**Product Description**

The PaxScan® 4343CB is specifically designed to meet the needs of Cone Beam X-ray imaging applications featuring multiple sensitivity ranges and extended dynamic range modes. The main system components are the 43 x 43cm 139µm-pixel amorphous silicon FPD and Command Processor 2LC. Excellent low-dose performance is achieved by combining Varex Imaging’s proprietary readout electronics with the high sensitivity of 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 Specification**

- **Receptor Type**: Amorphous Silicon
- **Conversion Screen**: Integral columnar CsI:Tl
- **Pixel Area - Total**: 42.7 cm (h) x 42.7 cm (v) (16.8 x 16.8 in)
- **Pixel Matrix - Total**: 3072 (h) x 3072 (v)
- **Pixel Pitch**: 139 µm
- **Limiting Resolution**: 3.6 lp/mm (1x1) 1.8 lp/mm (2x2)
- **Energy Range**: 40 - 150 kVp
- **Dynamic Range**: 94 dB std modes 108 dB DGS modes

**Image Quality (RQA5)**

- **MTF (1x1) at 1 lp/mm typical**: 54%
- **DQE (1x1, quantum-limited) at 0 lp/mm typical**: 74%
- **Contrast Ratio**: Large Area (120 mm): < 0.8% Small Area (10 mm): < 7%
- **Lag (1st frame)**: < 3%
- **Maximum Entrance Dose/Frame typical**: 50 uGy
- **Dynamic Range**: 94 dB std modes 108 dB DGS modes
- **Input voltage range**: 21V - 33V (measured at the input of the imager)
- **Nominal Power Consumption**: 54W
- **Peak Power Consumption**: 68W

**Power Requirements**

- **Input voltage range**: 21V - 33V (measured at the input of the imager)
- **Nominal Power Consumption**: 54W
- **Peak Power Consumption**: 68W
- **Voltage and power drop across supply cables not included**

**Image Acquisition Modes (Current)**

- **Fluoro FOV**: 1024 (h) x 1024 (v)
  - 25 fps 3 x 3 binning, FOV 427 x 427 mm
- **Fluoro Zoom**: 1024 (h) x 1024 (v)
  - 30 fps 2 x 2 binning, FOV 285 x 285 mm
- **RAD**: 3072 (h) x 3072 (v)
  - 4 fps 1 x 1 binning, FOV 427 x 427 mm
- **CBCT**: 768 (h) x 768 (v)
  - 40 fps 4 x 4 binning, FOV 427 x 427 mm
- **Additional Modes**: Consult Varex Imaging Corporation

**Environmental**

- **Temperature Limit**: 19 - 49°C (as reported by imager internal temperature sensor)
- **Relative Humidity**: 10-90% Non-Condensing
- **Atmospheric Pressure**: 70 kpa - 106 kpa
- **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

*PaxScan is a Registered Trademark of Varex Imaging Corporation*
PaxScan® 4343CB
Flat Panel Detector

Dimensions are for reference only
Dimensions are in inches [mm]

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.