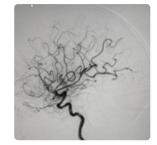# X-Panel 3030z FDM-TG-X

IGZO X-ray flat panel detector

Detection Technology

Key Features

- Embedded image calibration feature for easy integration
- Pixel pitch 99 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)
- Direct deposition Cesium Iodide (CsI) Scintillator effectively reduces light scattering between pixels

X-Panel 3030z FDM-TG-X is a 30 x 30 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 for high-end applications including cardiac and cerebral angiography. X-Panel 3030z FDM-TG-X 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 DSA angiography.

Technical Specifications

Technology	
Sensor	IGZO
Scintillator	CsI
Active Area	304 x 304 mm
Pixel Matrix	3072 x 3072
Pixel Pitch	99 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	5.0 lp/mm
Energy Range	40~160 KV
Lag	0.8% @ 1st frame
Dynamic Range	≥76 dB
Sensitivity	360 lsb/uGy
SNR	47 dB @ (20000lsb)
MTF	75% @ (1 lp/mm)
	48% @ (2 lp/mm)
	29% @ (3 lp/mm)
DQE （2uGy)	66% @ (0 lp/mm)
	38% @ (1 lp/mm)
	21% @ (2 lp/mm)

Mechanical	
Dimension(H x W x D)	344 x 341 x 28 mm
Weight	5.0 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	22 W