X-Panel 3030z FDI-TG-X



IGZO X-ray flat panel detector

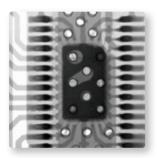


Key Features

- •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 FDI-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. X-Panel 3030z FDI-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 electronics inspection, lithium battery inspection and industrial CT.





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Technical Specifications

Technology		
Sensor		IGZO
Scintillator		Csl
Active Area		304 x 304 mm
Pixel Matrix		3072 x 3072
Pixel Pitch		99 µm
AD Conversion		16 bits
Interface		
Data Interface Exposure Control		10G Ethernet Pulse Sync In / Pulse Sync Out
Work Mode		Software Mode / HVG Sync Mode / FPD Sync Mode
Frame Speed Operating System		40 fps (1x1) / 80fps (2x2) Windows7 / Windows10 OS 32 bits or 64 bits
		windows///windows10 OS 32 bits of 64 bits
Technical Perfor	mance	E 0 la lana
Resolution Energy Range		5.0 lp/mm 40~160 KV / 350 KV
Lag		0.8% @ 1st frame
Lag 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)
Mashaniaal		
Mechanical		24424120
Dimension(H x W x D)	344 x 341 x 39 mm 6.5 Kg / 12.5 Kg
Weight Sensor Protection M	aterial	Carbon Fiber
Sensor Protection Material Housing Material		Aluminum Alloy
Environmental		
		10.25% (operating) + $10.50%$ (storage)
Temperature Range Humidity		10~35°C (operating) ; -10~50°C (storage) 30~70% RH (non-condensing)
Vibration		IEC 60068-2-64 Operation: 1G, 5-500Hz
Shock		IEC 60068-2-27 Operation: 2G, duration 11ms
Shock Dust and Water Resi	stant	IEC 60068-2-27 Operation: 2G, duration 11ms IPX0
Dust and Water Resi	stant	
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Dust and Water Resi	stant	IPX0
Dust and Water Resi Power Supply		IPX0 100~240 VAC
Dust and Water Resi Power Supply Frequency		IPX0 100~240 VAC 50/60 Hz
Dust and Water Resi Power Supply Frequency	32 . 2×MOUNTING HOLES as a	IPX0 100~240 VAC 50/60 Hz 36 W
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Dust and Water Resi Power Supply Frequency	32 2×MOUNTING HOLES 32 MG-0.8×4mm DEEP 32	IPX0 100~240 VAC 50/60 Hz 36 W ★
Dust and Water Resi Power Supply Frequency Consumption	32 2×MOUNTING HOLES MS-0.8×4mm DEEP 32 344	IPX0 100~240 VAC 50/60 Hz 36 W 2 3 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4
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Dust and Water Residence Power Supply Frequency Consumption 4 4 4 4 4 4 4 4 4 4 4 4 4	32 2×MOUNTING HOLES MS-0.8×4mm DEEP 32 344	IPX0 100~240 VAC 50/60 Hz 36 W $\frac{7}{1}$
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Dust and Water Resi Power Supply Frequency Consumption 4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 8 14 14 14 14 14 14 14 14 14 14	32 2×MOUNTING HOLES MS-0.8×4mm DEEP 32 344	IPX0 100-240 VAC 50/60 Hz 36 W
Dust and Water Resi Power Supply Frequency Consumption 4 4 4 4 5 9 4 4 5 4 4 4 5 4 4 4 5 4 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	32 32 MS-0.8×4mm DEEP 32 32 32 32 32 32 32 32 32 32	IPX0 100~240 VAC 50/60 Hz 36 W
Dust and Water Resi Power Supply Frequency Consumption 4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 8 14 14 14 14 14 14 14 14 14 14	32 32 MS-0.8×4mm DEEP 344 304.1(ACTIVE AERA) 4 304.1(ACTIVE AERA) 4 4 4 4 4 4 4 4 4 4 4 4 4	IPX0 100~240 VAC 50/60 Hz 36 W
Dust and Water Resi Power Supply Frequency Consumption 4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 8 14 14 14 14 14 14 14 14 14 14	32 32 MS-0.8×4mm DEEP 344 304.1(ACTIVE AERA) 4 304.1(ACTIVE AERA) 4 4 4 4 4 4 4 4 4 4 4 4 4	IPX0 100~240 VAC 50/60 Hz 36 W
Dust and Water Resi Power Supply Frequency Consumption 4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 8 14 14 14 14 14 14 14 14 14 14	32 32 32 32 32 32 32 32 32 32	IPX0 100~240 VAC 50/60 Hz 36 W
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