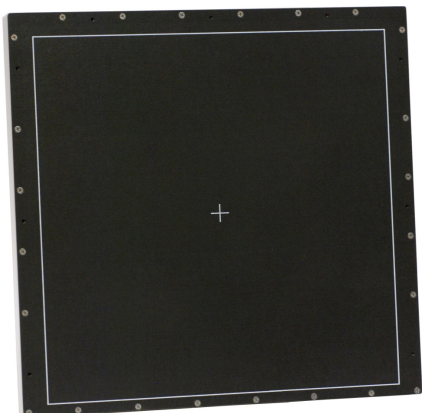


### Product Description



The PaxScan® 3030DX is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 30 x 30cm 194µm-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 Silicon                                          |
| Conversion Screen   | Integral columnar CsI:TI                                   |
| 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)<br>1.29 lp/mm @ 30 fps (2 x 2) |

### Image Quality (RQA5) (typical)

|                                |                       |
|--------------------------------|-----------------------|
| MTF (1x1)                      |                       |
| 1.0 lp/mm                      | 55%                   |
| 2.0 lp/mm                      | 25%                   |
| 2.58 lp/mm (Nyquist Frequency) | 16%                   |
| DQE (1x1, Quantum-limited)     |                       |
| 0 lp/mm                        | 77%                   |
| 1.0 lp/mm                      | 55%                   |
| 2.0 lp/mm                      | 30%                   |
| Quantum Limited Dose (2x2)     | 3.5 nGy/frame         |
| Energy Range                   | 40 - 150 kVp          |
| Fill Factor                    | 68%                   |
| Lag                            | <5% (first frame)     |
| Scan Method                    | Parallel              |
| Data Output                    | Gigabit Ethernet      |
| A/D Conversion                 | 16-bit                |
| Radiation Tolerance            | 2000 Gy (active area) |
| Dynamic Range                  | 94 dB std modes       |

### Power Requirements

|                                                      |                                                      |
|------------------------------------------------------|------------------------------------------------------|
| Input voltage range                                  | 21 V - 33 V<br>(measured at the input of the imager) |
| Nominal Power Consumption <sup>1</sup>               | 20 W                                                 |
| Peak Power Consumption <sup>1</sup> (initialization) | 25 W                                                 |

### Mechanical

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Weight              | approx. 5.6 kg panel<br>with Tungsten - 9.05 kg |
| 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<br>(as reported by imager internal sensor) |
| Relative Humidity (non-condensing) | 10% - 90%                                            |
| Atmospheric Pressure               | 70 kPa - 106 kPa                                     |
| Shock Tolerance                    | 20G (any direction no power applied)                 |

### Regulatory

|        |                              |
|--------|------------------------------|
| U.S.   | ANSI/AAMI ES60601-1:2005     |
| Canada | CAN/CSA C22.2 No. 60601-1:08 |
| EU     | IEC/EN 60601-1:2005          |

Note<sup>1</sup> - Power drop across supply cables is not included

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Drawing for reference only

Inches [mm]

