MV Imaging

KV Imaging

Product Description

The industrial 4343HE flat panel detector provides industry leading image quality for industrial and security applications. Varex Imaging's amorphous silicon-based detectors are the benchmark for radiography in industrial.

Key advantages include:
- Design for high dose applications > 1 MRad
- Wide energy range: 20 kV - 16 MV
- Internal shielding up to 225 kV
  Electronics are outside of the detector active area allowing the integrator to provide additional external shielding of the electronics for use above 225 kV.
- Gigabit Ethernet link to workstation
- Optimized MV imaging with standard geometry and kV imaging with reverse geometry

Technical Specifications

Receptor Type . . . . Amorphous Silicon

Conversion Screen . . . . DRZ+*

Pixel Area - Total . . . . 42.7cm (h) x 42.7cm (v) (16.8 x 16.8 in)

Pixel Matrix - Total . . . . 3,072 (h) x 3,072 (v)

Pixel Pitch . . . . 139 μm^2

Energy Range . . . . 20 kV - 16 MV

Fill Factor 64.3%

Data Output . . . . Gigabit Ethernet

Scan Method . . . . Progressive

A/D Conversion 16-bit

Frame Rate . . . . 4 fps (1x1), 15 fps (2x2)

Exposure Control . . . . User Sync input, Expose OK output

ViVA™

The software release includes ViVA™, a basic application for panel testing and calibration acquisition and viewing on an end-user workstation running Microsoft® Windows™. The developer's software package includes a "Virtual Command Processor" software interface that performs detector calibration, detector set-up, image acquisition, and image corrections. ViVA™ includes file type translators for .viv, .raw, .jpg, and .bmp file formats.

other scintillators available upon request

Power Requirements

Power Dissipation . . . . 25 watts

Power Supply/Adaptor . . . . 100-240 VAC, 47-63 Hz

Mechanical

Weight . . . . 14.6 kg (31 lbs.) panel

Housing Material . . . . Aluminum

Sensor Protection . . . . Carbon fiberplate (3.5mm) & aluminum (0.05)

Mounting Provisions . . Blind, threaded mounting holes on the back.

Environmental

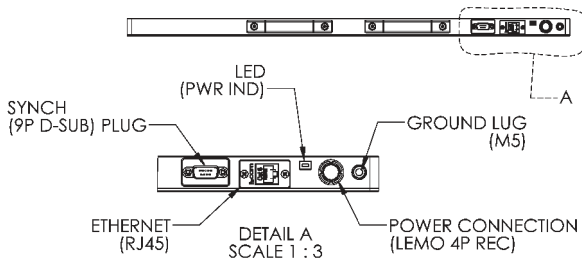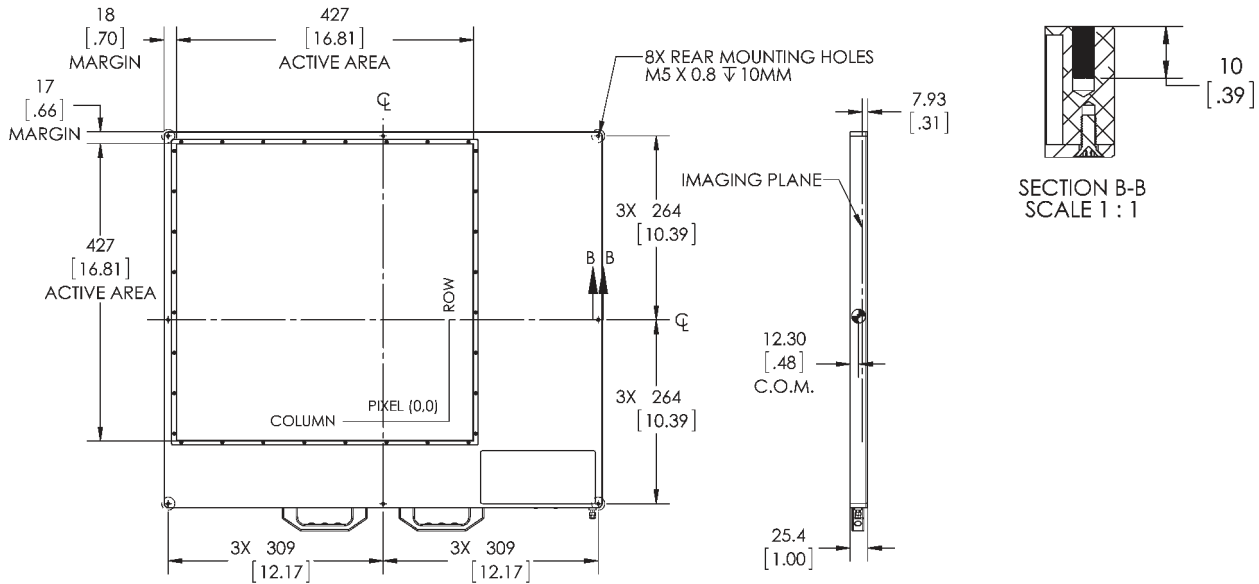Temperature Limit - Operating . . . . +10°C to +35°C (max.) (Ambient) -Storage . . . . -15°C to +50°C

