

X-PANEL[®] 2323 FDM

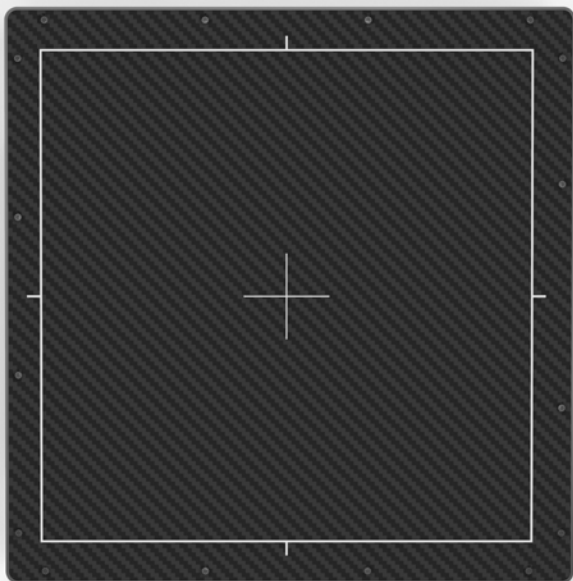


IGZO X-ray flat panel detector



Key features

- **Technology** IGZO-TFT
- **Pixel size** 148 μm
- **Pixel matrix** 1536 x 1536
- **Pixel area** 227 mm x 227 mm
- **Interface** Optical fiber
- **Frame rate** 40 fps (1x1) / 80 fps (2x2)
- **Applications** Mobile C-arm
Cone Beam Computed Tomography (CBCT)



X-Panel 2323 FDM is a low noise X-ray flat panel detector optimized for mobile C-arm and Cone Beam Computed Tomography (CBCT) applications. It is based on Indium Gallium Zinc Oxide (IGZO) technology.

X-Panel 2323 FDM has excellent image quality and frame speed, and a large dynamic range. Furthermore, it comes with multiple gain modes, that make it compatible with both high sensitivity and large dynamic range requirements.

Technical Specifications

Technology	
Sensor	IGZO-TFT
Scintillator	CsI
Active area	227 mm x 227 mm
Pixel matrix	1536 x 1536
Pixel pitch	148 µm
AD conversion	16 bits

Interface	
Communication interface	Optical fiber
Exposure control	Pulse sync in (edge or level) / Pulse sync out (edge or level)
Work modes	Software mode / HVG sync mode / FPD sync mode
Frame speed	40 fps (1x1) / 80 fps (2x2)
Operating system	Windows7 / Windows10 OS 32 bits or 64 bits

Mechanical	
Dimensions (HxWxD)	268 mm x 265 mm x 28 mm
Weight	2.8 kg
Sensor protection material	Carbon fiber
Housing material	Aluminum alloy

Power	
Supply	100~240 VAC
Frequency	50/60 Hz
Consumption	10 W

Environmental	
Temperature range	10~35°C (operating); -10~50°C (storage)
Humidity	30~70% RH (non-condensing)
Vibration	IEC/EN 60721-3 class 2M3 (10~150 Hz, 0.5 g)
Shock	IEC/EN 60721-3 class 2M3 (11 ms, 2 g)
IP rating	IPX0

Technical performance	
Resolution	3.37 lp/mm
Energy range	40~160 kV
Lag	≤0.8% @ 1st frame
Dynamic range	≥88 dB
Sensitivity	740 lsb/µGy
SNR	50 dB @ (20000 lsb)
MTF	60% @ (1 lp/mm)
	25% @ (2 lp/mm)
	10% @ (3 lp/mm)
DQE (2 µGy)	65% @ (0 lp/mm)
	45% @ (1 lp/mm)
	30% @ (2 lp/mm)

Application	
Medical	Digital imaging in mobile C-arm Image intensifier replacement Cone Beam Computed Tomography (CBCT)

X-Panel 2323 FDM outline

