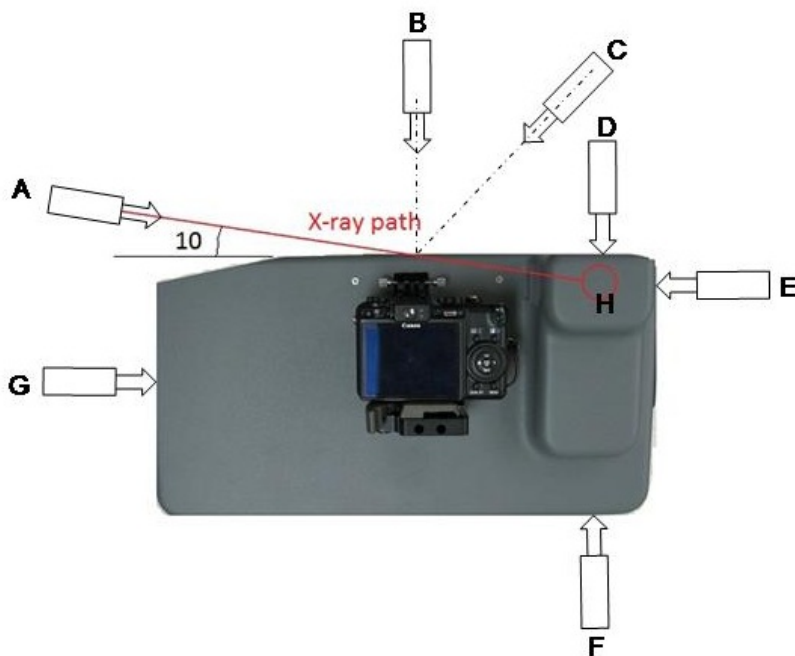


Duetto radiation profile

The radiation profile of a Duetto demo instrument was measured using a survey meter LUDLUM radiation ion chamber model 9-3 coupled to a LUDLUM Alpha Beta Gamma Detector - Model 44-7.

Directions of measurements are labeled in the figure bellow. Due to the open beam nature of the system, measurements in the beam direction were made with and without a sample blocking the beam. Operation of the instrument with no sample present is not recommended.



Direction	Distance (cm)	w/o sample ($\mu\text{Sv/hr}$)	with calibration plate ($\mu\text{Sv/hr}$)	comment
A	100	3000	<0.5	direct beam path
A	300	500	<0.5	direct beam path
B	10	<0.5	<0.5	
C	10	<0.5	<0.5	
D	5	<0.5		
E	5	<0.5		
F	5	<0.5		
G	5	<0.5		
H	5	<0.5		Top of X-ray tube

Note: 0.5 $\mu\text{Sv/hr}$ is equal to background measurement when the X-ray tube is turned off. This reading implies no X-rays are detected.