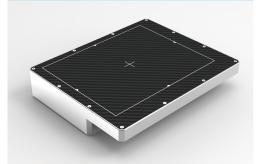


Whale1613FDM Fixed Type X Ray Detector



Key Features

Pixel Pitch: 125 µm
Pixel Matrix: 1024 x 1280
ADC: 16-bit
Gain Stage: Multi-Gain
Scintillator: CSI/GOS
Water Proof: IPX0

Interface: Gigabit Ethernet

High voltage generator

Power

Calibration: Software, FirmwareRadiation Hardness: ≥10000Gy

Application

- Medical
- Industry
- Veterinary
- Research

Whale1613FDM X Ray Detector

Whale1613FDM production is a fixed 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, Whale1613FDM production takes a high image quality and a large dynamic range, also Whale1613FDM possesses multi-gain stage, this function makes it possible that the detector can both be suitable for high sensitivity and large dynamic range requirements. Based on above characteristics, Whale1613FDM detector can be widely used in medical, industrial, veterinary, and research application area.

Key features for amorphous silicon technology:

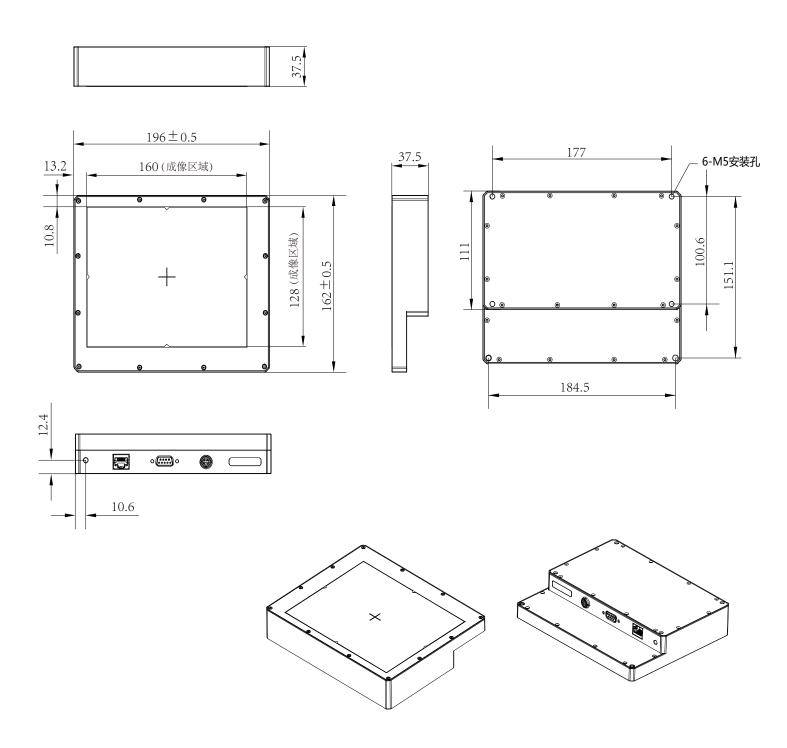
- ◆ Large dose dynamic range
- ◆ Long life time

FDA (USA) CE (Europe)

| Ta ala a al a au c | |
|----------------------------|--|
| Technology Sensor | - 0: |
| Scintillator | a-Si CSI/GOS |
| Active Area | 160 x 128 mm |
| Pixel Matrix | |
| Pixel Pitch | 1024x 1280 |
| AD Conversion | 125 µm 16 bits |
| Interface | TO DIES |
| Communication Interface | Gigabit Ethernet / Optical Fiber |
| Exposure Control | Pulse Sync In (Edge or Level) / Pulse Sync Out (Edge or Level) |
| Mode | Software Mode / HVG Sync Mode / FPD Sync Mod |
| Frame Speed | 30fps |
| Operating System | Windows7 / Windows10 OS 32 bit or 64 bit |
| Technical Performance | |
| Resolution | 4.0 lp/mm |
| Energy Range | 40~160 KV |
| Lag | < 1% 1st frame |
| Dynamic Range | ≥86 dB |
| Sensitivity | 460 lsb/uGy |
| SNR | 49 dB @(20000lsb) |
| MTF | 75% @(1 lp/mm) |
| | 41% @(2 lp/mm) |
| | 25% @(3 lp/mm) |
| DQE (2uGy) | 62% @(0 lp/mm) |
| | 45% @(1 lp/mm) |
| | 28% @(2 lp/mm) |
| Mechanical | |
| Dimension(H x W x D) | 196 x 162x 37.5 mm |
| Weight | 1.5 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 | 8 W |
| Regulatory | |
| CFDA (China) | |



Whale1613FDM Fixed Type X Ray Detector



Add: Room 701, Building 8, No. 760, Xinjun Ring Road, Minhang District, Shanghai Tel: 86-021-54849770

Web: www.haobo-imaging.com