RaySafe ThinX An easy tool for fast results





RaySafe ThinX

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The RaySafe ThinX has been designed to meet the need for a basic multi-parameter instrument for simultaneous measurement of dose, dose rate, kVp, HVL, time and pulses. All parameters can be continually viewed in the convenient LCD display.

68.5

AN EASY-TO-USE INSTRUMENT

The RaySafe ThinX is an easy-to-use instrument thanks to its fully automatic user interface. There is no need to adjust settings, set-up or range selection, as the RaySafe ThinX works all automatically. As soon as radiation is detected the instrument switches itself on by using the automatic on/off function.

With a long battery lifetime of more than 1 year, no maintenance is needed.

possible.

HOW IT WORKS

Simply position the meter under the X-ray beam and make an exposure. The display shows all measured values.

1. POSITION INTRA / POSITION RAD







ACTIVE COMPENSATION

Thanks to the RaySafe Active Compensation technology, no further corrections are required regarding variations in beam filtration to both kVp and dose measurements.

Multiple sensors and advanced calculations automatically determine the beam quality, thereby eliminating the need for further corrections of measured kVp and dose values. The solid state sensor technology enables maximum accuracy whilst making measurements as effortless as

2. EXPOSE



1.84 mgy	4.59 ^{mGy} 2.7 _{mmRl}
68.5 kUp	401ms 21 mm

SPECIFICATIONS

According to	DOSE RATE	
EN 61000-6-1:2007 and EN 61000-6-3:2007	RANGE	0.1 mGy/s – 100 mGy/s at >70 kV (0.7 R/min–685 R/min)
One		Minimum dose rate at 50 kV
Auto, radiation triggered		is 0.5 mGy/s (3.4 R/min)
Automatic after 2.5 min of inactivity	RESOLUTION	0.01 mGy/s (0.1 R/min)
Automatic	UNCERTAINTY	5%
3V, CR 2450	HVI	
2 years of typical use	RANGE	1.0 – 10.0 mm Al
128 x 64 pixel LCD	RESOLUTION	0.1 mm Al
0.1 Gy/s (0.7 R/min)		
13 x 45 x 108 mm	UNCERTAINTY	10% or 0.2 mm AI
(0.5 x 1.8 x 4.3 in)	EXPOSURE TIME	
< /0 g (2.5 oz)	RANGE	10 ms – 10 s
	UNCERTAINTY	0.5%
45 – 150 kVp	RESOLUTION	1 ms
45 – 100 kVp	BANDWIDTH	0.5 kHz
0.5 kVp		0.3 KHZ
3%	PULSES W	2.000
	PULSES	3–999 puises, max 375 ms dead time between puises
20 μGy – 999 mGy at >70 kV (2.3 mR–114 R)	UNCERTAINTY	1 pulse
Minimum dose at 50 kV	V ACTIVE COMPENSATION	
is 100 μGy (11.4 mR)	RANGE (RAD) 1.5 mm AI – 0.5 r 45-125 kVp	15 mm Al = 0.5 mm Cu total filtration
1 μGy (0.1 mR)		45-125 kVp
5%		2.5 – 10 mm Al total filtration 125-150 kVp
	RANGE (INTRA)	1.5 – 10 mm Al total filtration 45-100 kVp
PARAMETERS	⁽¹⁾ If the X-ray generator waveform is pulsed the instrument will also	
	According to EN 61000-6-1:2007 and EN 61000-6-3:2007 One Auto, radiation triggered Automatic after 2.5 min of inactivity Automatic 3V, CR 2450 2 years of typical use 128×64 pixel LCD 0.1 Gy/s (0.7 R/min) $13 \times 45 \times 108$ mm (0.5 x 1.8 x 4.3 in) < 70 g (2.5 oz) 45 - 150 kVp 45 - 100 kVp 0.5 kVp 3% $20 \ \mu\text{Gy} - 999$ mGy at >70 kV (2.3 mR-114 R) Minimum dose at 50 kV is 100 \ \mu\text{Gy} (11.4 mR) $1 \ \mu\text{Gy}$ (0.1 mR) 5%	According to EN 61000-6-1:2007 and EN 61000-6-3:2007DOSE RATE RANGEOneAuto, radiation triggeredResolutionAutomatic 3V, CR 2450UNCERTAINTY2 years of typical use 128 x 64 pixel LCD 0.1 Gy/s (0.7 R/min)RESOLUTION UNCERTAINTY13 x 45 x 108 mm (0.5 x 1.8 x 4.3 in)UNCERTAINTY $< 70 g (2.5 oz)$ RANGE UNCERTAINTY $45 - 150 \text{ kVp}$ 3% RESOLUTION UNCERTAINTY $45 - 100 \text{ kVp}$ 0.5 kVp 3% DULSES for PULSES $20 \ \mu\text{Gy} - 999 \text{ mGy at }70 \text{ kV}$ $(2.3 \text{ mR}-114 \text{ R})$ UNCERTAINTY ACTIVE COMPENSATION RANGE (INTRA) $9 \ \text{PARAMETERS}$ RANGE (INTRA)

RaySafe ThinX Intra RaySafe ThinX RAD RaySafe ThinX RAD kVp RaySafe ThinX RAD Dose

Dose, rate, kVp, HVL, time, pulses Dose, rate, kVp, HVL, time, pulses kVp, time, pulses Dose, rate, HVL, time, pulses

automatically display pulses.

Unfors Instruments has changed its name to Unfors RaySafe www.raysafe.com

