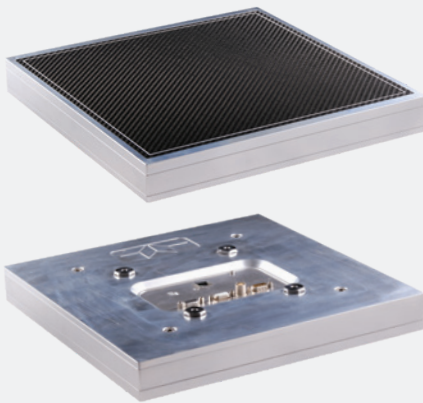


AXIOS-3030 HIGH PERFORMANCE VALUE DETECTOR

High Speed IGZO Flat X-Ray Detector for Fluoroscopy



KEY FEATURES

- Best in class high speed and artifact free image quality
- High performance IGZO TFT sensor
- 146 μm pixel pitch
- 44 fps at full resolution
- 88 fps in 2x2 binned mode
- Programmable ROI
- High thermal stability
- Radiation hard sensor
- Support for gain-, offset- and defect pixel correction
- NBASE-T data interface (compatible to GigE)

TYPICAL FLUOROSCOPY APPLICATIONS

- Orthopedic surgery
- Pain management
- Cardiac and Vascular procedures
- Neuro procedures
- Skull/ENT

TYPICAL SYSTEM CONFIGURATIONS

- Cath Lab
- Mobile C-arm
- Mini C-arm
- O-arm
- G-arm

Axios-3030 IGZO X-Ray Detectors: Better Images, Lower Dose, Lower Cost

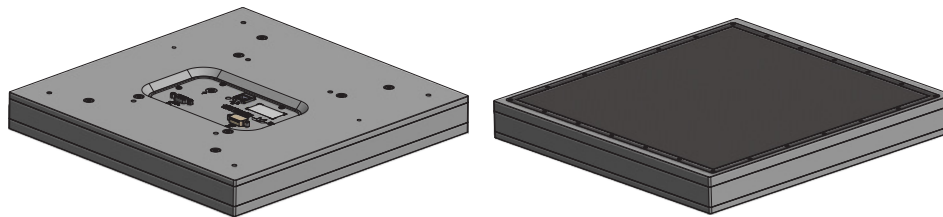
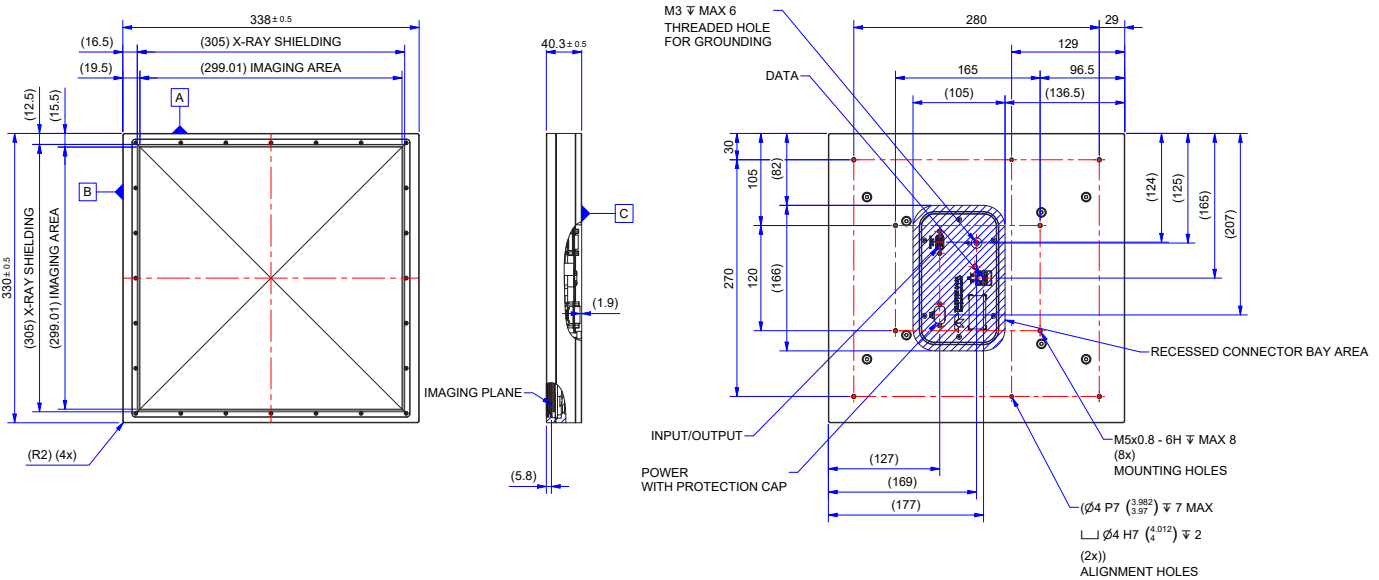
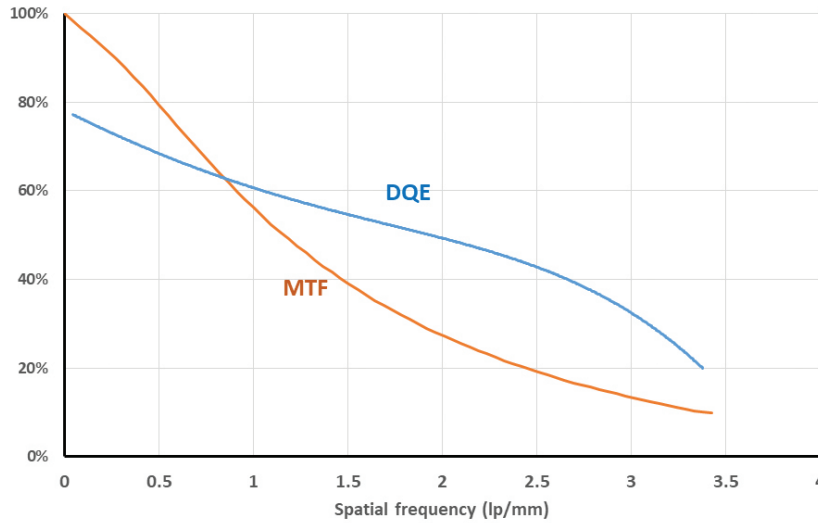
Teledyne DALSA, a worldwide leader in high performance X-ray imaging is introducing a new product line of high performance dynamic detectors, based on innovative IGZO sensor technology. The novel 30 x 30 cm detector is designed to address the very demanding needs of the Surgery and Cardio-Vascular applications at much lower cost, targeting to replace the image intensified cameras.

