PaxScan 1616DXT imagers provide industry leading CBCT and Panoramic image quality for mid-size dental applications. Varex Imaging's amorphous silicon based detectors are the gold standard for CBCT in medical, dental and industrial applications.

Amorphous silicon brings key advantages unmatched by other technologies, including:
- radiation hardness > 1MRad
- widest input energy range
- immunity from single photon events in the substrate
- excellent low dose performance
- proven 3-D soft-tissue capability

Varex Imaging's extensive dental product line allows the OEM to easily integrate multiple panel sizes. The Virtual CP software interface is common across all the panels and the entire product line is offered with Gigabit Ethernet.

Technical Specifications

Receptor Type . . . . Amorphous Silicon

Conversion Screen . . . . Direct Deposit CsI, DRZ Plus

Pixel Area   Total . . . . 16.3 x 16.3 cm (6.4 x 6.4 in.)
Pixel Matrix   Total . . . . 1280 x 1280 (1 x 1)
640 x 640 (2 x 2)

Pixel Pitch . . . . 127 μm^2

Limiting Resolution . . . . 3.94 lp/mm

MTF, X-Ray . . . . >48% @ 1 lp/mm (1 x 1), CsI screen

DQE, X-ray . . . . > 60% @ 1 lp/mm (1 x 1), CsI screen

Energy Range . . . . 40 - 150 kVp

Fill Factor 57%

Image Capture . . . . Pleora Gigabit

Scan Method . . . . Progressive

A/D Conversion 16-bit

Frame Rate . . . . 24 fps (1 x 1)
48 fps (2 x 2)
71 fps (3 x 3)
94 fps (4 x 4)

Data Output . . . . Gigabit Ethernet

Exposure Control . . . . . Opto Coupled, External Sync, Expose OK

Mechanical

Weight . . . . 3.71 lbs. (1.68 kg)

Housing Material . . . . Aluminum

Sensor Protection Material
 . . . . Carbon fiber plate (2.5 mm thick) and aluminum

Software

The software release includes ViVA™, a basic application for image 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.
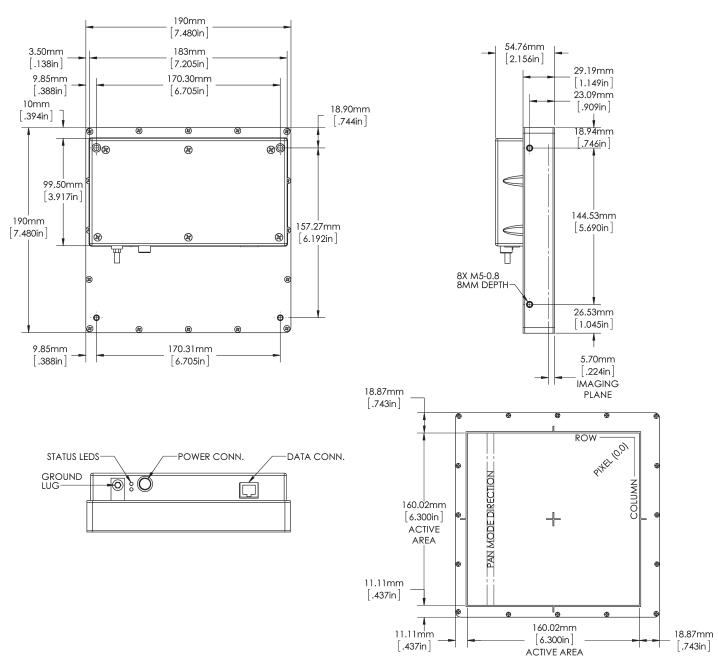
Power

Power Dissipation . . . . 10.5 Watts @ 15 VDC

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

Environmental

Temperature Range - Operating . . . . 10°C to 35°C (max.)
Two internal sensors T1 & T2 should be less than 52°C
     Storage (Ambient) . . . . -20°C to +70°C

Humidity (non-condensing) - Operating & Storage . . 10% to 90%

Atmospheric Pressure - Operating & Storage . . 70 kPa to 106 kPa

Regulatory

U.S. . . . . ANSI/AAMI ES60601-1:2012

Canada . . . . CAN/CSA C22.2 No. 60601-1:14

EU . . . . IEC/EN 60601-1:2012

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Dimensions are for reference only

190mm [7.480in]
3.50mm [.138in]
183mm [7.205in]
9.85mm [.388in]
170.30mm [6.705in]
10mm [.394in]
18.90mm [.744in]
99.50mm [3.917in]
190mm [7.480in]
157.27mm [6.192in]
9.85mm [.388in]
170.31mm [6.705in]

54.76mm [2.156in]
29.19mm [1.149in]
23.09mm [.909in]
18.94mm [.746in]
144.53mm [5.690in]
8X M5-0.8 8MM DEPTH
26.53mm [1.045in]
5.70mm [.224in]
IMAGING PLANE

STATUS LEDS
POWER CONN.
DATA CONN.
GROUND LUG

18.87mm [.743in]
ROW
PIXEL (0,0)
PAN MODE DIRECTION
160.02mm [6.300in] ACTIVE AREA
COLUMN
11.11mm [.437in]
11.11mm [.437in]
160.02mm [6.300in] ACTIVE AREA
18.87mm [.743in]

VAREX IMAGING

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