

X-Panel 2323z FDM-TG



IGZO X-ray flat panel detector



Key Features

- Embedded image calibration feature for easy integration
- Pixel size 148 μm
- Low-noise, excellent dynamic image even at a low dose
- High speed without image delay
- The frame rate of Max. 40 fps (1x1) and Max. 80 fps (2x2)
- Cost saving

X-Panel 2323z FDM-TG is a 23 x 23 cm fixed type, dynamic flat panel detector based on Indium Gallium Zinc Oxide technology. The advanced IGZO TFT with CsI Scintillator provides an ultra low-noise image at a low dose and a high acquisition frame rate. It features excellent sensitivity and high dynamic range modes. X-Panel 2323z FDM-TG structural design effectively reduces the bending radius of the detector outlet, shortening the wiring space for easy installation and integration of systems. It performs well in C-arm systems, image intensifier replacement and upgrade.



Technical Specifications

Technology	
Sensor	IGZO
Scintillator	CsI
Active Area	227 x 227 mm
Pixel Matrix	1536 x 1536
Pixel Pitch	148 μm
AD Conversion	16 bits
Interface	
Data Interface	10G Ethernet
Exposure Control	Pulse Sync In / Pulse Sync Out
Work Mode	Software Mode / HVG Sync Mode / FPD Sync Mode
Frame Speed	40 fps (1x1) / 80fps (2x2)
Operating System	Windows7 / Windows10 OS 32 bits or 64 bits
Technical Performance	
Resolution	3.37 lp/mm
Energy Range	40~160 KV
Lag	0.8% @ 1st frame
Dynamic Range	≥88dB
Sensitivity	740 lsb/uGy
SNR	50 dB @ (20000lsb)
MTF	70% @ (1 lp/mm)
	42% @ (2 lp/mm)
	23% @ (3 lp/mm)
DQE (2uGy)	68% @ (0 lp/mm)
	43% @ (1 lp/mm)
	28% @ (2 lp/mm)
Mechanical	
Dimension(H x W x D)	268 x 265 x 28 mm
Weight	2.8 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	IPX0
Power	
Supply	100~240 VAC
Frequency	50/60 Hz
Consumption	13 W

