

X-PANEL[®] 4343 WSM

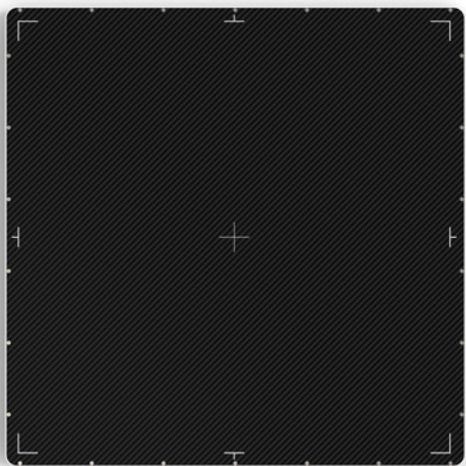


a-Si X-ray flat panel detector



Key features

- **Technology** a-Si-TFT
- **Pixel size** 140 μm
- **Pixel matrix** 3072 x 3072
- **Pixel area** 430 mm x 430 mm
- **Interface** 802.11a/b/g/n/ac
- **Weight** 4.1 kg
- **IP rating** IP54
- **Applications** Digital radiography
Mobile radiography



X-Panel 4343 WSM is a 43 x 43 cm wireless static X-ray flat panel detector, that is based on amorphous silicon (a-Si) technology. It features excellent sensitivity and high dynamic range modes, and wireless high-speed transmission to enhance end-user experience of digital radiographic systems.

X-Panel4343 WSM comes with thin and light weight mechanics, and long-lasting battery and online charging feature. It is dust and water resistant and meets the IP54 requirements.

The embedded storage function allows the detector to function without host storage. Furthermore, its embedded firmware image calibration speeds up software development in all required configurations.

Technical Specifications

Technology	
Sensor	a-Si-TFT
Scintillator	CsI
Active area	430 mm x 430 mm
Pixel matrix	3072 x 3072
Pixel pitch	140 μm
AD conversion	16 bits

Interface	
Communication interface	Wi-Fi / Gigabit Ethernet
Wireless mode	IEEE802.3 a/b/g/n/ac, 2x2 MIMO (2.4G / 5G)
STA / AP	AP / Client
Work modes	Software trigger / HVG trigger / AED trigger mode
Image acquisition time	≤2 s (Wireless) / ≤1 s (Gigabit Ethernet)
Operating system	Windows7 / Windows10 OS 32 bits or 64 bits

Mechanical	
Dimensions (HxWxD)	460 mm x 460 mm x 15 mm
Weight	4.0 kg
Sensor protection material	Carbon fiber
Housing material	Magnesium 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)
IP rating	IP54

Power	
Supply	100~240 VAC
Frequency	50/60 Hz
Battery	≥500 cycles
	≥4 hours (active mode)
	≥12 hours (standby mode)
Charging time	≤2.5 hours
Consumption	14 W

Technical performance	
Resolution	3.5 lp/mm
Energy range	40~160 kV
Lag	0.8% @ 1st frame
Dynamic range	≥86 dB
Sensitivity	540 lsb/μGy
SNR	48 dB @ (20000 lsb)
	72% @ (1 lp/mm)
MTF	44% @ (2 lp/mm)
	25% @ (3 lp/mm)
	64% @ (0 lp/mm)
DQE	41% @ (1 lp/mm)
	28% @ (2 lp/mm)

Application	
Medical	Digital radiography Mobile radiography

X-Panel 4343 WSM outline

