Shark3030FDM-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 lodide (CsI) Scintillator effectively
- reduces light scattering between pixels

Shark3030FDM-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. Shark3030FDM-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.





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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 Work Mode	Pulse Sync In / Pulse Sync Out 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 MTF	47 dB @ (20000lsb) 75% @ (1 lp/mm)
	IVI I F	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	4.3 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)
	Dust and Water Resistant	IPX0
	Power	
		100~240 VAC
	Supply Frequency	100~240 VAC 50/60 Hz
	Supply	100~240 VAC 50/60 Hz 22 W
	Supply Frequency Consumption	50/60 Hz 22 W
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24MOUNTI USO 021	Supply Frequency Consumption 2 ^{24MOUNTING HOLES} MS-0.8 ^{24Amm DEP} 4 4 4 4 4 4 4 4 4 4 4 4 4	50/60 Hz 22 W $32 \xrightarrow{5}{1}$ $1 \xrightarrow{7}{2}$ $1 \xrightarrow{7}{2}$
2×MOUNTI M5-0.8×0	Supply Frequency Consumption	50/60 Hz 22 W 32 S ²
2×MOUNTI M5-0.8×1	Supply Frequency Consumption 2-MS-08-4mm DEP 4 4 4 4 4 4 4 4 4 4 4 4 4	50/60 Hz 22 W 32 S ²
224MOUNTI M5-0.8*3	Supply Frequency Consumption 2 ^{24MOUNTING HOLES} MS-0.8 ^{24Amm DEP} 4 4 4 4 4 4 4 4 4 4 4 4 4	50/60 Hz 22 W 32 * 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
2×#40UNTT M5-0.8×0	Supply Frequency Consumption 2-MS-08-4mm DEP 4 4 4 4 4 4 4 4 4 4 4 4 4	50/60 Hz 22 W 32 \overrightarrow{r}
2×MOUNTI M5-0.8×1	Supply Frequency Consumption 2-MS-08-4mm DEP 4 4 4 4 4 4 4 4 4 4 4 4 4	50/60 Hz 22 W 32 * 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
2×MOUNTI M5-0.8×	Supply Frequency Consumption	50/60 Hz 22 W 32 $$
2×MOUNTI M50.8×	Supply Frequency Consumption	50/60 Hz 22 W
2×MQUNTI M5-0.8×0	Supply Frequency Consumption	50/60 Hz 22 W
2×MOUNTI M5-0.8×t	Supply Frequency Consumption	50/60 Hz 22 W 32 T 1 1 1 1 1 1 1 1 1 1 1 1 1
2×MOUNTI M5-0.8×1	Supply Frequency Consumption	50/60 Hz 22 W
2×MOUNTI M5-0.8×	Supply Frequency Consumption	50/60 Hz 22 W
24MOUNTI M50.84	Supply Frequency Consumption 204 204 344 304.1(ACTIVE AERA)	50/60 Hz 22 W