Whale2530FQI-X

a-Si X-ray flat panel detector



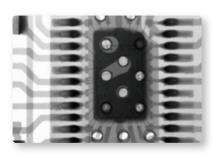


Key Features

- •100 µm pixel pitch
- •Excellent sensitivity and high dynamic range modes
- •ROI area scan function can replace the linear array detector
- •CSI scintillator offers lower dose and high image quality

Whale2530FQI-X is a 24.3 x 30.7cm fixed type and low noise X-ray flat panel detector based on a-Si technology that features excellent sensitivity and high dynamic range modes among other benefits. Whale2530FQI-X has good image quality and a large dynamic range. It is an optimal solution in lithium battery, electronics application .





Technical Specifications

Technology	
Sensor	A-Si
Scintillator	CSI / GOS
	243 x 307 mm
Active Area	2432 x 3072
Pixel Matrix	
Pixel Pitch	100 μm
AD Conversion	16 bits
Interface	
Data Interface	2.5G Ethernet
Exposure Control	Pulse Sync In / Pulse Sync Out
Frame Speed	12fps (1×1) /24fps (2×2)
Operating System	Windows7 / Windows10 OS 32 bits or 64 bits
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Technical Performance	
Resolution	5.0 lp/mm
Energy Range	40~160 KV / 350KV
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)
DOE (2uCv)	64% @ (0 lp/mm)
DQE (2uGy)	
	38% @ (1 lp/mm)
	21% @ (2 lp/mm)
Mechanical	
Dimension(H x W x D)	343 x 286 x 34.5 mm
Weight	4.4 kg / 6.9 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/EN 60721-3 class 2M3 (10~150 Hz, 0.5 g)
Shock	IEC/EN 60721-3 class 2M3 (11 ms, 2 g)
Shock Dust and Water Resistant	IEC/EN 60721-3 class 2M3 (11 ms, 2 g)
Shock Dust and Water Resistant Power	IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0
Shock Dust and Water Resistant Power Supply	IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0 100~240 VAC
Shock Dust and Water Resistant Power Supply Frequency	IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0 100~240 VAC 50/60 Hz
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Shock Dust and Water Resistant Power Supply Frequency Consumption 2×MOUNTING HOLES M5-0.8×5mm DEEP 38.9 28.9 47.1	IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0 100~240 VAC 50/60 Hz 12 W
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Shock Dust and Water Resistant Power Supply Frequency Consumption 47.1 Amagin 286 245.2(ACTIVE AERA) 286 245.2(ACTIVE AERA)	IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0 100~240 VAC 50/60 Hz 12 W 1725 4*MOUNTING HOLES M5-0.8×8mm DEEP 7
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Shock Dust and Water Resistant Power Supply Frequency Consumption 2*MOUNTING HOLES MS-0.8*Smm DEEP 38.9 47.1 A7.1	IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0 100~240 VAC 50/60 Hz 12 W 17.25 2×MOUNTING HOLES M5-0.8×8mm DEEP 34.5 2×MOUNTING HOLES M5-0.8×5mm DEEP
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Shock Dust and Water Resistant Power Supply Frequency Consumption 2*MOUNTING HOLES M5-0.8*5mm DEEP 20.4 MARGIN 2*MOUNTING HOLES M5-0.8*5mm DEEP 17.25 27.6 EE	IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0 100~240 VAC 50/60 Hz 12 W 17.25 2×MOUNTING HOLES M5-0.8×8mm DEEP 7 17 7 7 7 7 7 7 7 7 7 7 7
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