

TECHNICAL DATA SHEET OF DIRA DFP4343

Active area size depending on the application:

Active area size, mm	Medical application	Industrial application
120 x 145	-	Non-destructive control
145 x 235	Interventional radiology, microsurgery, dental systems	
235 x 290	Interventional radiology and mammography, veterinary	
290 x 350		
350 x 430	General radiology	
290 x 700	Computed tomography	

Active pixels, depending on a detector size:	
120 x 145 mm	2.3K x 2.8K
145 x 235 mm	2.8K x 4.6K
235 x 290 mm	4.6K x 5.6K
290 x 350 mm	5.6K x 6.9K
350 x 430 mm	6.9K x 8.4K
290 x 700 mm	5.6K x 13.8K
Spatial frequency	10.0 lp/mm
Detective Quantum Efficiency (DQE) at 70 kV and 2.3 μ Gy	67%
CMOS pixel design	three p-i-n photodiodes
Maximum frame rate	100 frames/sec
Pixel size	50 μ m
Readout frequency, no less than	30MHz
Dynamic range	74dB
Grey scale	16 bit (65536)
Image acquisition time for maximum resolution	0.2 sec
Automatic exposure control (AEC) provided by dose-sensing via non-destructive sub-sampled image readout	Yes

	DFP4343 G5	DFP4343 G7	DFP4343 C5	DFP4343 C7
Active Pixels	3K x 3K			
Active image size, mm	430 x 430			
Spatial resolution, lp/mm	3.4	3.7	4.3	4.6
Scintillating screen	Gadox		Csl	
Gray Scale	16 bit			
Detector housing size, mm	491 x 497 x 43			
Bucky size, mm	550 x 587 x 131			