

# 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 SITEX and SITEXS 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 SF<sub>6</sub>-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.





www.icmxray.com/ndt 🗼

**Tel:** +32 (0) 87 / 440 150 **Fax:** +32 (0) 87 / 440 160 E-mail: sales@icmxray.com

B-4821 Dison - Belgium Zoning "Les Plenesses" Rue du Progrès, 3

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	(FFD=700mm/Film D7pb/D=1.5/T=20 min)	Penetration into steel at max power	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	1	mSv/h	1	choice			mm Fe		VDC	kg/cm <sup>2</sup>	°	°C	%	•	mm	mm	(°)	ı.	mA	mΑ	mΑ	ĸ٧	k٧	UNITS
9.5	Ø250 x 653	yes	Z		Radial	yes	÷	16,5	IP65	24	5.0	-40 to +80	-25 to +70	50*		Equiv. 3.5 (Al)	Ø4x0.5	360 x (2x20)	Pan. Orthog.	0.1	2	1 to 3		50 to 180	<b>C</b> 1802S
28	Ø346 x 771	yes	N	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)	Pan. Orthog.	0.1	7	1 to 7		70 to 200	<b>C</b> 2007
28	Ø346 x 771	yes	10	ω	Axial/Radial	yes	:	44	IP65	24	5.0	-40 to +80	-25 to +70	100	no	) 2.5 (Al) + 0.4 (Ni)	Ø5x 0.8	360 x (2x20)	Pan. Orthog.	0.1	7	1 to 7		70 to 225	<b>C</b> 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)	Pan. Orthog.	0.1	ហ	1 to 5		70 to 250	<b>C</b> 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)	Pan. Orthog.	0.1	ហ	1 to 5		90 to 300	<b>C</b> 3005
32	Ø346 x 831	yes	10	ω	Axial/Radial	yes	;	: 00	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)	Pan. Orthog.	0.1	ហ	1 to 5		90 to 320	<b>C</b> 3205
48	Ø400 x 930	yes	10	ω	Axial/Radial	yes	i	73	IP65	24	5.0	-40 to +80	-25 to +70	60	no	2.5 (Al) + 0.4 (Ni)	Ø6 x 1.0	360 x (2x20)	Pan. Orthog.	0.1	ហ	1 to 5		120 to 360	<b>C</b> 3605
19	Ø305 x 718	yes	N		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)	Pan. Orthog.	0.1	4	1 to 4	-1	70 to 200	<b>XS-C</b> 2004
19	Ø305 x 718	yes	10	1	Axial/Radial	yes	1	39	IP65	24	5.0	-40 to +80	-25 to +70	100	no	4 (Al) + 0.4 (Ni)	Ø5 x 0.8	360 x (2x20)	Pan. Orthog.	0.1	4	1 to 4	-1	70 to 225	<b>XS-C</b> 2254

5.0 24 IP65 46

no

4 (Al) + 0.4 (Ni) Ø5 x 0.8 360 x (2x20) Pan. Orthog.

100

-25 to +70

-40 to +80

4

1 to 4 \_\_\_\_

70 to 250

XS-C2504

0.1

SITEX & SITEXS panoramic technical specifications :

\* : Maximum continuous exposure time: 5 min.

Ø305 x 718 yes 10

yes

Axial/Radial

19