X-Panel 1313z FDI



IGZO X-ray flat panel detector

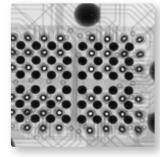


Key Features

- 85 µm pixel pitch
- Excellent sensitivity and high dynamic range modes
- Fast frame rate 35 fps (1x1)
- Csl scintillator offers lower dose and high image quality

X-Panel 1313z FDI is a low noise X-ray flat panel detector optimized for SMT and battery inspection application. It is based on Indium Gallium Zinc Oxide (IGZO) technology that supports a fast frame rate among other benefits.

X-Panel 1313z FDI has excellent image quality and large dynamic range. Furthermore, it comes with multiple gain modes, that make it compatible with both high sensitivity and large dynamic range requirements.





DT Imaging Technology (Shanghai) Co., Ltd.

Technical Specifications

Technology Sensor Scintillator Active Area Pixel Matrix Pixel Matrix Pixel Pitch AD Conversion Interface Data Interface Exposure Control Frame Speed Operating System Technical Performance Interface	IGZO Csl 128.52 x 128.52 mm 1536 x 1536 85 μm 16 bits 2.5G Ethernet Pulse Sync In / Pulse Sync Out 35fps (1x1)
Scintillator Active Area Pixel Matrix Pixel Pitch AD Conversion Interface Data Interface Exposure Control Frame Speed Operating System Technical Performance	Csl 128.52 x 128.52 mm 1536 x 1536 85 µm 16 bits 2.5G Ethernet Pulse Sync In / Pulse Sync Out
Active Area Pixel Matrix Pixel Pitch AD Conversion Interface Data Interface Exposure Control Frame Speed Operating System Technical Performance	128.52 x 128.52 mm 1536 x 1536 85 μm 16 bits 2.5G Ethernet Pulse Sync In / Pulse Sync Out
Pixel Matrix Pixel Pitch AD Conversion Interface Data Interface Exposure Control Frame Speed Operating System	1536 x 1536 85 µm 16 bits 2.5G Ethernet Pulse Sync In / Pulse Sync Out
Pixel Pitch AD Conversion Interface Data Interface Exposure Control Frame Speed Operating System	85 µm 16 bits 2.5G Ethernet Pulse Sync In / Pulse Sync Out
AD Conversion Interface Data Interface Exposure Control Frame Speed Operating System Technical Performance	16 bits 2.5G Ethernet Pulse Sync In / Pulse Sync Out
Interface Data Interface Exposure Control Frame Speed Operating System Technical Performance	2.5G Ethernet Pulse Sync In / Pulse Sync Out
Data Interface Exposure Control Frame Speed Operating System Technical Performance	Pulse Sync In / Pulse Sync Out
Exposure Control Frame Speed Operating System Technical Performance	Pulse Sync In / Pulse Sync Out
Frame Speed Operating System Technical Performance	
Operating System Technical Performance	
Technical Performance	Windows7 / Windows10 OS 32 bits or 64 bits
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Resolution	5.8 lp/mm
Energy Range	40~160KV / 350KV
Lag	0.8% @ 1st frame
Dynamic Range	≥75 dB
Sensitivity	480 lsb/uGy
SNR	45 dB @ (20000lsb)
MTF	75% @ (1 lp/mm)
	50% @ (2 lp/mm)
	32% @ (3 lp/mm)
DQE (2uGy)	60% @ (0 lp/mm)
	45% @ (1 lp/mm)
	30% @ (2 lp/mm)
Mechanical	
Dimension(H x W x D)	176 x 176 x 35 mm
Weight	1.5 kg / 2.8 kg
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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 60068-2-64 Operation: 1G, 5-500Hz
Shock	IEC 60068-2-27 Operation: 2G, duration 11ms
Dust and Water Resistant	IPX0
Power	
Supply	100~240 VAC
Frequency	
Consumption	50/60 Hz
	12 W
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176 128.52 (ACTIVE AERA)	35
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	M5-0.8×4mm DEEP
	® [©] _4xMOUNTIN M5-0.8×6mm
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M5-0.8×4mm DEEP	
MS-0.8×4mm DEEP	3IS GROUND S44mm DEEP
MS-0.8×4mm DEEP	3IS GROUND S44mm DEEP
	3IS GROUND S44mm DEEP
MS-0.8-44mm DEEP	3IS GROUND S44mm DEEP