

Product Description

The PaxScan 2520D/CL is a third-generation X-ray imager designed for high-speed dental cone-beam CT imaging. Based upon the new Gigabit Ethernet interface standard, or customer-specified CameraLink standard, images are displayed instantaneously on a user-supplied workstation. The housing is lightweight aluminum.

Technical Specifications

| | |
|---|--|
| Receptor Type | Amorphous Silicon |
| Conversion Screen | CsI, DRZ Plus, or Gd ₂ O ₂ S: Tb (Kodak Lanex Screen) |
| Pixel Area | |
| Total | 19.5 (h) x 24.4 (v) cm (7.68 x 9.6 inch) |
| Active (Gd ₂ O ₂ S) | 19.3 (h) x 24.2 (v) cm (7.60 x 9.49 inch) |
| (CsI, Direct Deposit) | 19.0 (h) x 23.8 (v) cm (7.48 x 9.37 inch) |
| Pixel Matrix Total | 1,536 (h) x 1,920 (v) |
| Active (Gd ₂ O ₂ S) | 1,516 (h) x 1,900 (v) |
| (CsI, Direct Deposit) | 1,496 (h) x 1,874 (v) |
| Pixel Pitch | 127 μm ² |
| Limiting Resolution | 3.94 lp/mm |
| MTF, X-Ray | ≥48% 1 lp/mm, Gd ₂ O ₂ S:Tb screen (80 kVp) |
| DQE (0), RQA5 Direct Deposit CSI | 70% ±5% |
| DQE (0), RQA5 Other Scintillator Options | ≈60% |
| Energy Range Standard | 40 - 150 kVp |
| Fill Factor | 57% |
| Image Capture | Intel® Pro/1000GT Desktop Adaptor (PCI) (Customer Supplied) Epix® CameraLink Adaptor (PCI) (Optional) |
| Scan Method | Progressive |
| Data Output/System Interface | Gigabit Ethernet or CameraLink |
| A/D Conversion | 14-bits |
| Frame Rate | 1 - 10 fps (1 x 1) 15/30 fps (2x2) (Workstation dependent) |

Software

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

Environmental

| | |
|---|----------------------|
| Shock | High-shock tolerance |
| Temperature Range - Operating | 10°C to 35°C (max.) |
| (Ambient) - Storage | -20°C to +70°C |
| Humidity - Operating (non-condensing) | 10 to 90% |
| Storage (non-condensing) | 10 to 90% |
| Atmospheric Pressure | 70 kPa to 106 kPa |

Regulatory

| | |
|--------------|------------------------|
| U.S. | UL 60601-1 |
| Canada | CSA 22.2 No. 601.1-M90 |

Mechanical

| | |
|--|---------------------|
| Weight | 9.65 lbs. (4.38 kg) |
| Housing Material | Aluminum |
| Sensor Protection Material | |
| Carbon fiber plate (2.5 mm thick) and aluminum | |

