

X-PANEL[®] 1917 FDM

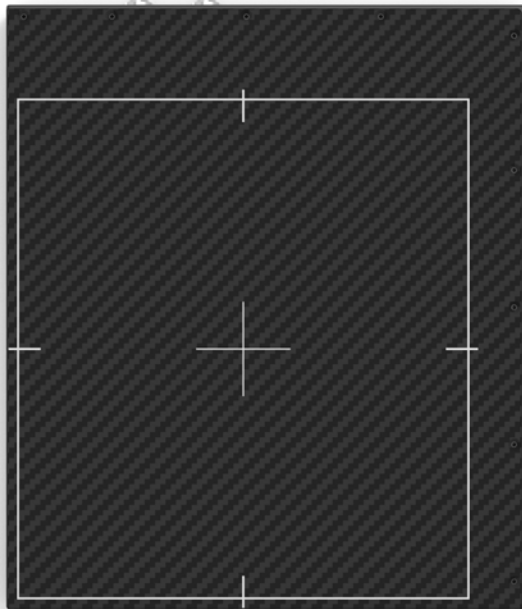


IGZO X-ray flat panel detector



Key features

- **Technology** IGZO-TFT
- **Pixel size** 120 μm
- **Pixel matrix** 1536 x 1386
- **Active area** 184 mm x 166 mm
- **Interface** 2.5G BASE-T
- **Frame rate** 40 fps
- **Applications** Dental CBCT and Panoramic Imaging



X-Panel 1917 FDM is a low noise X-ray flat panel detector optimized for dental CBCT application. It is based on Indium Gallium Zinc Oxide (IGZO) technology that supports a fast frame rate among other benefits.

X-Panel 1917 FDM has excellent image quality and large dynamic range. Furthermore, it comes with multiple gain modes, that make it compatible with both high sensitivity and large dynamic range requirements.

Technical Specifications

Technology	
Sensor	IGZO-TFT
Scintillator	CsI
Active area	184 mm x 166 mm
Pixel matrix	1536 x 1386
Pixel pitch	120 μ m
AD conversion	16 bits

Interface	
Communication interface	2.5G BASE-T
Exposure control	Pulse sync in (edge or level) / Pulse sync out (edge or level)
Modes	Software mode / HVG sync mode / FPD sync mode
Frame speed	40 fps (1x1) / >200 fps (6 mm pan strip)
Operating system	Windows7 / Windows10 OS 32 bits or 64 bits

Mechanical	
Dimensions (HxWxD)	193.2 mm x 225 mm x 15 mm
Weight	1.05 kg
Sensor protection material	Carbon fiber
Housing material	High strength aluminum alloy

Power	
Supply	100~240 VAC
Frequency	50/60 Hz
Consumption	10 W

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)
IP rating	IPX0

Technical performance	
Resolution	4.1 lp/mm
Energy range	40~160 kV
Lag	\leq 0.8% @ 1st frame
Dynamic range	\geq 88 dB
Sensitivity	520 lsb/ μ Gy
SNR	49 dB @ (20000 lsb)
MTF	75% @ (1 lp/mm)
	46% @ (2 lp/mm)
	27% @ (3 lp/mm)
DQE	58% @ (0 lp/mm)
	43% @ (1 lp/mm)
	30% @ (2 lp/mm)

Application	
Medical	Dental CBCT Dental Panoramic Imaging

X-Panel 1917 FDM outline

