

PANORAMIC UNITS SITEX & SITEXS

PORTABLE X-RAY GENERATORS

Increase the reliability of on-site X-ray techniques while decreasing their costs

OUR CHALLENGE...

« To increase the reliability of on-site X-ray techniques while decreasing their costs »

To successfully meet this challenge, ICM's engineers have worked at improving upon what we consider to be largely tried and tested techniques.

The technological options were determined at each development stage on the basis of quality, general reliability and the need to substantially increase the life of the X-ray tube.

If you are already impressed with the reliability of the **SITE**× and **SITE**×S generators, we are confident that you will be even more impressed with their outstanding performance levels. These performance levels will enable you to take advantage of the most favorable overall operating costs available to the market.



A SIMPLE & EFFECTIVE PRINCIPLE

All **SITE**X and **SITE**XS units contain a rod anode. This is the focal spot that is outside the SF₆-insulated high-voltage generator. As maximum advantages are derived from this ideal configuration, for one and the same thickness, the volume of lead required for standard radiation protection is considerably reduced.

Consequently, the achieved reduced weight makes possible further investments in the quality and general improvement of the level of performance (robustness, cooling, accessories etc).

We can confirm that **SITE**X and **SITE**XS are among the lightest portable X-ray generators available on the market.

MEASUREMENT & CONTROL

Representing another first in a portable, the **SITE**X and **SITE**XS have a facility to ensure the direct and true measurement of the high voltage. This essential information enables the control system to guarantee the stability and reproducibility of the radiological parameters based on true high-voltage values rather than merely estimating an HV value based on dose output.

PERFORMANCE

A high-efficiency heat exchanger has been developed in collaboration with the Institute of Thermo-mechanics at the University of Liege. This results in the possibility of a 100% working cycle under completely safe conditions, whilst simultaneously reducing the anode temperature by 50%.

ENSURING PERFECT HOMOGENEITY

The **SITE**X and **SITE**XS panoramic X-ray tubes come equipped with a patented automatic system of beam correction. Perfect homogeneity is ensured thanks to a real time feedback loop adjustment and the EMR value achieved on the films is < 5%.

SITEXS, THE 'EXTRA-SMALL'...

These 'XS' X-ray generators are in fact reduced versions of the corresponding **SITE**X units available in 200, 225 and 250 kV versions and provide considerably more compactness.



SITEX & SITEXS panoramic technical specifications :

Total weight without guard rings	Overall dimensions	Microcontroller HT measurement circuit (kV and mA)	Max. leakage dose at 1m according to DIN at full output	Number of telescopic centring device (FFD=700mm)	Position of interconnection socket	Guard rings	Penetration into steel at max power (FFD=700mm/Film D7pb/D=1.5/T=20 min)	Weatherproof level	Cooling fan supply voltage	SF6 insulation pressure at 20°C	Storage temperature range	Operating temperature range	Working cycle at 40°C ambient temp.	Carrousel of internal diaphragms with lead cap	Inherent filtration	Dimension of optical focal spot	Maximum useful angle of X-ray beam	Radiation geometry	Tube current selection step	Tube current range at full output	Tube current range	Output voltage selection step	Output voltage range	SITEX & XS PANORAMIC
kg	mm		mSv/h	•	choice		mm Fe		VDC	kg/cm ²	°	°C	%	•	mm	mm	(°)	•	mA	mA	mA	k۷	k٧	UNITS
9.5	Ø250 x 653	yes	2		Radial	yes	16,5	IP65	24	5.0	-40 to +80	-25 to +70	50*		Equiv. 3.5 (Al)	Ø4x0.5	360 x (2x20)	True radial beam	0.1	N	1 to 3	_	50 to 180	C 1802S
28	Ø346 x 771	yes	2	ω	Axial/Radial	yes	36	IP65	24	5.0	-40 to +80	-25 to +70	100	no	2.5 (Al) + 0.4 (Ni)	Ø5x0.8	360 x (2x20)	True radial beam	0.1	7	1 to 7		70 to 200	C 2007
28	Ø346 x 771	yes	10	ω	Axial/Radial	yes	44	IP65	24	5.0	-40 to +80	-25 to +70	100	по	2.5 (Al) + 0.4 (Ni)	Ø5x 0.8	360 x (2x20)	True radial beam	0.1	7	1 to 7	-1	70 to 225	C 2257
28	Ø346 x 771	yes	10	ω	Axial/Radial	yes	48	IP65	24	5.0	-40 to +80	-25 to +70	100	no	2.5 (Al) + 0.4 (Ni)	Ø5x 0.8	360 x (2x20)	True radial beam	0.1	ហ	1 to 5		70 to 250	C 2505
32	Ø346 x 831	yes	10	ω	Axial/Radial	yes	60	IP65	24	5.0	-40 to +80	-25 to +70	100	no	2.5 (Al) + 0.4 (Ni)	Ø5 x 0.8	360 x (2x20)	True radial beam	0.1	ហ	1 to 5	-1	90 to 300	C 3005
32	Ø346 x 831	yes	10	ω	Axial/Radial	yes	65	IP65	24	5.0	-40 to +80	-25 to +70	100	no	2.5 (Al) + 0.4 (Ni)	Ø5 x 0.8	360 x (2x20)	True radial beam	0.1	ហ	1 to 5		90 to 320	C 3205
48	Ø400 x 930	yes	10	ω	Axial/Radial	yes	73	IP65	24	5.0	-40 to +80	-25 to +70	60	по	2.5 (Al) + 0.4 (Ni)	Ø6 x 1.0	360 x (2x20)	True radial beam	0.1	U	1 to 5	-1	120 to 360	C 3605
19	Ø305 x 718	yes	2	I	Axial/Radial	yes	32	IP65	24	5.0	-40 to +80	-25 to +70	100	no	4 (Al) + 0.4 (Ni)	Ø5 x 0.8	360 x (2x20)	True radial beam	0.1	4	1to4	1	70 to 200	XS-C 2004
19	Ø305 x 718	yes	10	1	Axial/Radial	yes	39	IP65	24	5.0	-40 to +80	-25 to +70	100	по	4 (Al) + 0.4 (Ni)	Ø5 x 0.8	360 x (2x20)	True radial beam	0.1	4	1 to 4	_	70 to 225	XS-C 2254
19	Ø305 x 718	yes	10	•	Axial/Radial	yes	46	IP65	24	5.0	-40 to +80	-25 to +70	100	по	4 (Al) + 0.4 (Ni)	Ø5 x 0.8	360 x (2x20)	True radial beam	0.1	4	1 to 4	1	70 to 250	XS-C 2504

*: Maximum continuous exposure time: 5 min.

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