



IONA2-RF-3643 digital X-ray receptor Specification

Digital Technologies in Radiology

Revision 3

Technical specification		
Receptor Type	Photo-diode sensors array with optical coupling (PSA)	
Sensors Number	120	
Field of view, mm	360 x 432	
A/D Conversion	16 bits	
X-ray exposure auto detection (AED)	Integrated	
Data interface	Gigabit Ethernet	
Radiography mode		
Pixel Area	4096 x 5104	2048 x 2552
Screen Pixel Pitch, μm	98 x 128	195x256
Spatial Resolution, lp/mm	4.5	2.3
Fluoroscopy / tomosynthesis / CBCT		
Pixel Area	2048 x 2552	1024 x 1276
Screen Pixel Pitch, μm	195x256	391 x 511
Spatial Resolution, lp/mm	2.3	1.1
Frame per second (max)	7.5	30
Dimensions, mm	490(v) x 420(h) x 99 (d)	
Housing Material	Steel / Carbon fiber	
Weight, kg	< 8 kg	
Power	18V DC 50W	



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Primary Image Processing	
Geometric Distortion Correction	Software implementation, based on test-objects patterns ¹
Non-Uniformity Correction	Full range, based on series of flat-field test objects images for the given output brightness levels

1 Original patented technology

Receptor Dimensions

