Shark4343FDM

IGZO X-ray flat panel detector

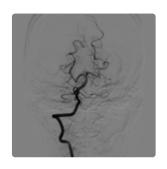


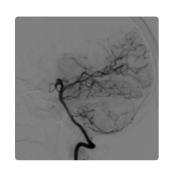


Key Features

- •Pixel pitch 140 μm
- •Low-noise, excellent dynamic image even at a low dose
- •High speed without image delay
- •The frame rate 40 fps
- Direct deposition Cesium Iodide (CsI) Scintillator effectively reduces light scattering between pixels

Shark4343FDM 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

& 86-021-54849770

| Technology | |
|--|---|
| | 1670 |
| 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 | 40 fps (1×1) |
| Operating System | Windows7 / Windows10 OS 32 bits or 64 bits |
| Technical Performance | |
| Resolution | 3.5 lp/mm |
| | 40~160 KV |
| Energy Range | |
| 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) |
| 242 (200y) | 42% @ (1 lp/mm) |
| | |
| | 28% @ (2 lp/mm) |
| Mechanical | |
| Dimension(H x W x D) | 470 x 470 x 32.5 mm |
| Weight | 9.5 Kg |
| Sensor Protection Material | Carbon Fiber |
| | Aluminum Alloy |
| Housing Material | / worth tarry may |
| 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 | _ |
| Dust and Water Resistant | 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 | 20W |
| 91.64 ⁴⁷ | 91.64 _ |
| | 21.09 |
| <u></u> | |
| | 2X MOUNTING HOLES M5-0.8 X-5.0 mm DEEP |
| L- 470 | 1 |
| 430.08 (ACTIVE AREA) | 20 = 32.51 (1) -5.5 |
| → + + + + + + + + + + + + + + + + + + + | |
| 1 4 1 1 | |
| | - |
| , | |
| - | • • |
| | |
| Lea Lea | |
| 20.08 (ACTOVE ASSESS) | |
| | |
| da | |
| | |
| . | |
| [| |
| \ | |
| \ | 1 / 5 |
| \ <u> </u> | 551 3 55 |
| | 5.54 |
| 2X MOUNTING HOLES | 2X MOLINTING HOLES |
| 2X MOUNTING HOLES MS-0.8 X 5.0 mm DEEP | 2X MOUNTING HOLES —/ M5-0.8 X 5.0 mm DEEP —4X MOUNTING HOLES |
| 2X MOUNTING HOLES MS-0.8 X S.0 mm DEEP MOUNTING HOLES MS-0.8 X S.0 mm DEEP | 2X MOUNTING HOLES — |
| MOUNTING HOLES — MS-0.8 X 5.0 mm DEEP | 2X MOUNTING HOLES —/ M5-0.8 X 5.0 mm DEEP —/4X MOUNTING HOLES |
| MOUNTING HOLES — M5-0.8 X 5.0 mm DEEP | 2X MOUNTING HOLES —/ M5-0.8 X 5.0 mm DEEP —/4X MOUNTING HOLES |
| MOUNTING HOLES MS-0.8 X 5.0 mm DEEP | 2X MOUNTING HOLES —/ M5-0.8 X 5.0 mm DEEP —4X MOUNTING HOLES |

www.haobo-imaging.com

• Room 701, Building 1, No. 760, Xinjun Ring Road, Minhang District, Shanghai