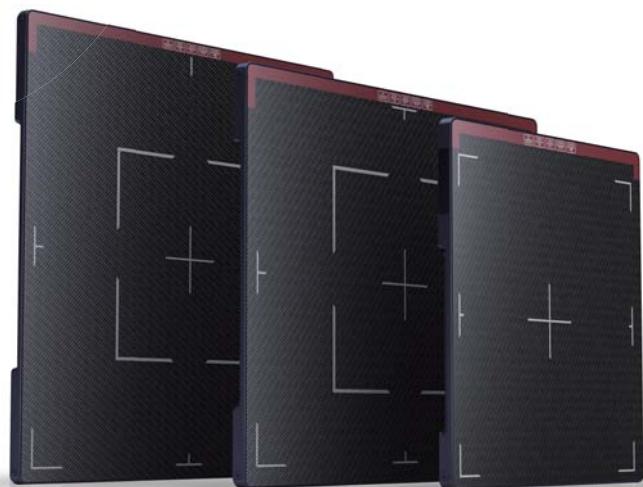


Embodying Genuine Premium, Prudent Series DR



Wireless Flat Panel Detector
Prudent Series DR

PIXXGEN

has been a pioneer introducing new technologies for flat-panel detectors.

From Auto Exposure Detection technology introduced in 2011, PIXXGEN has been equipped the innovative technologies with flat-panel detector such as 17 x 17inch cassette-sized detector, on-board storage and web-viewer. These technologies introduced by PIXXGEN now became the standard features of industry for the most of products available in the market.

Prudent

Series detectors are once again built on the technologies one step ahead to contribute high sensitivity, high performance and high mobility flat-panel detectors for imaging professionals. Various imaging sizes with robust and ergonomic design will allow the professionals to use the detector at any environment.

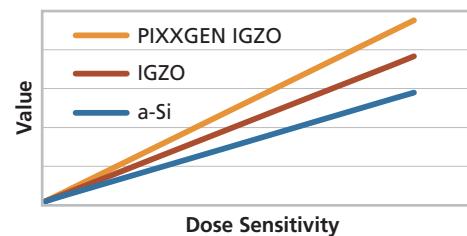
LOW DOSE
IGZO

LOW DOSE NON-GLASS IGZO TFT

Specially designed IGZO TFT for High Sensitivity and robust Non-Glass TFT will bring you the finest quality image and durability in any applications

The Prudent Series detectors adopted IGZO TFT and improved to produce a higher level of sensitivity at low X-ray dose.

The Prudent IGZO TFT significantly improves SNR (signal to noise ratio) over conventional a-Si or other IGZO TFT detectors. The new IGZO TFT improves MTF (modulation transfer function) and DQE (detective quantum efficiency) to show much clear and effective information on the images. In addition, Prudent Series detectors have adopted a TFT made of non-glass substrate, so that detectors can be operated in any mobile environment without any risk of physical impact.



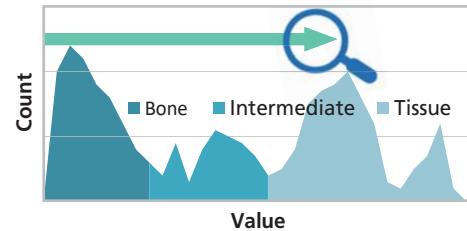
G

SELECTABLE GAIN ADJUSTMENT (SGA[®])

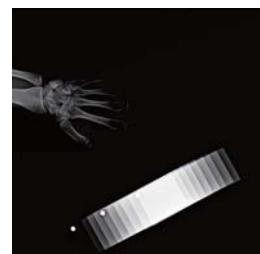
Clearly see what you want to see by a simple adjustment of Gain Factor

SGA[®] maximizes the contrast between Bone and Tissue dependent on ROI (regions of interest). This technology can be maneuvered by simply adjusting the menu bar without any specific procedures or settings. When tuning the SGA[®] value, the detector automatically processes complex programming logic quickly without any delay.

The innovative SGA[®] technology introduced by PIXXGEN optimizes images more specifically and accurately than images processed through conventional image software-based engines.



*SGA[®] applies optionally for Prudent Series detectors.

