Product Description

PaxScan 3030DX-I imagers provide industry leading image quality for industrial and security applications. The 3030DX-I is a 30 cm x 30 cm amorphous silicon flat panel detector with a 194 μm pixel pitch.

Amorphous silicon brings key advantages unmatched by other technologies, including:
- Radiation hardness >1MRad
- Wide input energy range
- Immunity from single photon events in the substrate
- Excellent low dose performance

Varex Imaging’s extensive industrial product line allows the OEM to easily integrate multiple panel sizes into their products through the Virtual CP software. This panel is offered with Gigabit Ethernet for data transmission.

Technical Specifications

- **Receptor Type**: Amorphous Silicon
- **Conversion Screen**: DRZ+, Integral columnar CsI:Tl
- **Pixel Area - Total**: 298mm (h) x 298mm (v) (11.7 x 11.7 in)
- **Pixel Matrix - Total**: 1,536 (h) x 1,536 (v)
- **Effective**: 1,516 (h) x 1,516 (v)
- **Pixel Pitch**: 194 μm
- **Limiting Resolution**: 2.58 lp/mm @ 15 fps (1 x 1)
  - 1.29 lp/mm @ 30 fps (2 x 2)
- **Quantum Limited Dose (2x2)**: 3.5 nGy/frame
- **Energy Range**: 40 - 225 kVp
- **Fill Factor**: 68%
- **Contrast Ratio**:
  - Large Area (120mm): < 1%
  - Small Area (10mm): < 7%
- **Scan Method**: Parallel
- **Data Output**: Gigabit Ethernet
- **A/D Conversion**: 16-bit
- **Cooling**: Passive

Mechanical

- **Weight**: 9.1 kg (19.8 lbs)
- **Housing Material**: Aluminum
- **Sensor Protection**: Carbon fiber and aluminum
- **Mounting Provisions**: Blind, threaded mounting holes on the back.

Image Acquisition Modes

- **Normal Fluoro**: 768 (h) x 768 (v) (2x2 binned)
- **Full Resolution**: 1,536 (h) x 1,536 (v)

Environmental

- **Temperature Limit**: 15 - 53°C (as reported by imager internal sensor)
- **Relative Humidity**: 10 - 90% Non-Condensing
- **Atmospheric Pressure**: 70 kPa - 106 kPa
- **Shock Tolerance**: 20G (any direction no power applied)

Regulatory

- **Canada**: CAN/CSA-C22.2 No. 61010-1
- **U.S.**: UL 61010-1
- **Europe**: EN 61326-1:2013

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Flat Panel Detector

Drawing for reference only
Dimensions are in Inches [mm]
Detector Characterization Charts in accordance with ASTM E2597-14 Standard Practice for the Manufacturing Characterization of Digital Detector Arrays

NOTE: SMTR, CS and Lag quality numbers all improve with higher frame rate.

**Full Resolution – 4pF Gain Setting CsI**

*Aluminum 6061*

*Inconel 718*

*Titanium 6Al4V*
Manufactured by Varex Imaging Corporation
Specifications subject to change without notice.

Note: All Varex Imaging Amorphous Silicon Receptors are designed to be integrated into a complete X-ray system by a qualified system integrator. The system integrator is responsible for obtaining FDA clearance for medical use.