



Product Description

The PaxScan 2530W is a light weight, wireless flat panel detector designed for digital radiographic X-ray systems. The 2530W fits in existing neonatal bassinets. The ruggedized 2530W design is well suited to mobile cart and in-room, above the table applications. The 2530W supports a number of connection methods, simplifying the integration challenge of going wireless. It can connect to a PaxScan I/O Box, a commercial Access Point or directly to a Tablet or PC and can work with RAD acquisition or autotrigger.

Technical Specifications

Receptor Type	Amorphous Silicon
Conversion Screen	Direct Deposit CsI, DRZ+
Pixel Area - Total	24.9 (v) x 30.2 (h) cm (9.8 x 11.9 inch)
Active (DRZ+)	24.6 (v) x 30.0 (h) cm (9.7 x 11.8 inch)
Active (CsI)	24.4 (v) x 29.7 (h) cm (9.6 x 11.7 inch)
Pixel Matrix Total	1,792 (v) x 2,176 (h)
Active (DRZ+)	1,772 (v) x 2,156 (h)
Active (CsI)	1,752 (v) x 2,136 (h)
Pixel Pitch	139 μ m
Limiting Resolution	3.6 lp/mm

Image Quality	GADOX (typical)	DD/CSI (typical)
DQE @ 0 lp/mm	33%	70%
DQE @ 1 lp/mm	24%	50%
DQE @ 2 lp/mm	15%	32%
DQE @ 3 lp/mm	7%	17%
DQE @ Nyquist	4%	10%
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	0.660 LSB/nGy
Pixel Noise (1000ms)	7 LSB	7 LSB
Memory Effect	0.005 (@ 60sec)	0.005 (@ 60sec)

Main Functionalities

Cycle Time @ 550ms X-ray Window	<7 sec	<7 sec
X-ray window	250-2200 ms	250-2200 ms

Dose Range	DRZ+	CsI
Saturation Dose	130 μ Gy	74 μ Gy
Maximim Linear Dose	90 μ Gy	46 μ Gy
NED (max.)	0.5 μ Gy	0.25 μ Gy

Energy Range	Standard	40 - 150 kVp
Fill Factor		64%
Scan Method		Progressive
Data Output		Gigabit Ethernet
A/D Conversion		16-bit
Exposure Control - Inputs:		Prepare, Expose-Request
Outputs:		Expose-OK
Wireless Signal		>80% or no image acquire

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

Computer Requirements

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

Power

Power Dissipation	4.7 watts (idle)
	16.0 watts (acquisition)

Recommended Wireless Access Point

Paxscan I/O Box or 802.11n, 3x3 MIMO, Dual Band (not included)

Mechanical

Weight (includes battery)	4.6 lbs. (2.1 kg)
Housing Material	Magnesium
Sensor Protection Material	Carbon fiber plate

Battery

Lithium polymer smart battery prevents over charging

Charge Capability	800 continuous images over 4 hrs
Expected Life	500 cycles of charge/discharge
Battery Charge	10 hours in standby mode

