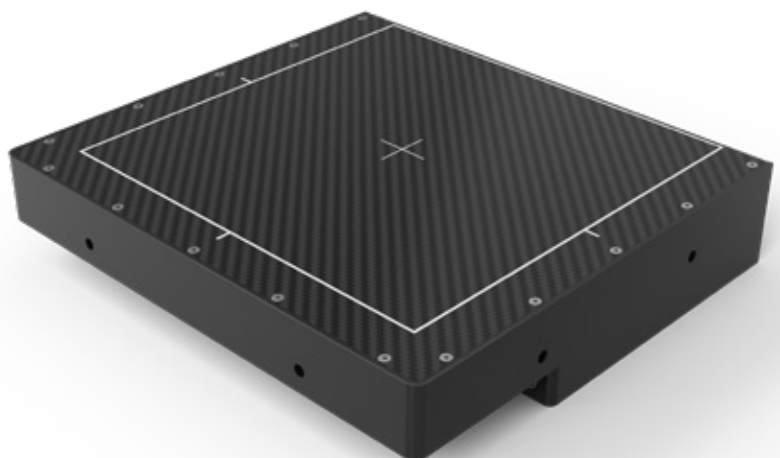
X-PANEL® 1515a FPI-M

a-Si-TFT X-ray flat panel detector



Key features

- Technology a-Si-TFT
- Pixel pitch 75 µm
- Pixel matrix 2000 x 2048
- Active area 150 x 153 mm
- Energy range 40~350 kV
- Interface 2.5G Ethernet
- Frame rate 20 fps (1x1)

Applications

- SMT and battery inspection

X-Panel 1515a FPI-M is a 15 x 15.3 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.

X-Panel 1515a FPI-M 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
Active area	150 x 153 mm
Pixel matrix	2000 x 2048
Pixel pitch	75 µm
ADC	16 bits

Interface	
Data interface	2.5G Ethernet
Exposure control	Pulse sync in/ Pulse sync out
Frame rate	20 fps (1x1)
Operating system	Windows10 / Windows11 OS 32 bits or 64 bits

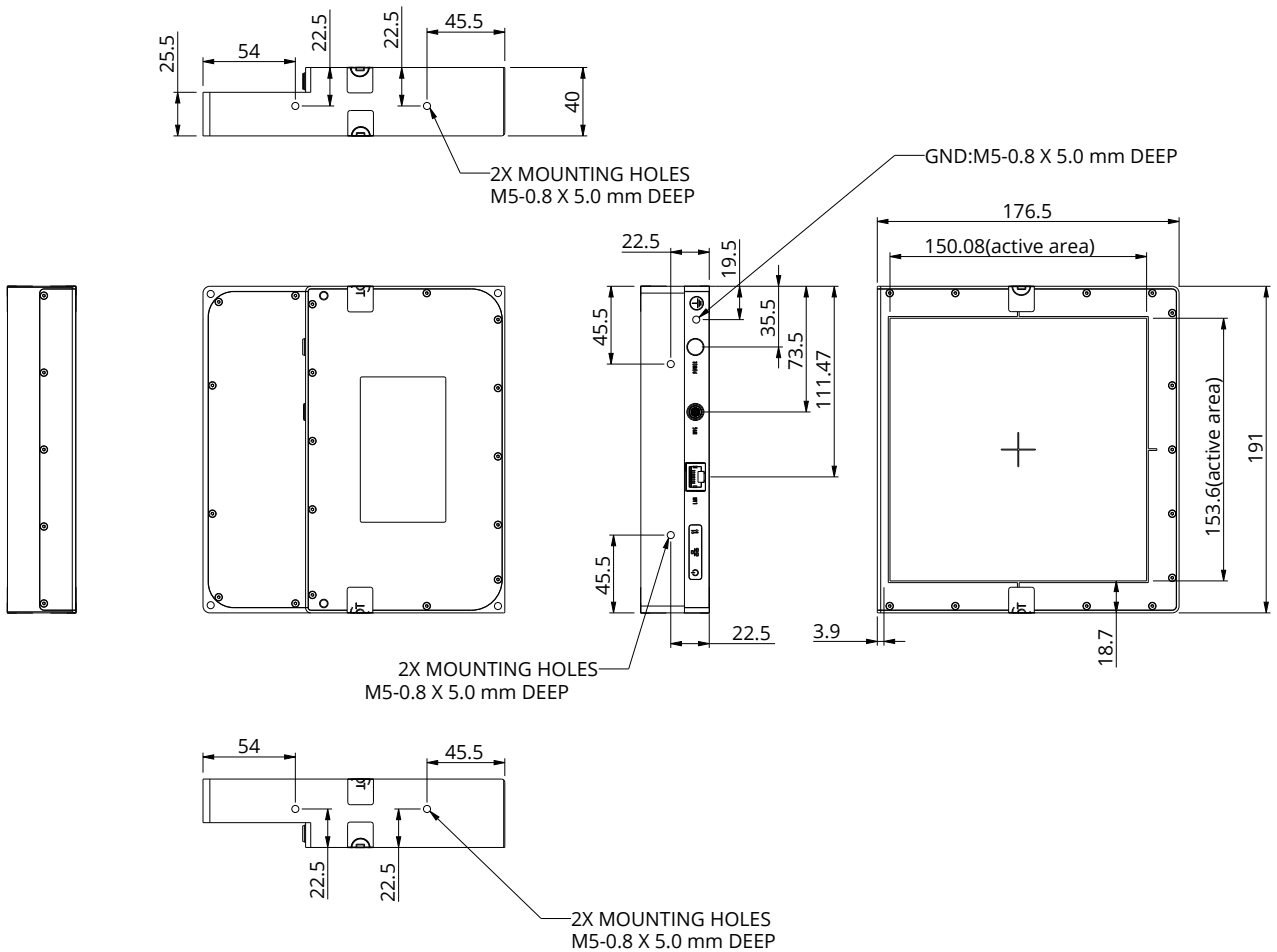
Mechanics	
Dimensions (H x W x D)	191 x 176.5 x 40 mm
Weight	3.5 Kg
Sensor protection	Carbon Fiber
Housing material	Aluminum Alloy

Power	
Supply	100~240 VAC
Frequency	50/60 Hz
Consumption	14 W

Environmental	
Temperature range	10~40°C (operating); -20~50°C (storage)
Humidity	30~75% RH (non-condensing)
Vibration	IEC 60068-2-64: 5-500Hz (1 Grms), X, Y, Z axis, each axis 30min (operating)
Shock	IEC 60068-2-27: 2G, duration 11ms , 200 shocks in 6 directions (operating)
IP rating	IPX0

Performance	
Resolution	6.5 lp/mm
Energy range	40~350KV
Dynamic range	≥78 dB

X-Panel 1515a FPI-M outline



Detection Technology