

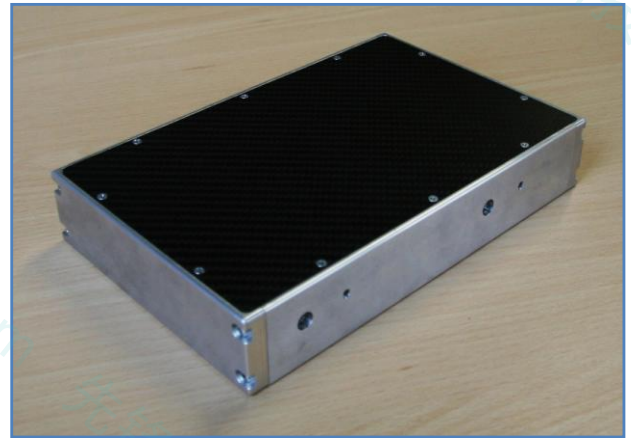
Dexela Limited

50-52 Wharf Road, London, N1 7EU, United Kingdom

DEXELA 1512 CMOS X-ray Detector Product Specifications

The Dexela 1512 CMOS X-ray Detector is a high speed, low noise flat panel X-ray detector built from a single silicon die. It employs the innovative large-area CMOS image sensor technology and is supplied with a choice of columnar CsI or Gadox X-ray converters. This detector has a Camera Link interface.

The Dexela 1512 CMOS X-ray Detector is suitable for small-field digital mammography, bone densitometry and high-speed dental cone-beam CT imaging. It can also be used for next generation fluoroscopic diagnostic imaging equipment, mini C-arms and non-destructive testing.



1512 CMOS X-ray Detector

Detector sensor	CMOS
X-ray converter	Gadox or CsI
Sensitive area (mm)	114.4 x 145
Pixels	1536 x 1944
Pixel size (um)	74.8 / 149.6 / 299.2 (depending on binning)
Image (MPixel)	3 to 0.2 (depending on binning)
MTF @ 6 lp/mm	>20 % (150um HR CsI at 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	Low Noise 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)	30 - 86 depending on binning (Camera Link)
Special Readout mode	Non-destructive spatial sampling, 20,000 frames/s
ADC resolution	14-bits per pixel
Data interface	Camera Link, Base Configuration
Power requirements	+6V/1A, -6V/0.1A +4V/1A
Power consumption	11W (active) 0.5W (standby)
Operating temperature range (C)	+10 to +40
Storage temperature range (C)	-5 to +50
Size (mm)	223 x 152 x 43
Weight (kg)	2
Regulatory Compliance	CE- and ETL-marked, IEC 60601-1

Version 2.0. Copyright Dexela Limited 2010. Manufactured by Dexela Limited. Specifications subject to change without notice.