Environmental

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

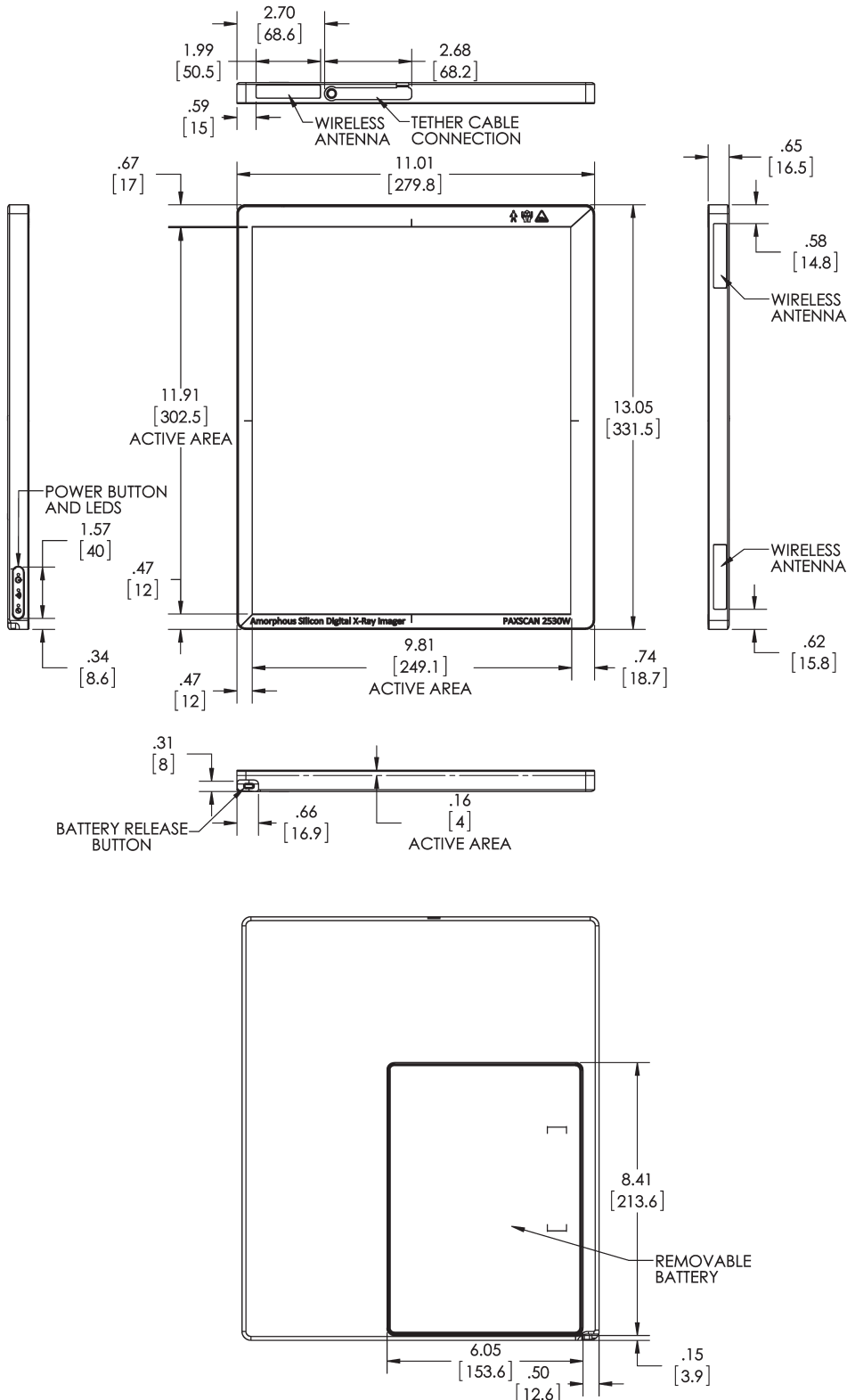
Regulatory

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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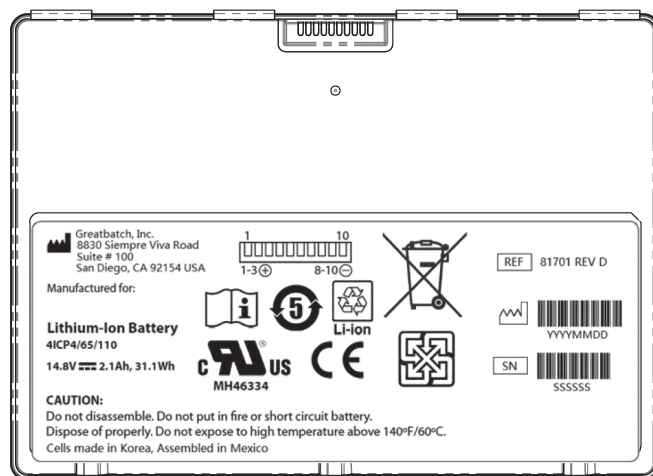
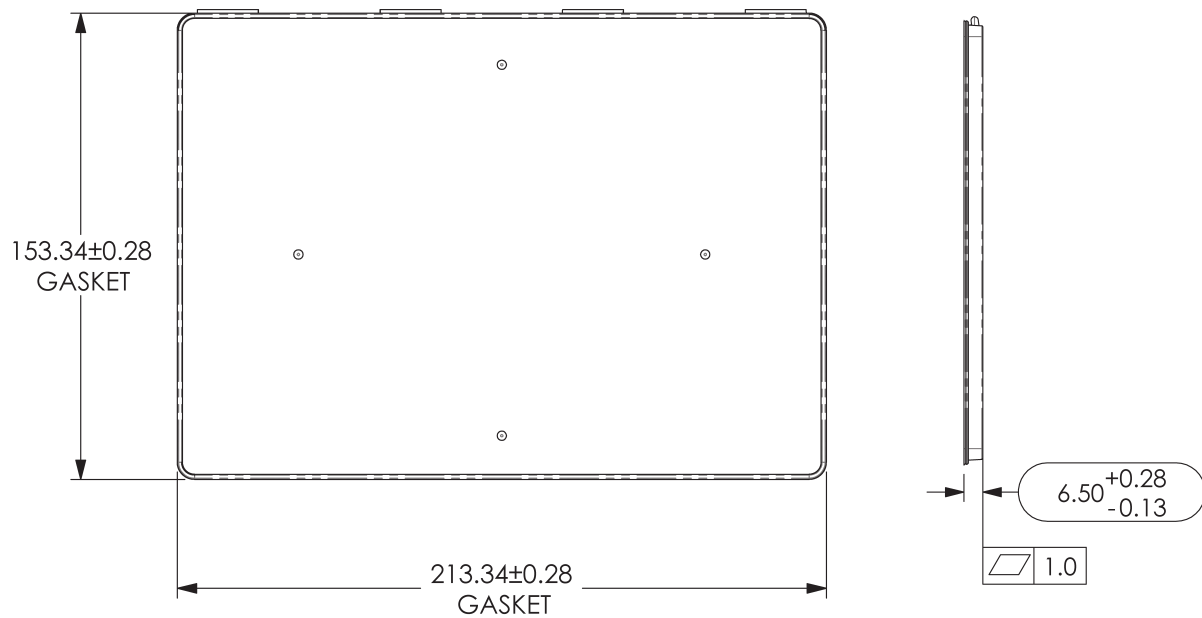
Dimensions are for reference only

