Whale4343FQI

a-Si X-ray flat panel detector





Key Features

- •Pixel pitch 140 μm
- Active Area 430×430mm
- The frame rate of Max. 12 fps (1x1), Max. 24 fps (2x2)
- High dynamic range and a long lifetime among other benefits

Whale4343FQI is a fixed type and low noise X-ray flat panel detector. It is based on amorphous silicon (a-Si) technology that features a high dynamic range and a long lifetime among other benefits. Whale4343FQI has good image quality and a large dynamic range. Furthermore, it comes with multiple gain modes, that make it compatible with both high sensitivity and large dynamic range requirements. Optimized for industrial CT, casting, pipe welding applications.





Technical Specifications

Technical Specifications	
Technology	
Sensor	a-Si
Scintillator	GOS / CSI
Active Area	430 x 430 mm
Pixel Matrix	3072 x 3072
Pixel Pitch	140 µm
AD Conversion	16 bits
	10 DICS
Interface	
Data Interface	Optical Fiber
Exposure Control	Pulse Sync In / Pulse Sync Out
Work Mode	Software Mode / HVG Sync Mode / FPD Sync Mode
Frame speed	12fps(1x1) / 24fps(2x2)
Operating System	Windows7 / Windows10 OS 32 bits or 64 bits
Technical Performance	
Resolution	3.5 lp/mm
Energy Range	40~160KV / 350KV
Lag	0.8% @ 1st frame
Dynamic Range	≥86dB
Sensitivity	620 lsb/uGy
SNR	49 dB @ (20000lsb)
MTF	72% @ (1 lp/mm)
	44% @ (2 lp/mm)
	25% @ (3 lp/mm)
DQE (2uGy)	66% @ (0 lp/mm)
	42% @ (1 lp/mm)
	28% @ (2 lp/mm)
Mechanical	
	470 y 470 y 24 mm
Dimension(H x W x D)	470 x 470 x 34 mm
Weight	9.5 kg / 13 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	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	14 W
85 5	
	2X MOUNTING HOLES M5.0.8 X 5.0 mm DEEP
470	MO-QUE A 5.01 mm user/ 19.96(MARGIN)
430.08 (ACTIVE AREA)	34
' '	830.64
	- 15
[165
AAREA)	
0 (VCLIVE)	
9 7 9 7 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
	- - 15
	• 165
	- T 388 388
the contract of the contract o	170
LINES FOR REFERENCE ONL 99 2.	2X MOUNTING HOLES MS 0.8 X 5.0 mm DEEP 320
	ZX MOUNTING HOLES M5-0.8 X S.0 mm DEEP
99.29	
<u>vi</u> 17425	
	AOUNTING HOLES 08 X 5.0 mm DEEP
DT \$86-021-54849770	ww.haobo-imaging.com Room 701, Building 1, No. 760, Xinjun Ring Road, Minhang District, Shanghai
00-021-34043110	▼ Ring Road, Minhang District, Shanghai