

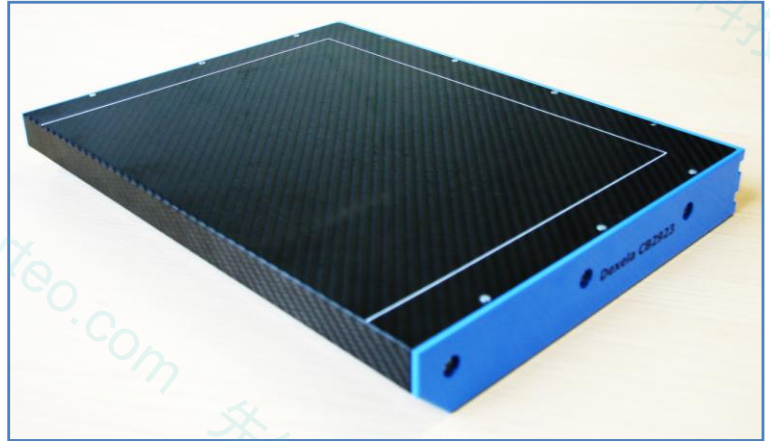
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DEXELA 2923 CMOS X-ray Detector Product Specifications

The Dexela 2923 CMOS X-ray Detector is a high speed, low noise X-ray detector with excellent low-dose performance. It employs the latest large-area CMOS image sensor technology and is supplied with a choice of columnar CsI or Gadox X-ray converters.

The Dexela 2923 CMOS X-ray Detector is specially designed for these breast imaging applications: full-field digital mammography (FFDM), tomosynthesis and breast CT. It is also well suited to high-speed dental cone-beam CT imaging, next generation cardiovascular diagnostic imaging equipment and mobile C-arms.



2923 CMOS X-ray Detector

Detector sensor	CMOS
X-ray converter	Columnar CsI or Gadox
Sensitive area (mm)	230 x 290
Pixels	3072 x 3888
Pixel size (um)	74.8 / 149.6 / 299.2 (depending on binning)
Image (MPixel)	12 to 0.7 (depending on binning)
MTF @ 6 lp/mm	>20 % (150um HR CsI, no binning)
DQE	0.7 at 0.5 lp/mm (25 kV, W / Al)
Binning	1 x 1, 1 x 2, 2 x 2, 1 x 4, 2 x 4, 4 x 4
Operating modes	High Sensitivity or High Saturation Modes
Dynamic range	6400x – 2400x depending on Operating Mode and Binning
Saturation Level (e-/pixel)	22,400,000 – 360,000
Frame rate (frames/s)	26 - 86 depending on binning
Special Readout mode	Non-destructive spatial sampling, 20,000 frames/s
ADC resolution	14-bits per pixel
Data interface	Camera Link Full Configuration
Power requirements	+4V/5A, +6V/3A, -6V/0.2A
Power consumption	45W (active) 0.5W (standby)
Operating temperature range (C)	+10 to +40
Storage temperature range (C)	-5 to +50
Size (mm)	273 x 352 x 43
Weight (kg)	6
Regulatory Compliance	CE- and ETL-marked, IEC 60601-1