



#### **Product Description**

The 3020DXV-I 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 20cm 194µm-pixel amorphous silicon FPD. The 3020DXV-I combines excellent noise performance and a high radiation tolerance to work in industrial imaging applications. Interfacing to the 3020DXV-I is a simple task through the standard Gigabit Ethernet port. The developer's software package includes a "Virtual Command Processor" software interface that performs detector calibration, receptor set-up, image acquisition and image correction.

#### **Technical Specifications**

Receptor Type	Amorphous Silicon
Conversion Screen	DRZ+, Integral columnar CsI:TI
Pixel Area - Total 298mm	(h) x 199mm (v) (11.7 x 7.8 in)
Pixel Matrix - Total	
Pixel Pitch	194 μm
Limiting Resolution	. 2.58 lp/mm @ 20 fps (1 x 1) 1.29 lp/mm @ 40 fps (2 x 2)
Quantum-limited Dose (2x2) (1x1)	
Energy Range	40 - 225 kVp
Fill Factor	68%
Lag	2.5 Nominal (first frame)
Scan Method	Progressive
Data Output	Gigabit Ethernet
A/D Conversion	16-bit
Radiation Tolerance	10 kGy (active area)
Dynamic Range	94 dB std modes 108 dB DGS modes

### **Image Acquisition Modes**

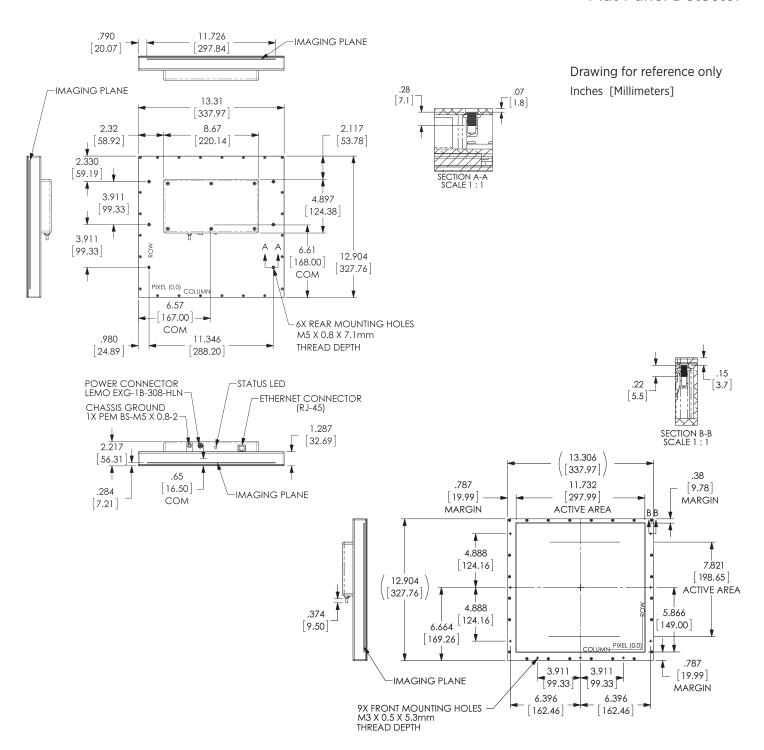
Normal Fluoro	
Full Resolution	

#### **Power Requirements**

Input voltage range
Nominal Power Consumption <sup>1</sup>
Peak Power Consumption¹ (initialization) 20 W
Mechanical
Weight approx. 8.6 kg panel
Housing Material Aluminum
Sensor Protection Carbon fiber and aluminum
Mounting Provisions $\dots$ Blind, threaded mounting holes on the back.
Environmental
Temperature Range - Operating
Temperature Range - Storage20°C - 70°C
Relative Humidity (Non-Condensing) 10% - 90%
Atmospheric Pressure
Shock Tolerance 20G (any direction no power applied)
Regulatory
U.S ANSI/AAMI ES60601-1:2012
Canada CAN/CSA C22.2 No. 60601-1:14
EU IEC/EN 60601-1:2012

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

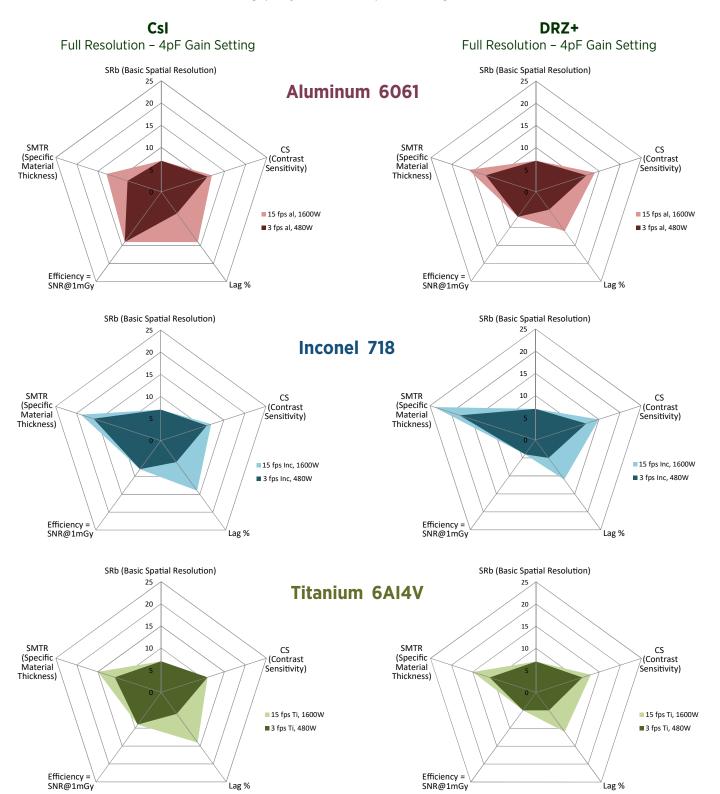






# Detector Characterization Charts in accordance with ASTM E2597-14 Standard Practice for the Manufacturing Characterization of Digital Detector Arrays

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



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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.