



Product Description

The PaxScan 4336X is a light weight, ruggedized flat panel detector designed for digital radiographic X-ray systems. The 4336X fits in existing 14"x17" standard bucky trays and the panel is hot swappable for easy migration between a chest stand and the table. For mobile applications the 4336X is available with integrated handles. The imager control and data transmission is accomplished via a Gigabit Ethernet interface, using Varex Imaging's robust Virtual Command Processor API.

Technical Specifications

Receptor Type	Amorphous Silicon	
Conversion Screen	Direct Deposit Csl, DRZ +	
Pixel Area	Total	42.7 (v) x 35.6 (h) cm (16.8 x 14.0 inch)
	Active	42.4 (v) x 35.3 (h) cm (16.7 x 13.9 inch)
Pixel Matrix	Total	3,072 (v) x 2,560 (h)
	Active (DRZ+)	3,052 (v) x 2,540 (h)
	Active (Csl)	3,032 (v) x 2,520 (h)
Pixel Pitch	139 µm	
Limiting Resolution	3.6 lp/mm	

Image Quality	GADOX (typical)	DD/CSI (typical)
DQE @ 0 lp/mm	33%	70%
DQE @ 1 lp/mm	24%	54%
DQE @ 2 lp/mm	15%	42%
DQE @ 3 lp/mm	7%	26%
DQE @ Nyquist	4%	15%
MTF @ 1 lp/mm	53%	57%
MTF @ 2 lp/mm	20%	27%
MTF @ 3 lp/mm	9%	13%
MTF @ Nyquist	5%	10%
Sensitivity	0.412 LSB/nGy	0.825 LSB/nGy
Pixel Noise (1000ms)	7 LSB	7 LSB
Memory Effect	0.005 (@ 60 sec)	0.005 (@ 60 sec)

Main Functionalities		
Cycle Time @ 550ms (X-ray Window)	6 sec (MSR2, RCT) 10 sec (MSR2, SCT)	6 sec (MSR2, RCT) 10 sec (MSR2, SCT)
X-ray Window	250-2200 ms	250-2200 ms

Dose Range		
Saturation Dose	130 µGy	65 µGy
Maximum Linear Dose	90 µGy	46 µGy
NED (max.)	0.5 µGy	0.25 µGy
Energy Range Standard	40 - 150 kVp	
Fill Factor	64.3%	
Scan Method	Progressive	
Data Output	Gigabit Ethernet	
A/D Conversion	16-bit	
Exposure Control	Inputs:	Prepare, Expose-Request
	Outputs:	Expose-OK

Software

The software 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, detector set-up, image acquisition, and image corrections. ViVA™ includes file type translators for .viv, .raw, .jpg, and .bmp file formats. Windows® XP and Windows® 7 (32 bit & 64 bit) compatible.

Computer Requirements

RAM	2.00 GB
CPU	Pentium dual core running @ 2.0 GHz or equivalent

Power

Power Dissipation	< 24 watts
I/O Interface Box	100 - 240 VAC, 47 - 63 Hz

Mechanical

Weight	DRZ+ - 6.8 lbs. (3.1 kg) Csl - 7.3 lbs. (3.3 kg)
Housing Material	Magnesium
Sensor Protection Material	Carbon fiber plate

