Shark4343FPM

IGZO X-ray flat panel detector

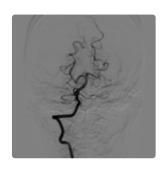


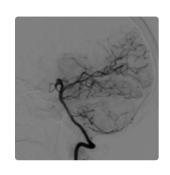


Key Features

- •Pixel size 140 μm
- •Low-noise, excellent dynamic image even at a low dose
- •High speed without image delay
- •The frame rate 20 fps
- Direct deposition Cesium Iodide (CsI) Scintillator effectively reduces light scattering between pixels

Shark4343FPM is a 43 x 43cm 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. It is an optimal solution for digital fluoroscopy, dynamic DR, and DSA angiography.





Technical Specifications

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Technology	
Sensor	IGZO
Scintillator	CSI
Active Area	430 x 430 mm
Pixel Matrix	3072 x 3072
Pixel Pitch	140 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	20 fps (1×1)
Operating System	Windows7 / Windows10 OS 32 bits or 64 bits
Technical Performance	
Resolution	3.5 lp/mm
Energy Range	40~160 KV
Lag	0.8% @ 1st frame
Dynamic Range	≥88dB
Sensitivity	620 lsb/uGy
SNR	49 dB @ (20000lsb)
MTF	72% @ (1 lp/mm)
	44% @ (2 lp/mm)
	25% @ (3 lp/mm)
DQE (2uGy)	67% @ (0 lp/mm)
5 42 (255)	42% @ (1 lp/mm)
	28% @ (2 lp/mm)
Mechanical	
Dimension(H x W x D)	470 x 470 x 34 mm
Weight	9.5 Kg
Sensor Protection Material	Carbon Fiber
Housing Material	Aluminum Alloy
Fundamental	
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	
Supply	100~240 VAC
Frequency	
	FO/CO II-
Consumption	50/60 Hz
Consumption	50/60 Hz 14W
Consumption	
	14W
85 12	1.4VV ——2X MOUNTING HOLES MS 0.8 X 3.0 mm DEEP
85 12	14W
470 430.08 (ACTIVE AREA)	14W **ZS MOUNTING HOLES MS-03 x 3.0 mm DEEP 19.9 (GMARGIN)
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470 430.08 (ACTIVE AREA)	14W
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470 430.08 (ACTIVE AREA)	14W -2x MOUNTING HOLES MS-0.8 x 5.0 mm DEEP 19 9(MARGIN)
470 43008 (ACTIVE AREA)	14W -2x MOUNTING HOLES MS-0.8 x 5.0 mm DEEP 19 9(MARGIN)
470 430.08 (ACTIVE ARSA) 38	14W -2x MOUNTING HOLES MS-0.8 x 5.0 mm DEEP 19 9(MARGIN)
470 43008 (ACTIVE ARSA)	14W -2x MOUNTING HOLES MS-0.8 x 5.0 mm DEEP 19 9(MARGIN)
470 430.08 (ACTIVE ARSA) 38	14W -2x MOUNTING HOLES MS-0.8 x 5.0 mm DEEP 19 9(MARGIN)
470 43008 (ACTIVE ARSA)	14W T2X MOUNTING HOLES MS 0.8 x 5.0 mm DEEP 19.9 (QAMACGN) 19.9 (QAMACGN) 15
470 43008 (ACTIVE AREA)	14W -2x MOUNTING HOLES MS-03 x 3.0 mm DEEP 19 9(MARGIN)
470 43008 (ACTIVE AREA)	14W -2xMOUNTING HOLES MS-0.3 x 3.0 mm DEEP 15 9(GMARGIN) 15 15
470 430.08 (ACTIVE AREA) 3 8	14W T2X MOUNTING HOLSS MS 0.0 x 3.0 mm DEEP 19.0 (ALARCIN) 15.5 16.5
470 43008 (ACTIVE AREA)	14W T2X MOUNTING HOLSS MS 0.0 x 3.0 mm DEEP 19.0 (AVARCIN) 15.1 16.5
470 430.08 (ACTIVE AREA) 3 8	14W -72K MOUNTING HOUSE MS-02 X 3.0 mm DEEP 19-36AMARCIN) -15 -15 -15 -16.5
470 430.08 (ACTIVE AREA) 3 8	14W -2x MOUNTING HOLES MS 0.3 x 5.0 mm (EEP) 15 S(GAMACIN) 15 16.5 16.5
470 430.08 (ACTIVE AREA) 3 8	15 MOUNTING HOLES MS-03 x 3.0 mm DEEP 19 MOUNTING HOLES 15 MOUNTING HOLES MS-0.8 x 3.0 mm DEEP 22 MOUNTING HOLES MS-0.8 x 3.0 mm DEEP 23 MOUNTING HOLES MS-0.8 x 3.0 mm DEEP 22 MOUNTING HOLES MS-0.8 x 3.0 mm DEEP
ATO ASSOCIACTIVE AREA) **LINES FOR REFERENCE ONLY**	14W -2x MOUNTING HOLES MS 0.3 x 5.0 mm (EEP) 15 S(GAMACIN) 15 16.5 16.5
470 ATO	124W -22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 19 9GMARGIN 15 5 16.5 16.5 22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 22 MOUNTING HOLES 23 MOUNTING HOLES 24 MOUNTING HOLES 25 MOUNTING HOLES
ATO ASSOCIACTIVE AREA) **LINES FOR REFERENCE ONLY**	124W -22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 19 9GMARGIN 15 5 16.5 16.5 22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 22 MOUNTING HOLES 23 MOUNTING HOLES 24 MOUNTING HOLES 25 MOUNTING HOLES
470 430.08 (ACTIVE AREA) 430.08 (ACTIVE AREA) 388 4**LINES FOR REFERENCE ONL***	124W -22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 19 9GMARGIN 15 5 16.5 16.5 22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 22 MOUNTING HOLES MS-03 X 5.0 mm DEEP 22 MOUNTING HOLES 23 MOUNTING HOLES 24 MOUNTING HOLES 25 MOUNTING HOLES
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470 430.08 (ACTIVE AREA) 430.08 (ACTIVE AREA) 3 8 410 420 430.08 (ACTIVE AREA)	15 MOUNTING HOLES MO-0.8 X 5.0 mm DEEP 15 MOUNTING HOLES MO-0.8 X 5.0 mm DEEP 22 MOUNTING HOLES MO-0.8 X 5.0 mm DEEP 23 MOUNTING HOLES MO-0.8 X 5.0 mm DEEP This MALES 0.0 mm DEEP
470 430.08 (ACTIVE AREA) 470 430.08 (ACTIVE AREA) 38 88 **LANES FOR REFERENCE ONLY** 69.25 22.206.05 240.6 231	19 SOLARION THO HOLES MS-0.8 X.5.0 mm DEEP 19 SOLARION THO HOLES MS-0.8 X.5.0 mm DEEP 2x MOUNTING HOLES MS-0.8 X.5.0 mm DEEP 2x MOUNTING HOLES MS-0.8 X.5.0 mm DEEP