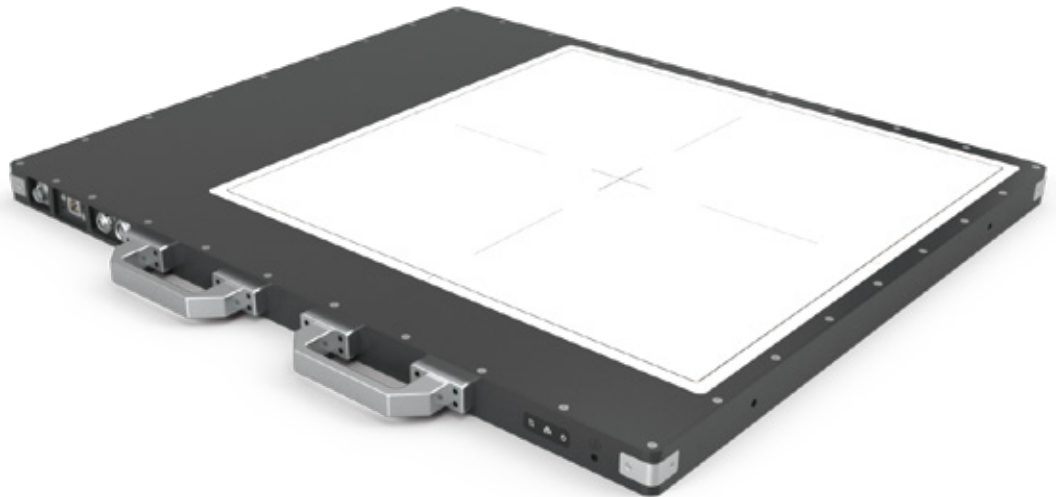


X-Panel 4343a FQI-XH

a-Si X-ray flat panel detector



Key Features

- The frame rate of Max. 8 fps (1x1) and Max. 15 fps (2x2)
- Pixel pitch 100 μm
- Ingress Protection rating of IP65
- 16MV high-energy protection design
- Direct evaporation coupled Cesium Iodide (CsI) Scintillator effectively reduces light scattering between pixels

X-Panel 4343a FQI-XH is a 43 x 43 cm fixed type, amorphous silicon, dynamic flat panel detector. It features excellent sensitivity and high dynamic range modes, the structural epitaxial radiation shield design offers user flexibility, and external protection. The 16MV high-energy is an optimal solution in industrial high-energy non-destructive testing (NDT) applications.

Applications



Technical Specifications

| Technology | |
|----------------------------|---|
| Sensor | a-Si |
| Scintillator | CsI / GOS |
| Active Area | 430 x 430 mm |
| Pixel Matrix | 4288 x 4288 |
| Pixel Pitch | 100 μ m |
| AD Conversion | 16 bits |
| Interface | |
| Data Interface | Optical Fiber |
| Exposure Control | Pulse Sync In / Pulse Sync Out |
| Work Mode | Software Mode / HVG Sync Mode / FPD Sync Mode |
| Frame Speed | 8fps (1x1) / 16fps (2x2) |
| Operating System | Windows7 / Windows10 OS 32 bits or 64 bits |
| Technical Performance | |
| Resolution | 5.0 lp/mm |
| Energy Range | \leq 16 MV |
| Lag | 0.8% @ 1st frame |
| Dynamic Range | \geq 76 dB |
| Sensitivity | 360 lsb/uGy |
| SNR | 47 dB @ (2000lsb) |
| MTF | 75% @ (1 lp/mm) 48% @ (2 lp/mm) 29% @ (3 lp/mm) |
| DQE (2uGy) | 64% @ (0 lp/mm) 38% @ (1 lp/mm) 21% @ (2 lp/mm) |
| Mechanical | |
| Dimension(H x W x D) | 630 x 540 x 30 mm |
| Weight | 15.1 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 60068-2-64 Operation: 1G, 5-500Hz |
| Shock | IEC 60068-2-27 Operation: 2G, duration 11ms |
| Dust and Water Resistant | IP65 |
| Power | |
| Supply | 100~240 VAC |
| Frequency | 50/60 Hz |
| Consumption | 24 W |