Relative Humidity (Non-condensing)

Operating & Storage . . . . 10% - 90%

Atmospheric Pressure . . . . 70 kPa - 106 kPa

Regulatory

Canada . . . . CAN/CSA-C22.2 No. 61010-1

U.S. . . . . UL 61010-1

Europe . . . . EN 61010

Dimensions are for reference only

Dimensions are in mm (inches)

KV Imaging

SECTION B-B
SCALE 1 : 1

LED
(PWR IND)

SYNCH
(9P D-SUB) PLUG

GROUND LUG
(M5)

ETHERNET
(RJ45)

DETAIL A
SCALE 1 : 3

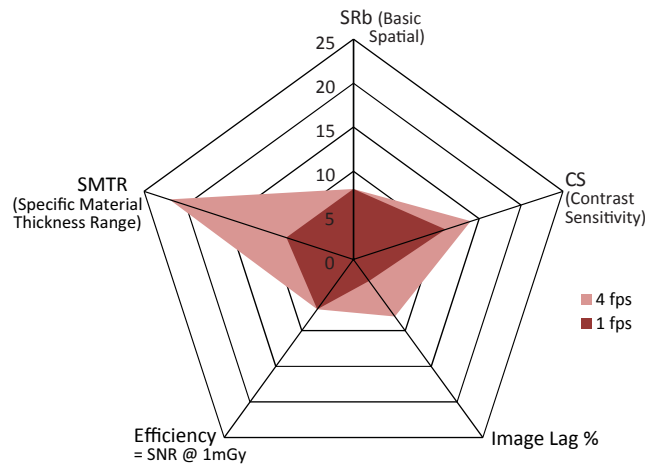POWER CONNECTION
(LEMO 4P REC)

MV Imaging
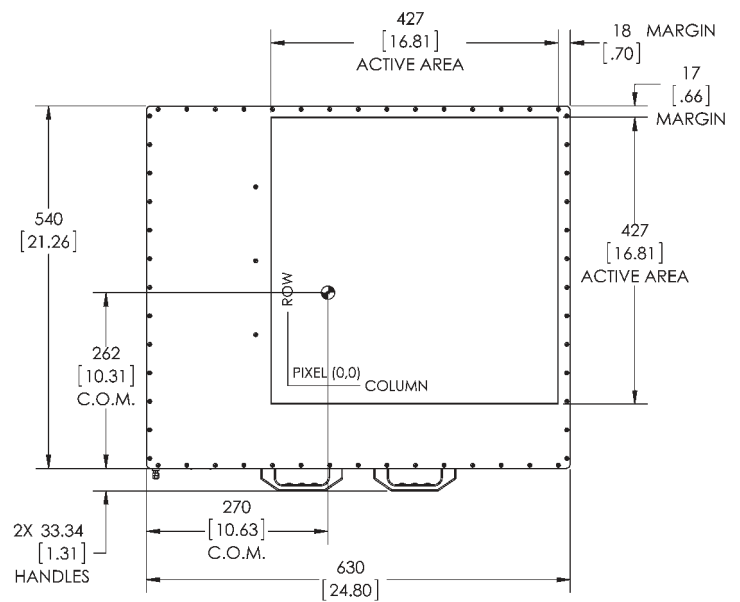
Detector Characterization Charts in accordance with ASTM E2597-14 Standard Practice for the Manufacturing Characterization of Digital Detector Arrays
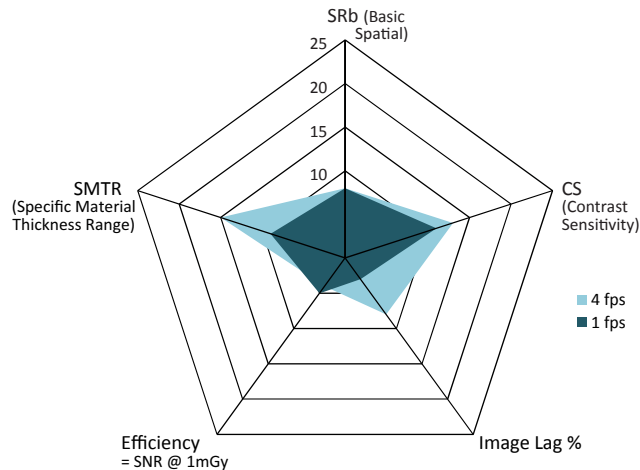
NOTE: SMTR, CS and Lag quality numbers all improve with higher frame rate. For the same inspection time, higher frame rates enable higher beam power.

Full Resolution - 2pF Gain setting

Aluminum 6061

Inconel 718

Titanium 6Al4V

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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.