

	RaySafe 452	Fluke 451P	Fluke 451B	RaySafe X2 Survey
				
<b>Description</b>	A user-friendly, and flexible meter for a wide range of hospital- and industrial applications. Rapid start-up, sensitive meter with wide energy response	A multi-purpose meter for a wide range of hospital- and industrial applications. The pressurized version (451P) is suitable for high sensitivity measurements, whereas 451B has a wider energy response		A high-performance meter optimized for measurements within the X-ray room
<b>Ideal for</b>	X-ray wall and tube leakage, environmental radiation, contamination measurements, radiotherapy, first responders	Environmental radiation, radiotherapy, non-destructive testing (NDT), first responders		X-ray QA, X-ray wall and tube leakage
<b>Technology</b>	GM tube, solid state stacked diodes. No shipping restrictions	Pressurized ion chamber. Shipping restrictions (hazardous material)	Ion chamber. No shipping restrictions	Solid state stacked diodes. No shipping restrictions
<b>Measures</b>	Dose, dose rate, mean energy, counts	Dose, and dose rate	Dose, and dose rate	Measures dose, dose rate, mean energy, time and shows waveforms
<b>Radiation detection</b>	$\gamma$ (dose and dose rate) $\alpha/\beta/\gamma$ (counts)	$\beta/\gamma$	$\alpha/\beta/\gamma$	$\gamma$ (dose and dose rate)
<b>Operational quantity [unit]</b>	Air kerma [R / Gy], H*(10), H*(10) [rem / Sv]	Air kerma [R], H*(10) [Sv]	Air kerma [R], H*(10) [Sv]	Air kerma [R / Gy], H*(10) [Sv]
<b>Air kerma rate</b>	0 - 114 R/h or 0 - 1 Gy/h 30 keV - 7 MeV	0 - 5 R/h	0 - 50 R/h	0 - 10 R/h or 0 - 100 mGy/h 40 keV - 150 keV
<b>H*(10) rate</b>	0 - 100 rem/h or 0 - 1 Sv/h 16 keV - 7 MeV	0 - 50 mSv/h	0 - 500 mSv/h	0 - 150 mSv/h 20 - 150 keV
<b>Data management</b>	USB connectivity to user-friendly data management software (RaySafe View)	RS-232 connectivity, support for Excel plugin	RS-232 connectivity, support for Excel plugin	USB connectivity to user-friendly data management software (RaySafe View)
<b>IP classification</b>	IP64	IP40	IP40	Indoor use only
<b>Weight</b>	0.8 kg (1.7 lbs)	1.07 kg (2.4 lbs)	1.1 kg (2.5 lbs)	Sensor: 140 g (4.9 oz) Base Unit: 521 g (18.4 oz)
<b>Dimensions</b>	25 x 12.7 x 8.3 cm (9.8 x 5.0 x 3.3 in.)	10 x 15 x 20 cm (4 x 6 x 8 in.)	10 x 15 x 20 cm (4 x 6 x 8 in.)	Sensor: 14 x 66 x 192 mm (0.5 x 2.6 x 7.6 in.) Base Unit: 34 x 85 x 54 mm (1.3 x 3.3 x 6.1 in.)

**FLUKE**  
Biomedical

**LANDAUER**

**RaySafe**