



EFOMP

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Inspiring the next generations
of Medical Physicists



ECMP
EUROPEAN CONGRESS OF MEDICAL PHYSICS

European Congress of Medical Physics
11-14 September 2024 | Munich, Germany



EFOMP leadership course
17th-19th March 2025



RTI Mako: the New X-Ray testing Tool Swimming Through the Market

5 reasons why Medical Physicists are switching to the new Mako Multimeter



Figure 1. Mako Shark series.

RTI Group are experts in X-ray Multimeters

Did you know that RTI Group developed the very first non-invasive X-ray multimeter in 1982? No other company in the world can have more experience when it comes to developing multimeters for X-ray testing.

With >40 years expertise, RTI Group have developed numerous hardware platforms, sharing names associated with aquatic creatures (fish), including the Barracuda (2001), the Piranha (2006 and rebrand

2014), the Cobia (2011), and now in 2024, the newest fish in the school, Mako (a Shark). These can all be found in the Ocean, with RTI Groups world-leading Ocean software providing ultimate usability and efficiency for your X-ray testing and QA.

Accuracy

Mako sharks feed on swordfish & tuna, they must be accurate! The new Mako X-ray metre is the most accurate X-ray testing tool on the market (kVp uncertainty of $\pm 1.5\%$), with unrivalled perfor-

mance across the widest kV range (18-155 kV). The groundbreaking new detector design takes strides beyond other metres, with the R/F Probe handling highest to lowest dose rates without need for any selections, covering Radiography, Fluoroscopy, CT and Dental modalities.

The dedicated “Mammo” Probe is the ultimate Mammography test tool, handling the entire clinical kV range from 18-49kV, even measuring the contrast-enhanced mammography ranges without the need to switch sensors above 40kV. With the widest angular measurement range, tomosynthesis acquisition can be measured, in addition to handling the latest systems & beam qualities on the market (including Titanium filters).



Figure 2. Mako protective transport case.

Efficiency

Mako (shark) is the fastest shark in the Ocean, and our X-ray metre has relatable efficiency. The role of a Medical Physicist can be all consuming. Getting the X-ray system back into action efficiently, while still performing the proper QA routine, is paramount. With Mako, the most efficient usability is experienced.

Place the Mako Probes in any orientation under the X-ray beam, no need to waste time on alignment or adjustments. Simply place and expose. It



Figure 3. Maiko X-Ray Mena with its Operational Tablet.

can also be set up fully wirelessly, with no range selections needed either. The advanced technology and design handles everything else.

Application Range

Mako sharks have wide-ranging habitats, and our Mako metre covers all X-ray modalities. The Ocean software is the display and gateway to the entire Mako system, which offers the broadest X-ray testing application range. Not only the Mako “R/F”, “Mammo” and “Dental” Probes, but a wide range of external Probes can be connected, even for simultaneous measurement.

For example, external dose probes (measure dose in 2 places at once), CT Probes (CTDI measurement with Ion Chamber & RTI CT Dose Profiler), Light probes (luminance and illuminance), DAP chambers (dose area product measurement), mAs probes (invasive mAs cable and non-invasive mAs clamp).

Whatever your needs and application, Mako can cover the widest range of applications covering all X-ray modalities.

Cost of ownership

Lavish budgets are not easy to come by, and you



Figure 4. Mako Holder for Mammography Applications.

need a tool that can support you for many years, with a good cost of ownership both up front, and during its lifetime.

While other sensors require yearly calibration, RTI products have a standard 2-year calibration cycle, reducing the costs, reducing the downtime, and reducing the amount of redundancy needed for when calibrations are due.

Our commitment to 10-day turnaround times is unmatched in the market, meaning that when you have to calibrate, you are not waiting around. We care about your experience.

When it comes to software, there are no extra fees for having more users. The licence is stored in the Mako system, so unlimited users can download the software, and departments can share a system without worrying about more costs. Ocean is free to download, and will always provide free updates.

While there may be restrictions on landing a Mako Shark, there are no restrictions on landing your Mako X-ray multimeter. If you want to join the revolution, ask about getting your Mako system today.



Michael Olding PhD, is Head of Product Management at RTI Group. Michael works on the interface between product development at RTI and global end users of RTI's products & solutions (physicists, engineers and medical professionals), and is passionate about ensuring user needs are at the forefront of new product development at RTI Group.



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The European Federation of Organisations in Medical Physics (EFOMP) was founded in May 1980 in London to serve as an umbrella organisation for medical physics societies in Europe. The current membership covers 36 national organisations which together represent more than 9000 medical physicists and clinical engineers working in the field of medical physics. The office moved to Utrecht, the Netherlands, in January 2021.

The motto developed and used by EFOMP to underline the important work of medical physics societies in healthcare is “Applying physics to healthcare for the benefit of patients, staff and public”.

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