## X-Panel 4343a FOM-TG

Detection Technology

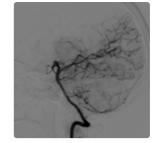
## a-Si X-ray flat panel detector



## **Key Features**

- •Pixel size 140 µm
- •Low-noise, excellent dynamic image even at a low dose
- High speed without image delay
- •The frame rate of Max. 24 fps (1x1)
- Direct deposition Cesium Iodide (CsI) Scintillator effectively reduces light scattering between pixels

X-Panel 4343a FOM-TG is a 43 x 43cm fixed type, dynamic flat panel detector based on a-Si technology. The advanced a-Si TFT 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. X-Panel 4343a FOM-TG structural design effectively reduces the bending radius of the detector outlet, shortening the wiring space for easy installation and integration of systems. It is an optimal solution for digital fluoroscopy, dynamic DR, and DSA angiography.



## **Technical Specifications**

| Technology  |   |
|---|---|
| Sensor  | a-si  |
| Scintillator  | Csl / GOS   |
| Active Area   | 430 x 430 mm  |
| Pixel Matrix  | 3072 × 3072   |
| Pixel Pitch   | 140 µm  |
| AD Conversion   | 16 bits   |
|   | 10 013  |
| 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   | 24 fps (1x1)  |
| 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   | ≥86dB   |
| Sensitivity   | 620 lsb/uGy   |
| SNR   | 49 dB @ (20000lsb)  |
| MTF   | 72% @ (1 lp/mm)   |
|   | 44% @ (2 lp/mm)   |
|   | 25% @ (3 lp/mm)   |
| DQE (2uGy)  | 66% @ (0 lp/mm)   |
|   | 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  |
| Housing Material  | Aluminum Alloy  |
|   | ,   |
| Environmental   |   |
| Temperature Range   | 10~35°C (operating); -10~50°C (storage)   |
| Humidity  | 30~70% RH (non-condensing)  |
| Vibration   | IEC 60068-2-6 Operation: 0.7G, 10-150Hz   |
| Shock   | IEC 60068-2-27 Operation: 2G, duration 11ms   |
| Dust and Water Resistant  | IPX0  |
| Power   |   |
| Supply  | 100~240 VAC   |
|   |   |
| Frequency   | 50/60 Hz  |
| Frequency Consumption   | 50/60 Hz<br>30W   |
|   | 30W   |
| Consumption   |   |
| Consumption   | 30W   |
| Consumption   | 30W   |
| Consumption 91.64 | 30W  91.64  2X MOUNTING HOLES M5-0.8 X 5.0 mm DEEP  |
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| 91.64 470 430.08(ACTIVE AREA)   | 30W  91.64  2X MOUNTING HOLES M5-0.8 X 5.0 mm DEEP  |
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| Consumption  91.64  470  430.08(ACTIVE AREA)  | 30W  2X MOUNTING HOLES M5-0.8 X 5.0 mm DEEP  20  32.5  4  5.5  4  15  |
| Consumption  91.64  470  430.08(ACTIVE AREA)  | 30W  2X MOUNTING HOLES M5-0.8 X 5.0 mm DEEP  20  32.5  15  15  15  15  15  15  15  15  16  17  17  18  18  18  18  18  18  18  18   |
| Consumption  91.64  470  430.08(ACTIVE AREA)  | 30W  2X MOUNTING HOLES MS-0.8 X 5.0 mm DEEP  20  32.5  27  37  47  5.5  48  5.5  68  68  68  68  68  68  68  68  68  6 |
| Consumption  91.64  470  430.08(ACTIVE AREA)  | 30W  2X MOUNTING HOLES M5-0.8 X 5.0 mm DEEP  20  32.5  15  17  15  17  17  18  170  3150  35.5  |
| Consumption  91.64  470  430.08(ACTIVE AREA)  | 30W  2X MOUNTING HOLES MS-0.8 X 5.0 mm DEEP  20 32.5  |
| 2X MOUNTING HOLES M5-0.8 X S.0 mm DEEP MOUNTING HOLES MOUNTING HOLES  | 30W  2X MOUNTING HOLES MS-0.8 X 5.0 mm DEEP  20  32.5  15  17  17  18  170  3150  35.5  |
| 2X MOUNTING HOLES M5-0.8 X 5.0 mm DEEP MOUNTING HOLES M5-0.8 X 5.0 mm DEEP  | 30W  2X MOUNTING HOLES MS-0.8 X 5.0 mm DEEP  20 32.5  |
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