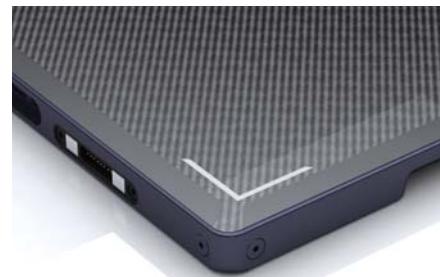


IP67

Light & Robust Design with IP67

Metal frame made of Magnesium promises a high level of endurance while maintaining ultra-light weight. Each edge of detector are protected against external impacts and daily use through robust metal edge covers & sophisticated design.

IP 67 Dust & Waterproof rating prevents any leakage of liquids including blood & urine and any dust into the detectors. And this also allows easy cleaning of detectors with liquid cleaners without any damage.



PRUDENT SERIES DR, OPTIMIZED FOR MOBILITY & VERSATILITY IN HARSH ENVIRONMENTS

X2
AED

ENHANCED AED®

Expose the X-ray, there will be an image for sure

Ultra high sensitive 2xAED® technology detects the X-ray with a new AED technology, and it significantly improved error reduction and sensitivity generated during the detection compared to existing methods.

180KG

500kg WEIGHT BEARING & 180kg POINT BEARING

Prudent Series detectors sustain up to 500kg on the whole surface and 180kg on 4 x 4cm center loading.

500KG

Web

WEB BASE VIEWER & CONTROL

Prudent Series detectors also supports Web Viewer technology which was introduced to the market for the first time by PIXXGEN and now became a technical standard for DR systems.

Acquired images can be viewed through any type of mobile devices based on iOS, Android or Windows in almost real time.

X2
X2

EXTENDED BATTERY LIFE

The optional dual batteries enable the detector to stay up to 14 hours in a full operation. The detector can be operated for an entire working day without extra charging.

Two batteries can be charged together at the same time through dual battery charger and charging batteries is also available while they are inserted inside the detector.

DUAL USB-C PORTS AND MAGNETIC CABLE

The two waterproof USB-C ports on the Prudent Series detectors can be used for power supply and data transmission. This redundancy preserves the charging and data transmission capability of the detector.

Waterproof magnetic cables and connectors are designed flexibly which operators can maneuver the cables in any directions, and also able to extend if necessary.

EASY GRIP & REMOVABLE HANDLE

The grips and rounded edges located on each four side of the detector allow easy holding and lifting the Prudent Series detectors.



ON-BOARD IMAGE STORAGE

Up to 200 images can be stored in on-board storage of the Prudent detector in order to protect acquired images.

In a mobile environment, the detector can acquire X-ray images in stand-alone mode without a console software.



Specifications

Model	PRUDENT 1212	PRUDENT 1417	PRUDENT 1717
Application	General Radiography		
Conversion Screen (Scintillator)	CsI / GOS		
TFT Panel	Non-Glass a-Si / Non-Glass IGZO		
Dimensions	330 x 315 x 15 mm	385 x 461 x 15 mm	461 x 461 x 15 mm
Weight incl. battery	< 2.0kg (single battery)	< 3.3kg (dual batteries)	< 3.9kg (dual batteries)
Pixel Pitch	140 μm		
Image data (AD conversion)	16bit		
Wired / Wireless communication	Gigabit Ethernet / IEEE 802.11 ac		
Trigger Mode	High Sensitive 2XAED®		
Durability	* Weight Bearing for whole surface	< 500kg	
	* Point Weight Bearing (4 x 4cm)	< 180kg	
	* Drop Test	Up to 100cm	
	Water & Dust Resistance	IP67	
Inner Storage	< 200 Images	< 150 Images	< 100 Images
Battery Type	Lithium-Ion Polymer Battery		
Battery's Full Operation Time (Minimum)	** 8 Hours	14 Hours	12 Hours
Image Area Size	2,048 x 2,048 mm	2,500 x 3,052 mm	3,072 x 3,072 mm
X-Ray Voltage Range	40 ~ 150 kVp		
Calibration Mode	ACC (Auto Calibration Control) / Manual		
Voltage	AC100~240V, 50/60Hz, DC18V 3.5A		
Environment	Storage : -10°C ~ 60°C, 10% ~ 90% RH (non-condensing) Operation : 10°C ~ 35°C, 20% ~ 75% RH (non-condensing)		

* Weight Bearing & Drop Test were evaluated with Non-Glass TFT detectors

** Only single battery available for PRUDENT 1212

PIXXGEN

PIXXGEN Corporation

5F, Smart Bay, 123, Beolmal-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Korea 14056
www.pixxgen.com sales@pixxgen.com Tel. +82.70.4846.8888 Fax. +82.2.6455.2905

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