

# Dexela Limited

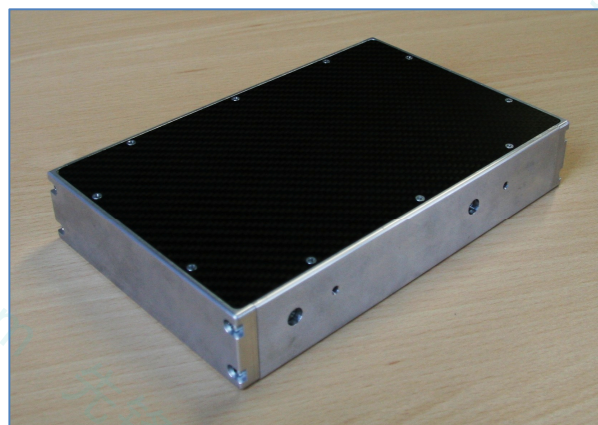
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## DEXELA 1207 CMOS X-ray Detector Product Specifications

The Dexela 1207 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 1207 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.



### 1207 CMOS X-ray Detector

<b>Detector sensor</b>	CMOS
<b>X-ray converter</b>	Gadox or CsI
<b>Sensitive area (mm)</b>	114.4 x 64.6
<b>Pixels</b>	1536 x 864
<b>Pixel size (um)</b>	74.8 / 149.6 / 299.2 (depending on binning)
<b>Image (MPixel)</b>	1.3 to 0.08 (depending on binning)
<b>MTF @ 6 lp/mm</b>	>20 % (150um HR CsI at no binning)
<b>DQE</b>	~0.7 at 1 lp/mm (28 kV, W / Al)
<b>Binning</b>	1 x 1, 1 x 2, 2 x 2, 1 x 4, 2 x 4, 4 x 4
<b>Operating modes</b>	Low Noise or High Saturation Modes
<b>Dynamic range</b>	6400x – 2400x depending on Operating Mode and Binning
<b>Saturation Level (e-/pixel)</b>	22,400,000 – 360,000
<b>Frame rate (frames/s)</b>	65 - 195 depending on binning (Camera Link)
<b>Special Readout mode</b>	Non-destructive spatial sampling, 20,000 frames/s
<b>ADC resolution</b>	14-bits per pixel
<b>Data interface</b>	Camera Link, Base Configuration
<b>Power requirements</b>	+6V/1A, -6V/0.1A +4V/1A
<b>Power consumption</b>	11W (active) 0.5W (standby)
<b>Operating temperature range (C)</b>	+10 to +40
<b>Storage temperature range (C)</b>	-5 to +50
<b>Size (mm)</b>	223 x 152 x 43
<b>Weight (kg)</b>	2
<b>Regulatory Compliance</b>	CE- and ETL-marked, IEC 60601-1

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