



RaySafe Solo R/F Specifications

The RaySafe Solo R/F measures kVp, dose, dose rate, time and pulse simultaneously on Radiographic and Fluoroscopic X-ray machines. This Solo model is the solution for physicists and others, when only R/F applications are needed.

Optionally, mAs can be added. Simultaneous measurements of radiation parameters and mAs can be obtained with the detector placed in the radiation field and the meter connected to the mAs port.

Long term reputation in the medical Industry.

Assurance we will offer competitive pricing.

Customer service #1 priority.

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SIZE DETECTOR	12 x 22 x 117 mm (0.5 x 0.9 x 4.6 in)	kV/kVp	
WEIGHT	50 g (2 oz)	RANGE	45 – 150 kV/kVp
DOSE (R/F LOW)		UNCERTAINTY	2% (for total filtrations from 2.5 mm Al up to 15 mm Al or equivalent, Active Compensation)
RANGE	10 nGy – 9999 Gy (1 μ R – 9999 R)	SENSITIVITY (R/F LOW)	0.4 mA, 40kV, 40cm 15.7in No added filtration
TRIG LEVEL	200 nGy/s (1.4 mR/min)	SENSITIVITY (R/F HIGH)	0.8 mA, 70kV, 50cm 19.7in No added filtration
UNCERTAINTY	5% or ± 10 nGy/s (70 μ R/min) 40-150kVp, HVL:1.5-14mm Al ⁽¹⁾ . Active Compensation	EXPOSURE TIME	
DOSE (R/F HIGH)		RANGE	1 ms – 999s
RANGE	10 μ Gy – 9999 Gy (1mR – 9999 R)	UNCERTAINTY	0.5% or 0.2 ms
TRIG LEVEL	100 μ Gy/s (0.7 R/min)	PULSE	
UNCERTAINTY	5% or ± 10 nGy/s (70 μ R/min) 40-150kVp, HVL:1.5-14mm Al ⁽¹⁾ . Active Compensation	RANGE	1 – 9999 pulses
DOSE RATE (R/F LOW)		PEAK TRIG LEVEL (R/F LOW)	> 3 μ Gy/s
RANGE	20 nGy/s – 1 mGy/s (140 μ R/min – 7 R/min)	HVL ⁽³⁾	
MIN. PEAK TRIG LEVEL	200 nGy/s (1.4 mR/min)	RANGE	1.0 – 14.0 mm Al
UNCERTAINTY	5% or ± 10 nGy/s (70 μ R/min) 40-150kVp, HVL:1.5-14mm Al ⁽¹⁾ . Active Compensation	UNCERTAINTY	10 % or ± 0.2 mm Al (at signal levels above 1/1000 of max dose rate for selected sensor)
DOSE RATE (R/F HIGH)		TOTAL FILTRATION ⁽⁴⁾	
RANGE	20 μ Gy/s – 1000 mGy/s ⁽²⁾ (140 mR/min – 7000 R/min)	RANGE	1.5-35 mm Al (60-120 KV)
MIN. PEAK TRIG LEVEL	100 μ Gy/s (0.7 R/min)	UNCERTAINTY	10 % or ± 0.2 mm Al (at signal levels above 1/1000 of max dose rate for selected sensor)
UNCERTAINTY	5% or ± 10 nGy/s (70 μ R/min) 40-150kVp, HVL:1.5-14mm Al ⁽¹⁾ . Active Compensation		

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⁽¹⁾ 45 mm Al added filtration at 145 kVp gives a HVL of ~13 mm Al.

⁽²⁾ 1000 mGy/s up to 70 kVp, 400 mGy/s at 100 kVp, 250 mGy/s at 140 kVp.

⁽³⁾ HVL is an option to RaySafe Solo dose and RaySafe Solo RAD.

⁽⁴⁾ Total filtration is included in the HVL option for RaySafe Solo