Environmental

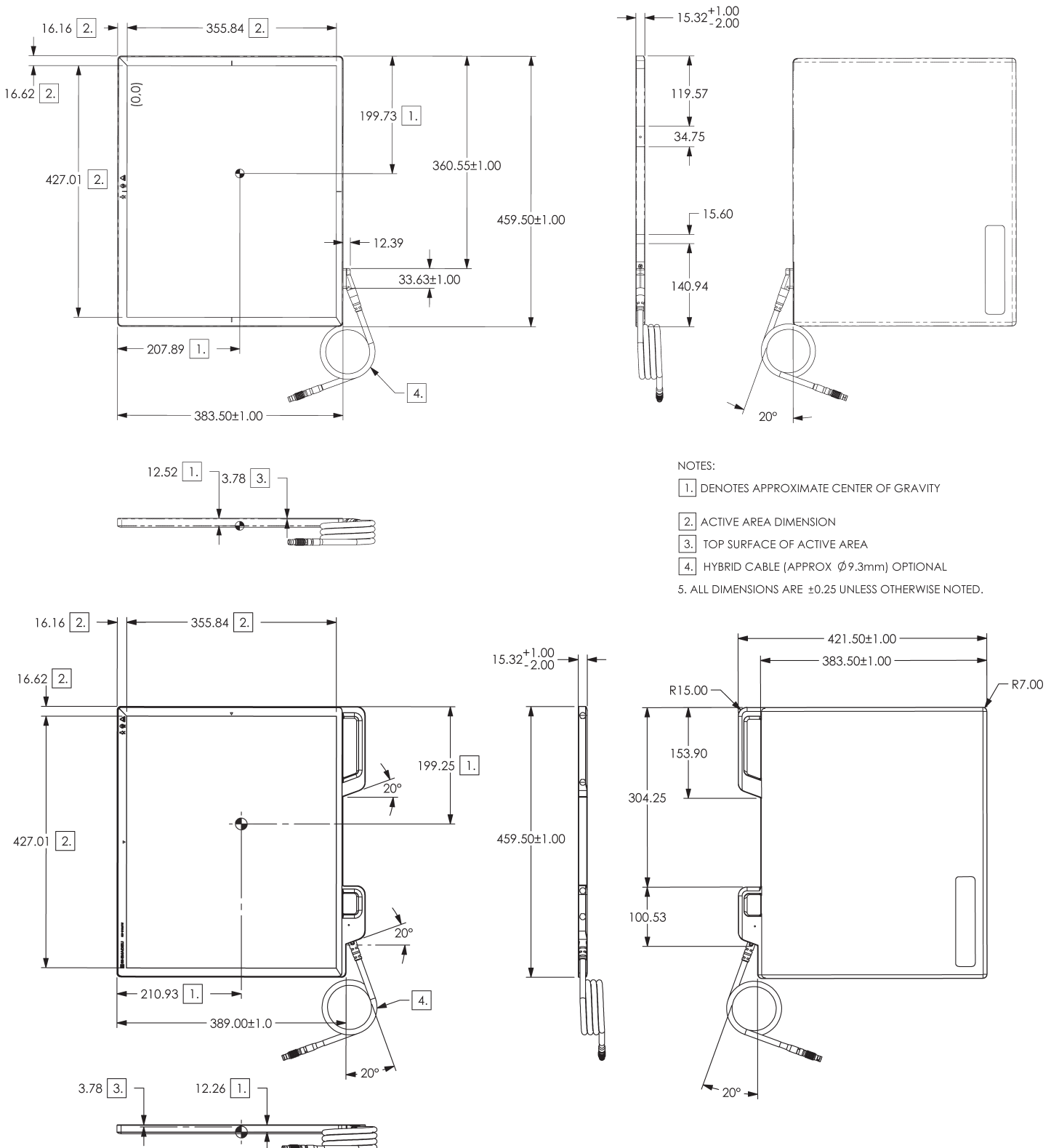
Shock	High-shock tolerance
Water Resistant	IPX-1
Temperature Range - Operating (at back cover)	10°C to 35°C (max.)
(Ambient) - Storage	-20°C to +70°C
Humidity - Operating & Storage (non-condensing)	10% to 90%
Atmospheric Pressure - Operating & Storage	70 kPa to 106 kPa

Regulatory

U.S.	ANSI/AAMI ES60601-1:2005
Canada	CAN/CSA C22.2 No. 60601-1:08
EU	IEC/EN 60601-1:2005

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Dimensions are for reference only
 Dimensions are in mm



- NOTES:
- 1. DENOTES APPROXIMATE CENTER OF GRAVITY
 - 2. ACTIVE AREA DIMENSION
 - 3. TOP SURFACE OF ACTIVE AREA
 - 4. HYBRID CABLE (APPROX Ø9.3mm) OPTIONAL
 - 5. ALL DIMENSIONS ARE ±0.25 UNLESS OTHERWISE NOTED.

I/O Box

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