



Digital Technologies in Radiology

IONA2-RF-2430
digital X-ray receptor
for mammography
Specification
 Rev 2

Technical specification		
Receptor Type	Photo-diode sensors array with optical coupling (PSA)	
Sensors Number	120	
Field of view, mm	244 x 304	
Conversion Screen Type	CsI	
A/D Conversion	16 bits	
X-ray exposure auto detection (AED)	Integrated	
Data interface	Gigabit Ethernet	
Radiography mode		
Pixel Area	4096 x 5416	4096 x 5104
Screen Pixel Pitch, μm	66 x 40	66 x 90
Spatial Resolution, lp/mm	7.0	6.2
Tomosynthesis		
Pixel Area	4096 x 5104	2048 x 2552
Screen Pixel Pitch, μm	66 x 90	132 x 180
Spatial Resolution, lp/mm	6.2	3.1
Frame per second (max)	1.8	7.0
Dimensions, mm	367(v) x 277(h) x 77 (d)	
Housing Material	Carbon fiber / steel	
Weight, kg	< 5	



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Power	18V DC 50W
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