The Axios-3030 IGZO detector exceeds the current industry benchmarks in amorphous silicon and the new ones in IGZO technologies by providing higher speed and DQE at low dose, lower lag and increased signal-to-noise ratio. The proprietary technology powering this detector provides artifact free images enabling easy integration. The high thermal stability at operational conditions assures efficient workflow with less calibrations.

SPECIFICATIONS

| Parameter | Preliminary Specifications @ RQA5 |
|---|--|
| Sensor Technology | IGZO TFT with photodiode |
| Scintillator | Medical grade columnar CsI |
| Pixel Pitch | 146 μm |
| Active Area | 299*299 mm ² |
| Resolution | 2048*2048 pixels |
| Binning Support | 1 x 1/2 x 2 |
| Saturation Dose @ high/low gain | 3 μG /55 μGy |
| MTF @ 1, 2, 3 lp/mm | 56, 27, 13% |
| DQE @ 0, 1, 2 lp/mm (high dose @ 9 μGy) | 72, 56, 44% |
| DQE @ 0 lp/mm (low dose @ 10 nGy) | 70% |
| ADC Conversion | 16 bit |
| Data Interface | NBASE-T |
| Trigger Modes | Internal (continuous) or External (pulsed) |
| Frame Rate | |
| • 1x1, pulsed mode @ 18 ms X-Ray window | 30 fps |
| • 1x1, continuous mode | 44 fps |
| • 2x2, pulsed mode @ 18 ms X-Ray window | 38 fps |
| • 2x2, continuous mode | 88 fps |
| ROI Readout | Programmable |
| Image Lag (@ 0.1s) | 1% |
| Life Time Dose | 2000 Gy |
| X-Ray Energy Range | 15-150 kV |
| Power Consumption (operational) | <24 W |
| Dimensions (L x W x H) | 338 x 330 x 40.3 mm |
| Weight | 8.9 kg |

SPECIFICATIONS



FOR MORE INFORMATION CONTACT:

AMERICAS Waterloo, ON | +1 519-886-6000 | sales.sensors@teledynedalsa.com
 EUROPE Eindhoven, The Netherlands | +31 40-259-9000 | sales.sensors@teledynedalsa.com
 ASIA PACIFIC Tokyo, Japan | +81 3-5960-6353 | sales.sensors@teledynedalsa.com
 Shanghai, China | +86 21-3368-0027 | sales.sensors@teledynedalsa.com

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