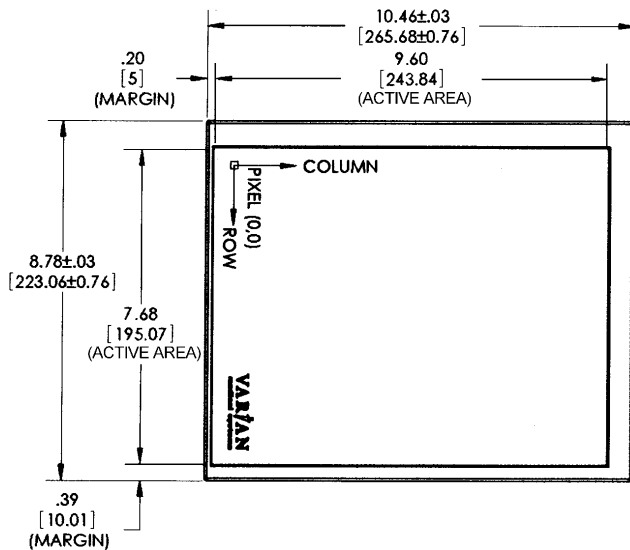
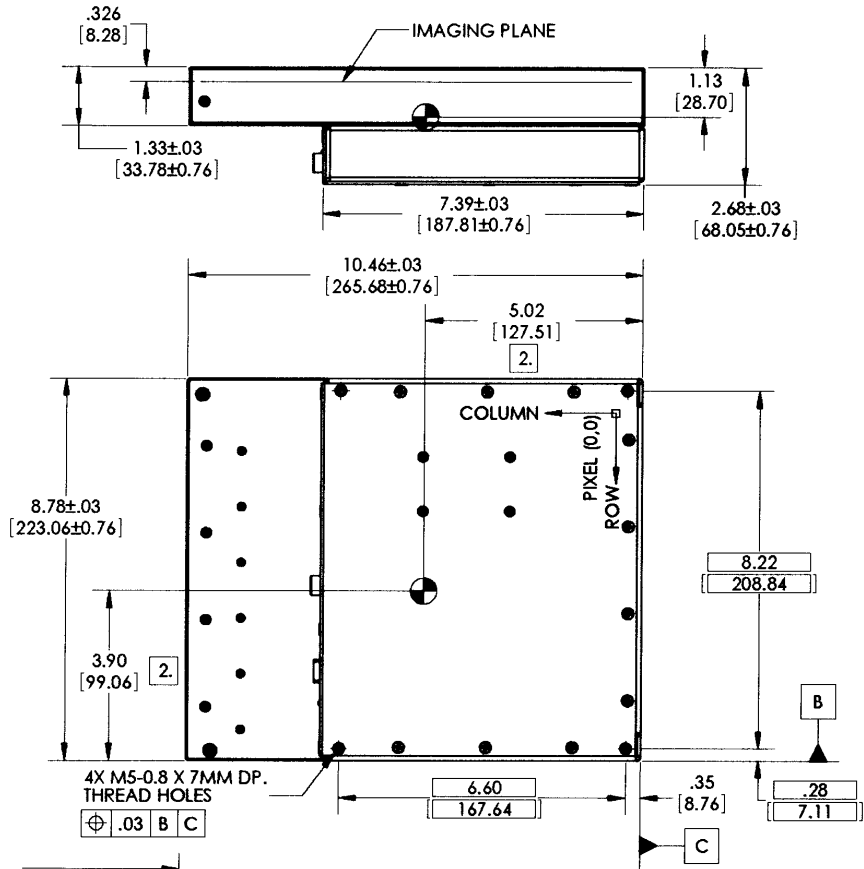
Power

| | |
|--------------------|---|
| Power Input | 90 - 264 Vac, 47 - 63 Hz |
| Power Output | +15 Vdc |
| Rating | 1.35 A max. @ 115 Vac, 60 Hz |
| Size | 1.69 (h) x 2.99 (w) x 5.75 (d) Inch [4.29 x 7.59 x 14.61 cm] |

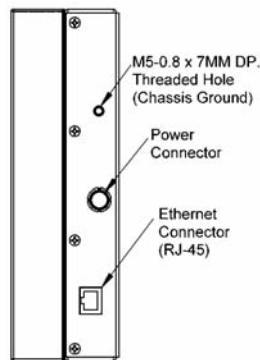
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Drawings are for reference only

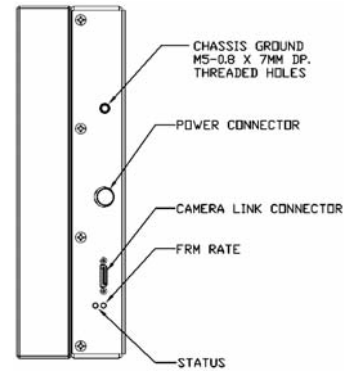
Dimensions are in inches [mm]



2520D Shown



2520CL Shown



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