

Whale1818FPI



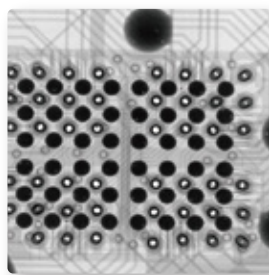
a-Si X-ray flat panel detector



Key Features

- 85 μm pixel pitch
- Excellent sensitivity and high dynamic range modes
- ROI area scan function can replace the linear array detector
- CSI scintillator offers lower dose and high image quality

Whale1818FPI is a 17.2 x 17.2 cm fixed type and low noise X-ray flat panel detector based on a-Si technology that features excellent sensitivity and high dynamic range modes among other benefits. Whale1818FPI has good image quality and a large dynamic range. It is an optimal solution in SMT and battery inspection .



Technical Specifications

Technology	
Sensor	A-Si
Scintillator	CSI / GOS
Active Area	172 x 172 mm
Pixel Matrix	2048 x 2048
Pixel Pitch	85 μ m
AD Conversion	16 bits
Interface	
Data Interface	10G Ethernet
Exposure Control	Pulse Sync In / Pulse Sync Out
Frame Speed	18fps (1x1)
Operating System	Windows7 / Windows10 OS 32 bits or 64 bits
Technical Performance	
Resolution	5.9 lp/mm
Energy Range	40~160KV
Lag	0.8% @ 1st frame
Dynamic Range	\geq 75 dB
Sensitivity	420 lsb/uGy
SNR	45 dB @ (20000lsb)
MTF	78% @ (1 lp/mm) 49% @ (2 lp/mm) 31% @ (3 lp/mm)
DQE (2uGy)	58% @ (0 lp/mm) 43% @ (1 lp/mm) 29% @ (2 lp/mm)
Mechanical	
Dimension(H x W x D)	219 x 219 x 40 mm
Weight	2.2 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	10 W

