

X-Panel 3030z FPI-TG-X

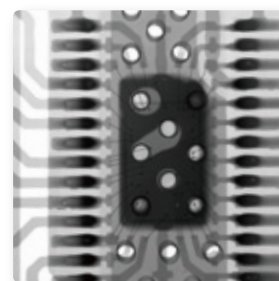
IGZO X-ray flat panel detector



Key Features

- Embedded image calibration feature for easy integration
- Pixel pitch 99 μm
- Low-noise, excellent dynamic image even at a low dose
- High speed without image delay
- Fast frame rate 15 fps (1x1)
- Direct deposition Cesium Iodide (CsI) Scintillator effectively reduces light scattering between pixels

X-Panel 3030z FPI-TG-X is a 30 x 30 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. X-Panel 3030z FPI-TG-X 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 electronics inspection, lithium battery inspection and industrial CT .



Technical Specifications

| Technology | |
|----------------------------|---|
| Sensor | IGZO |
| Scintillator | CsI |
| Active Area | 304 x 304 mm |
| Pixel Matrix | 3072 x 3072 |
| Pixel Pitch | 99 μ m |
| 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 | 15 fps (1x1) / 30 fps (2x2) |
| Operating System | Windows7 / Windows10 OS 32 bits or 64 bits |
| Technical Performance | |
| Resolution | 5.0 lp/mm |
| Energy Range | 40~160 KV / 350 KV |
| 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) | 66% @ (0 lp/mm) 38% @ (1 lp/mm) 21% @ (2 lp/mm) |
| Mechanical | |
| Dimension(H x W x D) | 344 x 341 x 39 mm |
| Weight | 6.8 Kg / 11.3 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 | 22 W |

