# X-Panel 4343a FSI

Detection Technology

**a-Si X-ray flat panel detector**

## Key Features

- Pixel pitch 140 μm
- Active Area 430×430mm
- Image Acquisition Time ≤1s
- High dynamic range and a long lifetime among other benefits

X-Panel 4343a FSI is a fixed type and low noise X-ray flat panel detector. It is based on amorphous silicon (a-Si) technology that features a high dynamic range and a long lifetime among other benefits. X-Panel 4343a FSI has good image quality and a large dynamic range. Furthermore, it comes with multiple gain modes, that make it compatible with both high sensitivity and large dynamic range requirements. Optimized for industrial component counting, casting, pipe welding applications.

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# Technical Specifications

| | |
|---|---|
| **Technology** | |
| Sensor | a-Si |
| Scintillator | GOS / CsI |
| Active Area | 430 x 430 mm |
| Pixel Matrix | 3072 x 3072 |
| Pixel Pitch | 140 μm |
| AD Conversion | 16 bits |
| **Interface** | |
| Data Interface | Gigabit Ethernet |
| Exposure Control | Pulse Sync In / Pulse Sync Out |
| Work Mode | Software Mode / HVG Trigger Mode / AED Trigger Mode |
| Image Acquisition Time | ≤1 s |
| Operating System | Windows7 / Windows10 OS 32 bits or 64 bits |
| **Technical Performance** | |
| Resolution | 3.5 lp/mm |
| Energy Range | 40~160KV / 350KV |
| Lag | 0.8% @ 1st frame |
| Dynamic Range | ≥86dB |
| Sensitivity | 540 lsb/uGy |
| SNR | 48 dB @ (20000lsb) |
| MTF | 72% @ (1 lp/mm) |
| | 44% @ (2 lp/mm) |
| | 25% @ (3 lp/mm) |
| DQE（2uGy） | 64% @ (0 lp/mm) |
| | 41% @ (1 lp/mm) |
| | 28% @ (2 lp/mm) |
| **Mechanical** | |
| Dimension(H x W x D) | 470 x 470 x 34 mm |
| Weight | 9.5 kg / 13 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 | IPX0 |
| **Power** | |
| Supply | 100~240 VAC |
| Frequency | 50/60 Hz |
| Consumption | 13 W |