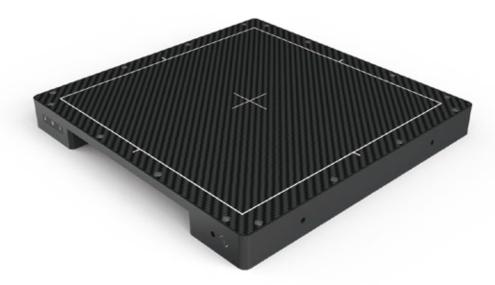
## Shark2323FDM



## IGZO X-ray flat panel detector



## **Key Features**

- Embedded image calibration feature for easy integration
- Pixel size 148 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)
- Cost saving

Shark2323FDM is a 23 x 23 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. Shark2323FDM 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 C-arm systems, image intensifier replacement and upgrade.

**Technical Specifications** 

Technology	
Sensor	IGZO
Scintillator	CSI
Active Area	227 x 227 mm
Pixel Matrix Pixel Pitch	1536 x 1536
AD Conversion	148 µm 16 bits
	10 003
Interface	10C February
Data Interface Exposure Control	10G Ethernet Pulse Sync In / Pulse Sync Out
Work Mode	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	3.37 lp/mm
Energy Range	40~160 KV
Lag	0.8% @ 1st frame
Dynamic Range	≥88dB
Sensitivity	740 lsb/uGy
SNR	50 dB @ (20000lsb)
MTF	70% @ (1 lp/mm)
	42% @ (2 lp/mm)
DQE (2uGy)	23% @ (3 lp/mm) 68% @ (0 lp/mm)
DQL (ZUOY)	43% @ (1 lp/mm)
	28% @ (2 lp/mm)
Mechanical	
	200 205 20
Dimension(H x W x D) Weight	268 x 265 x 28 mm 2.8 Kg
Sensor Protection Material	Carbon Fiber
Housing Material	Aluminum Alloy
Environmental	
Temperature Range	10. 25°C (
Humidity	10~35°C (operating); -10~50°C (storage) 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	50/60 Hz
Consumption	10 W
82 - 82	
4	4
2×MOUNTING HOLES M5-0,8×4mm DEEP	
268.2	28
MARGÍN 227.3(ACTIVE AERA)	14 4×MOUNTING HOLES 16 MS-0.8×8mm DEEP
	6 0 0 0
0 N N N N N N N N N N N N N N N N N N N	
P WARRIN	
002	
3 0	
265 227:3ACTIVE AERA	
MACILI 78	
5	— 2×MOUNTING HOLES M5-0.8×4mm DEEP
© 2273	
© 2273	
	9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CHASSIS GROUND MS-0.89-4mm DEEP THREADED HOLE  31	14 152 6
CHASSIS GROUND MS-0.89-4mm DEEP THREADED HOLE	