

Whale3025FPI Fixed Type X Ray Detector



Key Features

Pixel Pitch: 140 µm
Pixel Matrix: 1792 x 2048
ADC: 16-bit
Gain Stage: Multi-Gain
Scintillator: CSI/GOS
Water Proof: IPX0
Interface: Optical Fiber

Uplical riber

High voltage generator

Power

Calibration: Software, FirmwareRadiation Hardness: ≥10000Gy

Application

- Medical
- Industry
- Veterinary
- Research

Whale3025FPI X Ray Detector

Whale3025FPI production is a fixed type and low noise x ray flat panel detector based on amorphous silicon technology. A-Si technology based detector owns many advantages that are unavailable with other technology, Whale3025FPI production takes a high image quality and a large dynamic range, also Whale3025FPI 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, Whale3025FPI detector can be widely used in medical, industrial, veterinary, and research application area.

Key features for amorphous silicon technology:

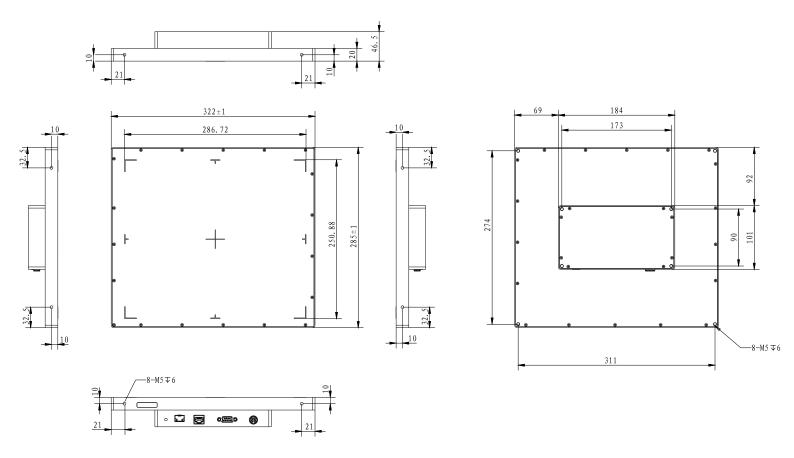
- ◆ Large dose dynamic range
- ◆ Long life time

FDA (USA) CE (Europe)

Technology	
Sensor	a-Si
Scintillator Active Area	CSI/GOS
Pixel Matrix	250 x 286 mm 1792x 2048
Pixel Pitch	140 μm
AD Conversion	16 bits
Interface	
Communication Interface	Optical Fiber
Exposure Control	Pulse Sync In (Edge or Level) / Pulse Sync Out (Edge or Level)
Mode	Software Mode / HVG Sync Mode / FPD Sync Mod
Frame Speed	20fps
Operating System	Windows7 / Windows10 OS 32 bit or 64 bit
Technical Performance	
Resolution	3.5 lp/mm
Energy Range	40~160 KV ≤1% 1st frame
Lag Dynamic Range	86 dB
Sensitivity	540 lsb/uGy
SNR	48dB @(20000lsb)
MTF	70% @(1 lp/mm)
	38% @(2 lp/mm)
DQE (2uGy)	21% @(3 lp/mm)
DQE (2uGy)	58% @(0 lp/mm) 41% @(1 lp/mm)
	25% @(2 lp/mm)
Mechanical	_ ` '
Dimension(H x W x D)	322 x 285x 46.5 mm
Weight	2.5 Kg
Sensor Protection Material	Carbon Fiber
Housing Material	Aluminum Alloy
Environmental Tamparatura Panga	10. 25°C (aparating), 10. 50°C (atazaga)
Temperature Range Humidity	10~35°C (operating); -10~50°C (storage) 30~70% RH (non-condensing)
Vibration	IEC/EN 60721-3 class 2M3 (10~150 Hz, 0.5 g)
Shock	IEC/EN 60721-3 class 2M3 (11 ms, 2 g)
Dust and Water Resistant	IPX0
Power	
Supply	100~240 VAC
Frequency	50/60 Hz
Consumption	10 W
Regulatory	
CFDA (China)	



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