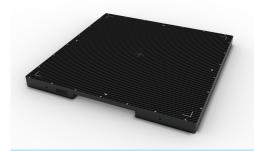


Shark4343FPI Fixed Type X Ray Detector



Key Features

Pixel Pitch: 140 µm
Pixel Matrix: 3072 x 3072
ADC: 16-bit
Gain Stage: Multi-Gain
Scintillator: CSI/GOS
Water Proof: IPX0
Interface: Optical Fiber

High voltage generator

Power

Calibration: Firmware

Application

- Medical
- Industry
- Veterinary
- Research

Shark4343FPI X Ray Detector

Shark4343FPI production is a fixed type and low noise x ray flat panel detector based on Indium Gallium Zinc Oxide technology. IGZO technology based detector owns many advantages that are unavailable with other technology, Shark4343FPI production takes a high image quality, frame speed, and a large dynamic range, also Shark4343FPI possesses multi-gain stage, this function makes it possible that the detector can both be suitable for high sensitivity and large dynamic range requirements. Based on above characteristics, Shark4343FPI detector can be widely used in medical, industrial, veterinary, and research application area.

Key features for IGZO technology:

◆ High frame speed

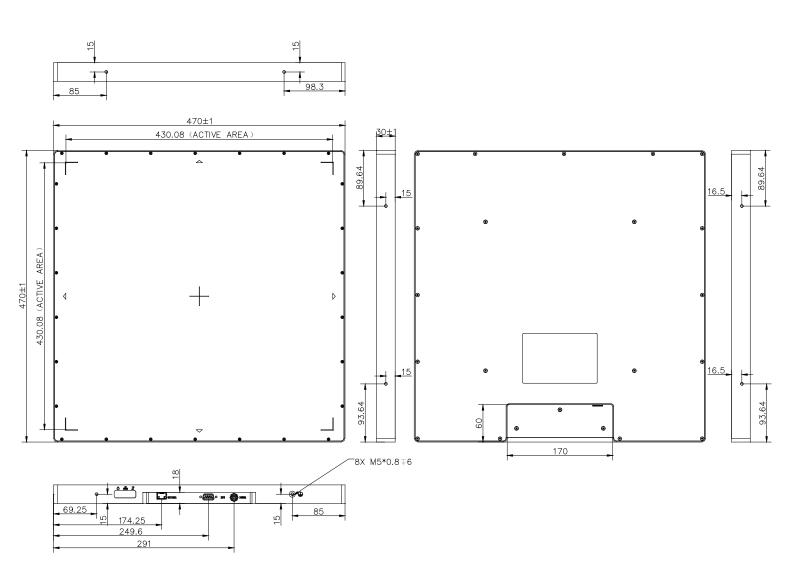
CE (Europe)

◆ High image quality

Technology	
Sensor Scintillator Active Area Pixel Matrix Pixel Pitch AD Conversion	IGZO CSI / GOS 430 x 430 mm 3072 x 3072 140 μm 16 bits
Interface	
Communication Interface Exposure Control	Optical Fiber Pulse Sync In (Edge or Level) / Pulse Sync Out (Edge or Level)
Mode Frame Speed Operating System	Software Mode / HVG Sync Mode / FPD Sync Mod 20fps Windows7 / Windows10 OS 32 bit or 64 bit
Technical Performance	
Resolution Energy Range Lag Dynamic Range Sensitivity SNR MTF	3.5 lp/mm 40~160 KV ≤0.5% 1st frame ≥88dB 560 lsb/uGy 50 dB @(20000lsb) 65% @(1 lp/mm) 35% @(2 lp/mm) 20% @(3 lp/mm)
DQE (2uGy)	60% @(0 lp/mm) 43% @(1 lp/mm) 28% @(2 lp/mm)
Mechanical	
Dimension(H x W x D) Weight Sensor Protection Material Housing Material	470 x 470x 30 mm 5 Kg Carbon Fiber Aluminum Alloy
Environmental	
Temperature Range Humidity Vibration Shock Dust and Water Resistant	10~35°C (operating); -10~50°C (storage) 30~70% RH (non-condensing) IEC/EN 60721-3 class 2M3 (10~150 Hz, 0.5 g) IEC/EN 60721-3 class 2M3 (11 ms, 2 g) IPX0
Power	
Supply Frequency Consumption	100~240 VAC 50/60 Hz 14 W
Regulatory	
CFDA (China) FDA (USA)	



Shark4343FPI Fixed Type X Ray Detector



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