

# X-Panel 4343a PRM

a-Si X-ray flat panel detector



## Key Features

- 140  $\mu\text{m}$  pixel size
- Superior image quality
- Human bionic structural design
- Direct deposition Cesium Iodide (CsI) Scintillator effectively reduces light scattering between pixels

X-Panel 4343a PRM is a 43 x 43 cm portable type, amorphous silicon based dynamic flat panel detector. With a 140  $\mu\text{m}$  pixel size, it provides superior image quality and high image signal-to-noise ratio. Features excellent sensitivity and high dynamic range modes. It conforms to the structural design of human bionics, and is an optimal solution for medical DR and radiography.



# Technical Specifications

Technology	
Sensor	a-Si
Scintillator	CsI / GOS
Active Area	430 x 430 mm
Pixel Matrix	3072 x 3072
Pixel Pitch	140 $\mu$ m
AD Conversion	16 bits
Interface	
Data Interface	Gigabit Ethernet
Exposure Control	Pulse Sync In / Pulse Sync Out
Frame Speed	4fps(1x1) / 15fps(2x2) / 30fps(3x3)
Operating System	Windows7 / Windows10 OS 32 bits or 64 bits
Technical Performance	
Resolution	3.5 lp/mm
Energy Range	40~160 KV
Lag	0.8% @ 1st frame
Dynamic Range	$\geq$ 86 dB
Sensitivity	540 lsb/uGy
SNR	48 dB @ (20000lsb)
MTF	72% @ (1 lp/mm) 44% @ (2 lp/mm) 25% @ (3 lp/mm)
DQE (2uGy)	64% @ (0 lp/mm) 41% @ (1 lp/mm) 28% @ (2 lp/mm)
Mechanical	
Dimension(H x W x D)	460 x 460 x 15 mm
Weight	4.6 Kg
Sensor Protection Material	Carbon Fiber
Housing Material	Aluminum Alloy
Environmental	
Temperature Range	10~35°C (operating) ; -10~50°C (storage)
Humidity	30~70% RH (non-condensing)
Vibration	IEC 60068-2-6 Operation: 0.7G, 10-150Hz
Shock	IEC 60068-2-27 Operation: 2G, duration 11ms
Dust and Water Resistant	IP41
Power	
Supply	100~240 VAC
Frequency	50/60 Hz
Consumption	14 W

