

RaySafe Solo Dose Specifications

The most straight forward model in the RaySafe Solo assortment measures dose, dose rate, time and pulses on both Radiographic and Fluoroscopic X-ray machines. It is ideal when the need is limited to performing dose measurements only. With the RaySafe Solo Dose you will have full range dose meter for almost any application.

SIZE DETECTOR	12 x 22 x 117 mm (0.5 x 0.9 x 4.6 in)	EXPOSURE TIME	
WEIGHT	50 g (2 oz)	RANGE	1 ms – 999s
DOSE (R/F LOW)		UNCERTAINTY	0.5 % or 0.2 ms
RANGE	10 nGy – 9999 Gy (1 μ R – 9999 R)	HVL ⁽³⁾	
TRIG LEVEL	100 nGy/s (0.7 mR/min)	RANGE	1.0-14.0 mm Al
UNCERTAINTY	5 % or \pm 10 nGy (1 μ R) (40-150kVp, HVL: 1.5-14mm Al ⁽¹⁾ , Active Compensation)	UNCERTAINTY	10 % or \pm 0.2 mm Al (at signal levels above 1/1000 of max dose rate for selected sensor)
DOSE (R/F HIGH)		PULSE	
RANGE	10 μ Gy-9999 Gy (1 mR-9999 R)	RANGE	1 – 9999 pulses
TRIG LEVEL	100 μ Gy/s (0.7 R/min)	PEAK TRIG LEVEL (R/F LOW)	> 3 μ Gy/s
UNCERTAINTY	5 % or \pm 10 nGy (1 μ R) (40-150kVp, HVL: 1.5-14mm Al ⁽¹⁾ , Active Compensation)	PEAK TRIG LEVEL (R/F HIGH)	> 1mGy/s
DOSE RATE (R/F LOW)		FOOTNOTES:	
RANGE	10 nGy/s -1 mGy/s (70 μ R/min-7 R/min)	⁽¹⁾ 45 mm Al added filtration at 145 kVp gives a HVL of ~13 mm Al.	
MIN. PEAK TRIG LEVEL	100 nGy/s (0.7 mR/min)	⁽²⁾ 1000 mGy/s up to 70 kVp, 400 mGy/s at 100 kVp, 250 mGy/s at 140 kVp.	
UNCERTAINTY	5 % or \pm 10 nGy (1 μ R) (40-150kVp, HVL: 1.5-14mm Al ⁽¹⁾ , Active Compensation)	⁽³⁾ HVL is an option to RaySafe Solo R/F.	
DOSE RATE (R/F HIGH)		⁽⁴⁾ Total filtration is included in the HVL option.	
RANGE	20 μ Gy/s – 1000 mGy/s ⁽²⁾ (140 mR/min – 7000 R/min)		
MIN. PEAK TRIG LEVEL	100 μ Gy/s (0.7 R/min)		
UNCERTAINTY	5 % or \pm 10 nGy (1 μ R) (40-150kVp, HVL: 1.5-14mm Al ⁽¹⁾ , Active Compensation)		



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