

# Piranha Dose Probe



*Innovative X-ray QA Solutions  
...of Course!*



The Piranha Dose Probe is specially designed for low dose rate measurements with the Piranha. The detector is small to minimize interference with the X-ray systems automatic exposure control. The Piranha Dose Probe is ideal for field service situations since the detector is well protected from damages by the metal housing. Since it is a solid-state detector no correction for temperature or pressure are needed and it needs no bias voltage.

## Fluoroscopy

The Piranha Dose Probe is designed for low dose rate measurements when measuring the input dose to the image intensifier. It can be used both for continuous and pulsed fluoroscopy. The Piranha Dose Probe is small and has a fast response which makes it ideal for pulsed fluoroscopy. It can detect the individual pulses, determine pulse rate and show waveforms even at the highest pulse rates used on modern fluoroscopy systems. This is not possible with ionization chambers since their response is too slow to resolve individual pulses.

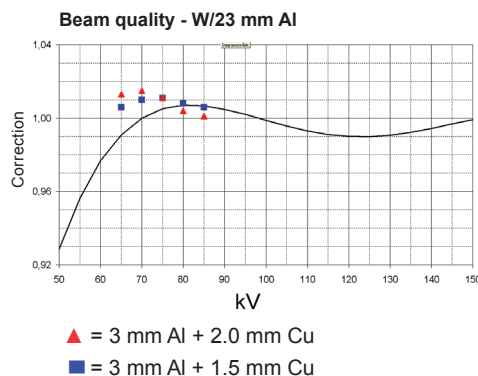
The Dose Probe supports the Piranha ADI (automatic detector identification) system. All information about the probe is stored in a memory inside the probe. When connected, the Piranha automatically identifies the probe and makes all necessary adjustments without any need for interaction from the user. The Piranha ADI system also gives full interchangeability of probes between different Piranha systems using the same type of probes.



## Specifications

<b>Type</b>	R100B
<b>Sensitivity</b>	55 $\mu\text{C}/\text{Gy}$
<b>Size</b>	20 x 45 x 7.4 mm, 0.79" x 1.8" x 0.29"
<b>Weight</b>	85 g (3 oz)
<b>Active detector area</b>	10 x 10 mm, 0.39" x 0.39"
<b>Cable length</b>	2.0 m (6.6 ft)
<b>Connector</b>	Piranha type with automatic detector identification
<b>Dose range</b>	0.1 nGy – >100 kGy 12 nR – >11000 kR
<b>Dose rate range</b>	4 nGy/s – 76 mGy/s 0.4 mR/h – 31 kR/h
<b>Dose per pulse</b>	1 nGy/pulse – 3 kGy/pulse
<b>Backscatter</b>	None
<b>Connector</b>	Hirose with built-in ADI (automatic detector identification) system.

## Typical Correction Graph



©RTI PiranhaDoseDetector 1-2.0-200805



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