

Piranha



A Complete QA Solution Instantly

The different Piranha models are designed as a truly self-contained, all-in-one, multi-function meter and to be smart in different areas, so you can purchase the model that meets your exact application needs. Thanks to the variety of tailor made models and that you have the possibility to upgrade your Piranha – when your needs are growing – your investment is protected.

The Piranha comes ready-to-use. Everything you need is included. Standard detectors are built-in. Communication is made easy via Bluetooth or USB. Just connect the Piranha to your laptop and you have a complete QA-system.

The Piranha Assures Accurate Results in a Simple Way – in One Shot

kV, time, dose, dose rate, HVL, and total filtration. The Piranha will also measure CTDI and give you CT dose profiles. With Pulsed Fluoroscopy you add pulse rate and dose/pulse. It measures on Cine and Dental, both Panoramic and Intra-Oral, as well as on traditional and slot scanning Mammography.

A Superior Tool in Sensitivity and Filtration

The Piranha has an extremely sensitive detector, capable of measuring on low-output mini C-arms and Mammography. The Auto-Compensation pioneered by RTI, available on all our existing multi-function meters, corrects for any added filtration. This ensures confidence in the accuracy and reproducibility of measurements without compromise.

MPD Position Check

Piranha has a unique feature that makes it possible to check the position of the detector before a measurement is performed. When the Piranha is calibrated, a special filter (built into Piranha) is used to store a reference value with correctly irradiated detectors. By using the "Position Check" function the position of the Piranha can be verified by comparison against the reference value. Note that this method is superior to other positioning methods used by other devices. When positioning the Piranha, the actual detectors that measure kVp and dose are used to verify the position.

Choose the Piranha Model That Suits You

The Piranha models are divided into the following main groups:

- Radiography & Fluoroscopy /Mammo
- Radiography & Fluoroscopy
- Mammo
- Computed Tomography
- Dental

These features are included/excluded depending on model

- Waveform
- Dose and dose rate
- Wide-range
- External detector
- Detector Size

The size of the detector is very important when doing measurements on panoramic (OPG) systems. Panoramic systems has a very narrow beam and the detector must be small to be completely irradiated. The sensitive detector area on the Piranha, including kVp and dose detector, is only 3 x 21.1 mm (0.11" x 0.83").

Specifications Rad/Flu/Dent/CT

Range	Inaccuracy
35 - 155 kVp (Rad/Flu)	± 1.5 %
35 - 105 kVp (Dent) ± 1.5 %	± 1.5 %
75 - 150 kVp (CT) ± 1.5 %	± 1.5 %
0.1 ms - 2000 s	± 1 % or ± 0.5 ms
1 - 65535 pulses	± 1 pulse
30 nGy - 1000 Gy	± 5 %
4 μ R - 100 kR	± 5 %
15 nGy/s - 450 mGy/s	± 5 % or ± 7 nGy/s
1.7 μ R/s - 50 R/s	± 5 % or ± 0.8 μ R/s
0.1 mR/min - 3000 R/min	± 5 % or ± 0.05 mR/min
1.5 - 38 mm Al Total Filtr.	± 10 % or ± 0.3 mm
1.2 - 14 mm Al HVL	± 10 % or ± 0.2 mm

Specifications Mammography

Range	Inaccuracy
18 - 49 kVp (Mo/Mo)	± 0.7 kV
0.1 ms - 2000 s	± 1 % or ± 0.5 ms
1 - 65535 pulses	± 1 pulse
70 nGy - 2000 Gy	± 5 %
8 μ R - 200 kR	± 5 %
15 nGy/s - 750 mGy/s	± 5 % or ± 0.04 μ Gy/s
17 μ R/s - 86 R/s	± 5 % or ± 4 μ R/s
1 mR/min - 5100 R/min	± 5 % or ± 0.3 mR/min

Calibrations for beam qualities

Mo/Mo, Mo/Rh, Mo/Al, Rh/Rh, Rh/Al, W/Al, W/Rh, W/Ag