

Flat Panel Detector



Receptor Type Amorphous Silicon

Product Description

The 4030DX is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 40 x 30cm $194\mu m$ -pixel amorphous silicon FPD and universal power supply. Excellent low-dose performance is achieved by combining Varex Imaging's proprietary readout electronics with a custom Cesium Iodide scintillator. A Windows® based application program and a communications command (DLL) library has also been developed to assist OEM customers tasked with developing their own system interface. This imager is intended for incorporation into a complete X-ray system by a qualified equipment manufacturer.

Technical Specifications

Receptor Type Amorphous smeon
Conversion Screen Integral columnar Csl:TI
Pixel Area - Total \dots 397mm (h) x 298mm (v) (15.6 x 11.7 in)
Pixel Matrix - Total
Pixel Pitch
Limiting Resolution 2.58 lp/mm @ 15 fps (1 x 1) 1.29 lp/mm @ 30 fps (2 x 2)
Image Quality (RQA5) (typical)
MTF (1x1) 1.0 lp/mm 50% 2.0 lp/mm 23%
DQE (1x1, Quantum-limited) 77% 0 lp/mm 54% 1.0 lp/mm 30%
Quantum-limited Dose (2x2)
Energy Range
Fill Factor
Lag
Scan Method Parallel
Data Output Gigabit Ethernet
A/D Conversion
Cooling Passive
Radiation Tolerance
Dynamic Range

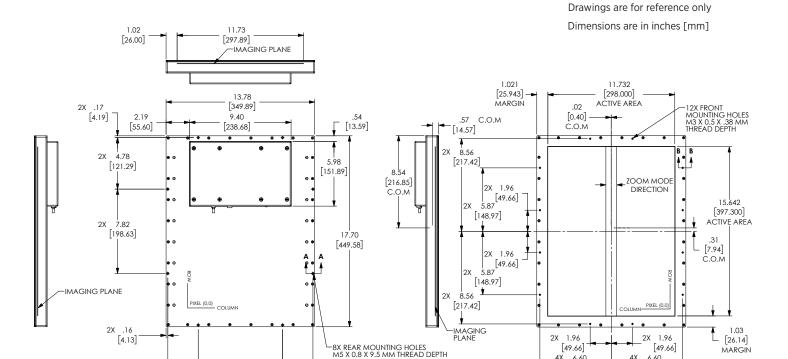
Power Requirements

Input voltage range
Nominal Power Consumption ¹
Peak Power Consumption ¹ (initialization)
Mechanical
Weight approx. 7.3 kg
Housing Material Aluminum
Sensor Protection Carbon fiber and aluminum
Mounting Provisions Blind, threaded mounting holes on the back.
Image Acquisition Modes
Normal Fluoro
Full Resolution
Environmental
Temperature Limit
Relative Humidity 10 - 90% Non-Condensing
Atmospheric Pressure
Shock Tolerance 20G (any direction no power applied)
Regulatory
U.S ANSI/AAMI ES 60601-1:2012
Canada CSA 22.2 No. 60601-1:14
EU IEC/EN 60601-1:2012

Note ¹ Power drop across supply cables not included



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2X 2.82 [71.50]

.31 [7.94]

7.82

[198.63]

DATA CONN

-LED



2X 2.82

2.19

[55.75]

[71.50]

POWER CONN.

CHASSIS GND 1X PEM BS-M5 X 0.8-2

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Manufactured by Varex Imaging Corporation Specifications subject to change without notice.

6.60

.10

[2.54]

.38

[9.53]

SECTION A-A SCALE 1:1

[167.64]

.15

[3.68]

6.60

[167.64]

SECTION B-B SCALE 1:1

.38

[9.53]

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.