

Whale3025FPI-M 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

High voltage generator

Power

Calibration: Software, FirmwareRadiation Hardness: ≥10000Gy

Application

- Medical
- Industry
- Veterinary
- Research

Whale3025FPI-M X Ray Detector

Whale3025FPI-M 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-M production takes a high image quality and a large dynamic range, also Whale3025FPI-M 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-M detector can be widely used in medical, industrial, veterinary, and research application area.

Key features for amorphous silicon technology:

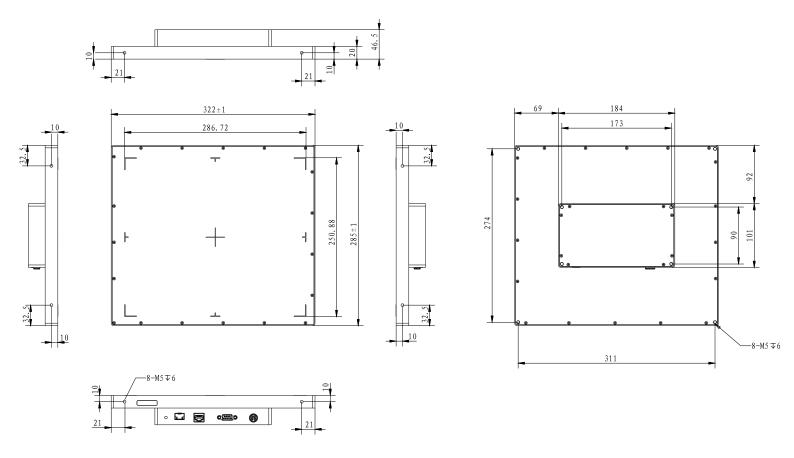
- ◆ Large dose dynamic range
- ◆ Long life time

FDA (USA) CE (Europe)

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Technology	
Sensor Scintillator	a-Si
Active Area	CSI/GOS
Pixel Matrix	250 x 286 mm
Pixel Pitch	1792x 2048
AD Conversion	140 μm 16 bits
Interface	TO DIES
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	40~350 KV
Lag	≤1% 1st frame
Dynamic Range	86 dB
Sensitivity SNR	540 lsb/uGy
MTF	48 dB @(20000lsb) 70% @(1 lp/mm)
IVITE	38% @(2 lp/mm)
	21% @(3 lp/mm)
DQE (2uGy)	58% @(0 lp/mm)
242 (200)/	41% @(1 lp/mm)
	25% @(2 lp/mm)
Mechanical	
Dimension(H x W x D)	322 x 285x 46.5 mm
Weight	4.8 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/EN 60721-3 class 2M3 (10~150 Hz, 0.5 g)
Shock Dust and Water Registers	IEC/EN 60721-3 class 2M3 (11 ms, 2 g)
Dust and Water Resistant Power	IPX0
Supply	100~240 VAC
Frequency	50/60 Hz
Consumption	10 W
Regulatory	10 **
CFDA (China)	
EDA (UDA)	



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