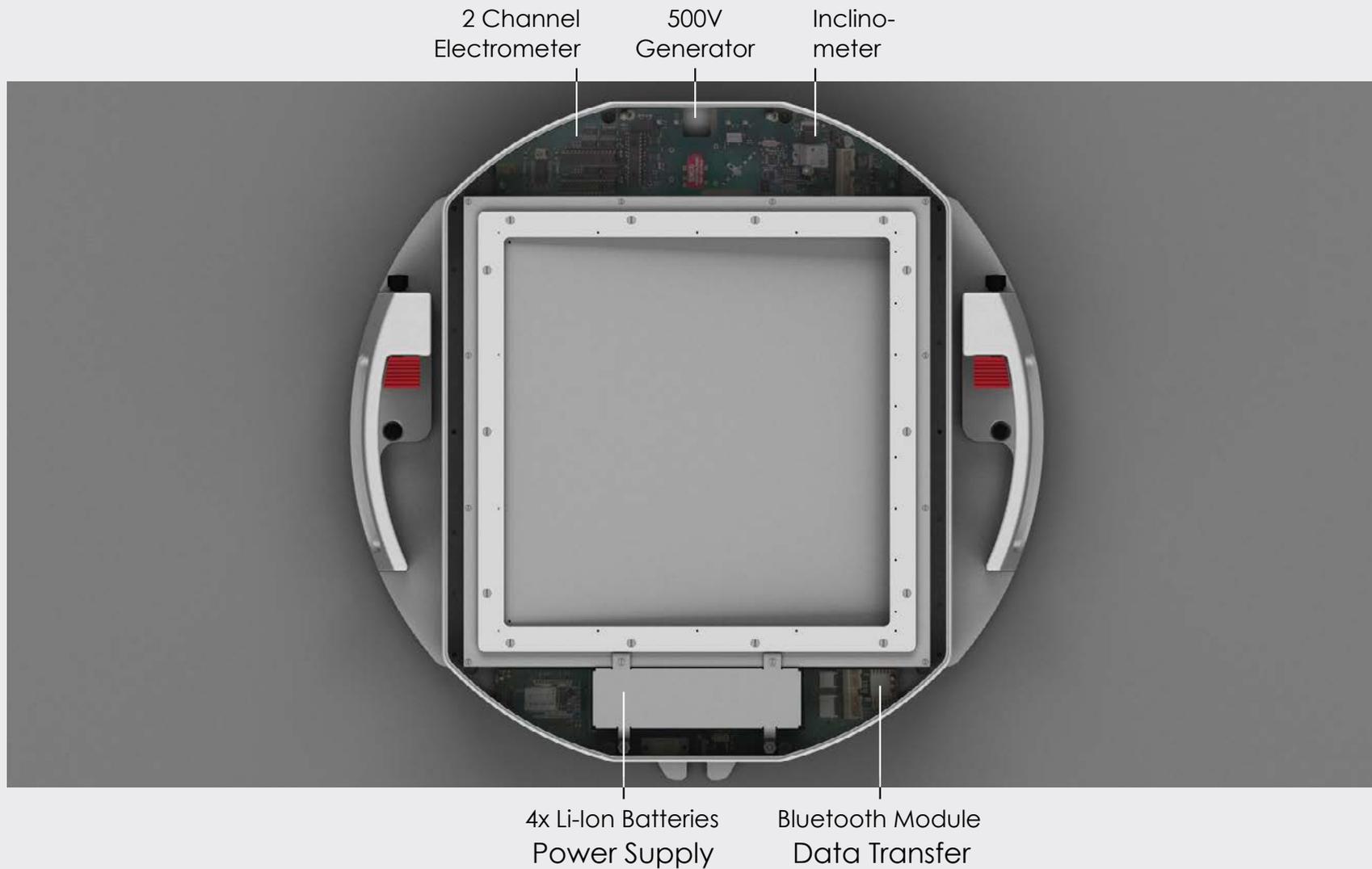
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26.5cm x 26.5cm

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  
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Battery runtime  
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# 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)



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