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#### MSLFP33 Portable X Ray Detector



#### **Key Features**

- Pixel Pitch: 140 µm
- Pixel Matrix: 3072X3072
- . ADC:
- Gain Stage: Multi-Gain •
- Scintillator: GOS/CSI
- Water Proof: IPX0
- Interface: Quick self-locking connector

16-bit

- Calibration: Software, Firmware
- Radiation Hardness: ≥10000Gy

#### Application

- Medical
- Industry 0
- . Veterinary
- Research

### MSLFP33 X Ray Detector

MSLFP33 production is a portable type and low noise x ray flat panel detector based on amorphous silicon technology. A-Si technology based detector owns many advantages that are unavailable with other technology, MSLFP33 production takes a high image quality and a large dynamic range, also MSLFP33 possesses multi-gain stage, this func-tion makes it possible that the detector can both be suitable for high sensi-tivity and large dynamic range requirements. Based on above characteris-tics, MSLFP33 detector can be widely used in medical, industrial vet-erinary, and research application area.

Key features for amorphous silicon technology:

- ◆ Large dose dynamic range
- ◆ Long life time

Taskaslası	
Technology Sensor	
Scintillator	A-Si GOS / CSI
Active Area	430 x 430 mm
Pixel Matrix	3072X3072
Pixel Pitch	140 μm
AD Conversion	16 bits
Interface	
Communication Interface	Gigabit Ethernet
Exposure Control	Trigger In(Edge or Level) / Trigger Out (Edge or Level)
Image Acquisition Time	≤1 seconds
Operating System	Windows7 / Windows10 OS 32 bit or 64 bit
Technical Performance	
Resolution	3.5 lp/mm
Energy Range	40~160 KV
Lag	<1% 1st frame
Dynamic Range	≥86dB
Sensitivity SNR	540 lsb/uGy 48dB @(20000lsb)
MTF	70% @(1 lp/mm)
	38% @(2 lp/mm)
	21% @(3 lp/mm)
DQE	58% @(0 lp/mm)
-	41% @(1 lp/mm)
	25% @(2 lp/mm)
Mechanical	
Dimension( $H \times W \times D$ )	460 x 460 x 15 mm
Weight	4.6 Kg
Sensor Protection Material Housing Material	Carbon Fiber High Strength Aluminum Alloy
Environmental	nigh Strength Adminuth Alloy
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

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