INDEPENDENT X-RAY
QUALITY ASSURANCE

RTI Best Practice Guide

Positioning a meter in mammography: Mako vs. Piranha

Overview

When positioning your **Piranha** for Mammography applications, **Ocean software** will perform a “Position Check”, so that the detector is appropriately aligned with the X-ray beam, ensuring that data collection is accurate.

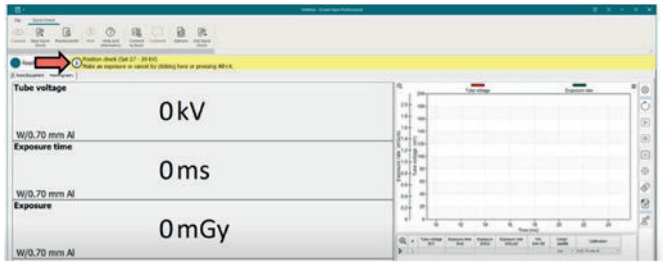
The groundbreaking detector design of the new **Mako** meter means that users no longer have to perform a “Position Check” in mammography, as Mako offers the widest angular aperture for measurements in the market.

This guide will overview the major changes in user experience for meter positioning, when transitioning from Piranha to Mako.

Mammography measurements with Piranha

Position Check using Piranha

The Quick Check display screen shows measurement parameters, waveforms and the measurement log from your connected meter (Bluetooth or USB). When working in Mammography applications with Piranha, Quick Check will display a yellow ribbon at the top of the screen, prompting you to perform your "**Position Check**":



What is a position check with Piranha?

Position check is when you make an X-ray exposure, and Ocean software automatically calculates ratios between the internal detectors within the Piranha, to ensure alignment of detector with the X-ray beam.

Position check OK (0,999)
Wait...

What should position check show?

Ideally, the ratio should be 1.000. If in tolerance, Ocean will respond by showing "**Position Check OK** (N.NNN)". Position Check has a tolerance on ±5%, meaning position check will pass with a value between 0.95 and 1.05.

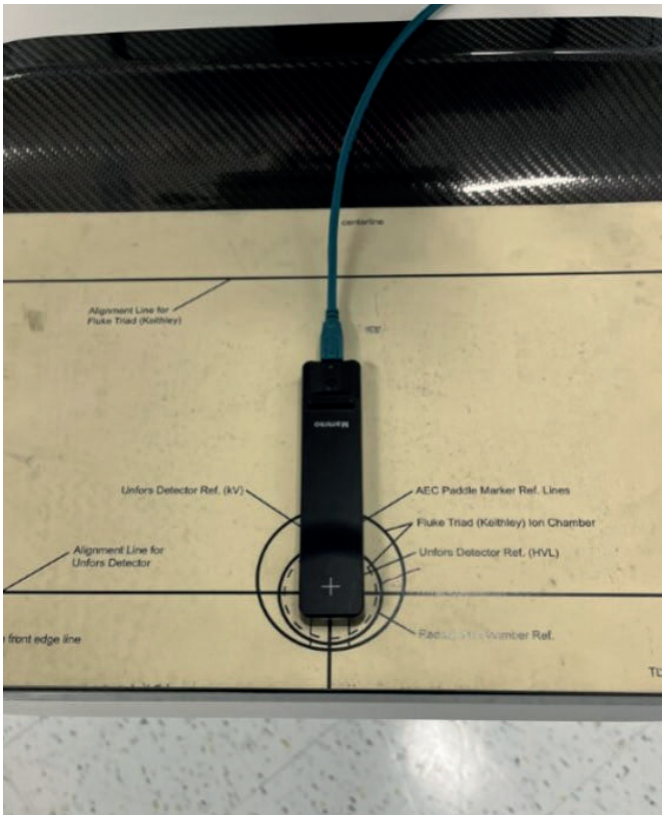
If out of tolerance, message will read "**Position Check Fail**". You should then re-position your Piranha under the X-ray beam and repeat the exposure before continuing to your measurements.

Position check failed (1,064). Reposition the meter and make a new exposure...
Click here (or Alt+X) to abort position check.

Check out the Support Article for more information on Piranha position check.

Mammography measurements with Mako

The new **Mako** systems allows configuration flexibility with the setup, as the new **Mako Mammo Probe** can be docked into the **Mako Base Unit** (left) or connected via USB cable (right).

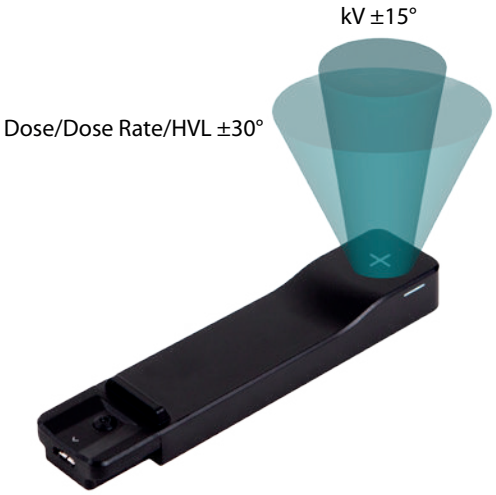


No position checks with Mako

With the new detector design, not only does Mako offer the widest angular range of measurement, but it also eliminates the need of position check. Mako can be placed in any orientation within the X-ray beam to give an accurate reading.

When starting a Quick Check with Mako, users can proceed straight to measuring, without performing a position check.

The Mako Mammo Probe also covers the entire clinical range from 18-49 kV, with market leading accuracy, and supports the latest Target/Filter combinations of the latest Mammography systems in the market.



2024.03

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