2530W WITH TETHER CABLE



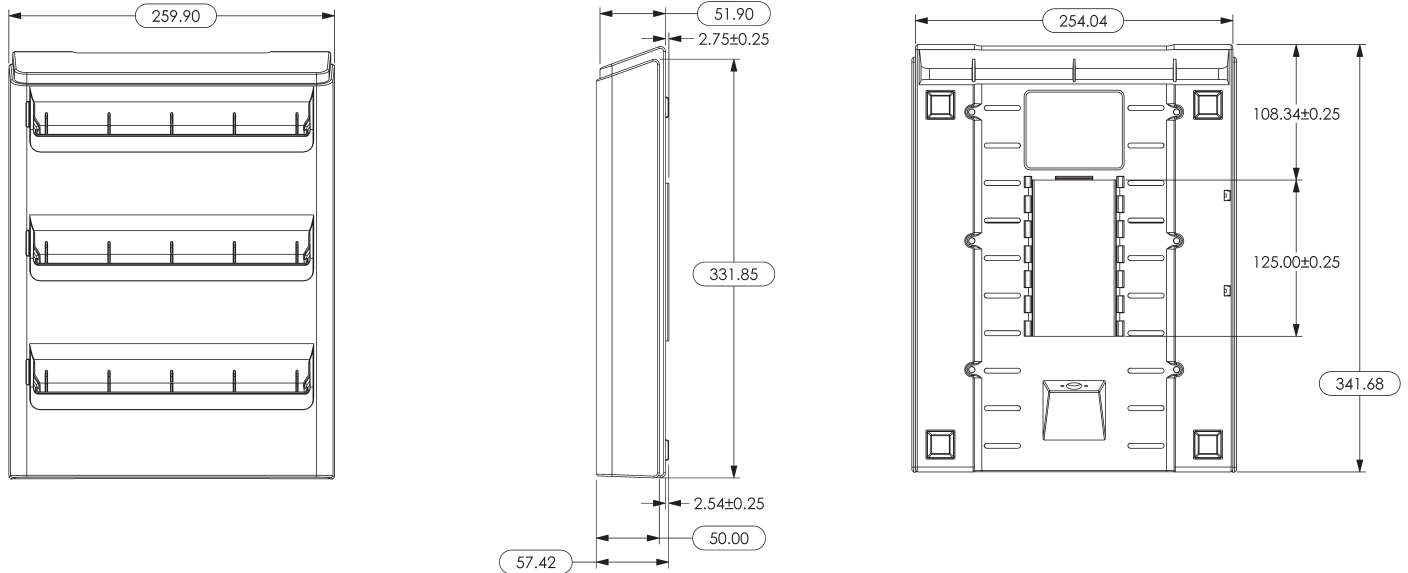
Dimensions are for reference only

Weight - 0.66 lbs (.3 kg) (nominal)



3 Slot Time Card Charger

Weight - 1.33 kg (nominal)



Single Bay Charger

Weight - 0.3 kg (nominal)

