



# **SMART RAY**

**Flat-panel Digital X-ray Detectors  
That Deliver the Results**

## **SAMON IMAGING**

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# Key Features

<b>Basic</b>	<ul style="list-style-type: none"><li>▪ High Sensitive Scintillator (Csl &amp; GOS)</li><li>▪ 2xAED</li></ul>
<b>Advanced</b>	<ul style="list-style-type: none"><li>▪ Non Glass TFT</li><li>▪ IGZO</li></ul>
<b>Mobile</b>	<ul style="list-style-type: none"><li>▪ On-board Storage</li><li>▪ WebViewer</li><li>▪ IP67</li><li>▪ Dual Battery</li><li>▪ Easy Grip &amp; Handle</li></ul>
<b>User</b>	<ul style="list-style-type: none"><li>▪ OLED</li><li>▪ Carbon Housing</li><li>▪ Off-the-Shelf Data Cable</li><li>▪ Latest Wi-Fi</li></ul>

Providing high performance X-ray detectors to our valued customers

# Plug & Play with 2xAED

Upgrade existing X-ray machines to DR easily and simply



## 1st AED detector in the world

ATAL 8 introduced by ATLAIM was the first detector equipped with AED(Automatic Exposure Detection) technology in 2011 and Now the technology became industry standard.



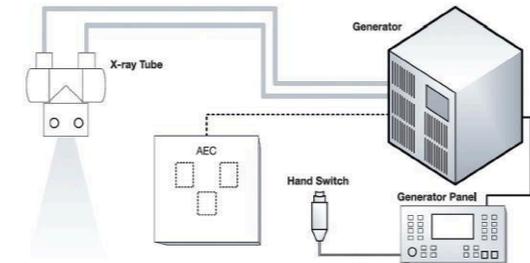
## No Loss of Signal (Dual AED Sensor)

Smart Ray 2.0 Flat-panel Detector's equipped with 2nd generation of AED which has two different AED sensors. It allows continuous and stable image acquisition without any loss of x-ray signal.



**AED**

Auto Exposure Detection



**No Cable Connection**



Configuration for Wired Mode

Configuration for Wireless Mode

# High Imaging Quality

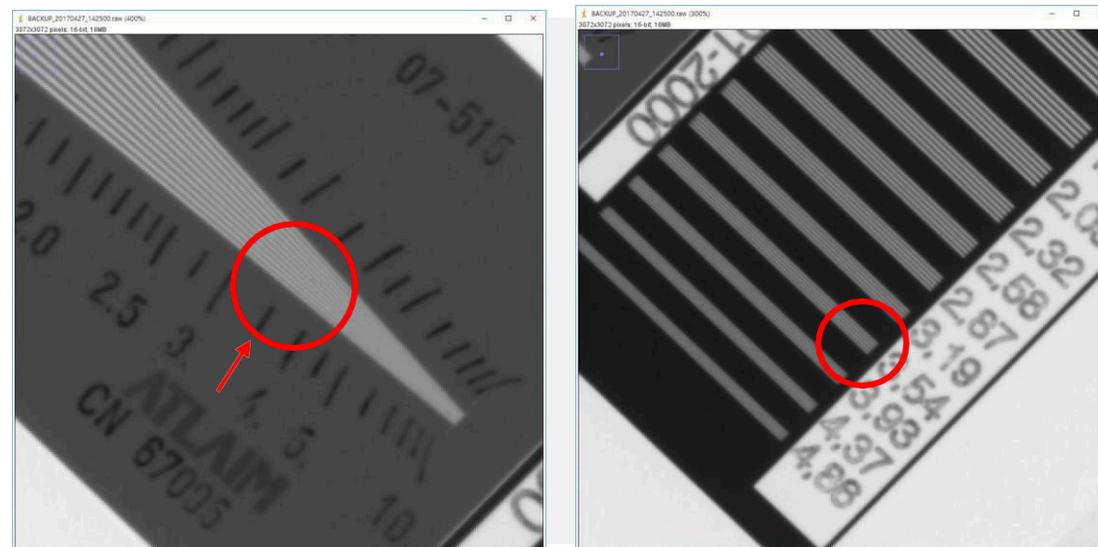
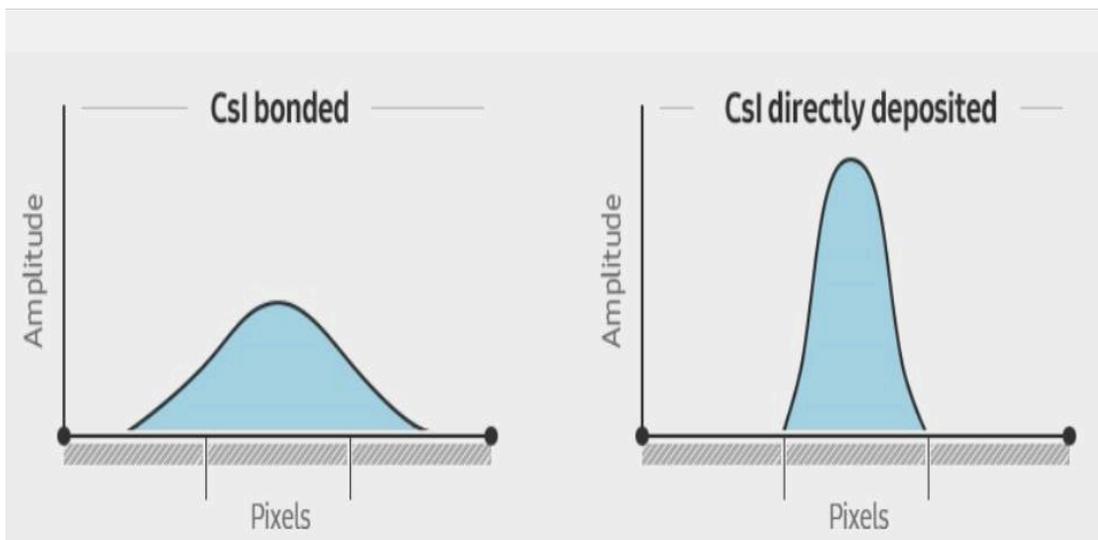
With high sensitivity scintillator

## High Quality Direct Deposit CsI

Our detectors use the direct deposit process, we are able to minimize the amount of isotropic lateral scattering, which means the best resolution images. This advanced process also allows the least photo coupling loss, which means the best quantum efficiency and detective quantum efficiency (DQE).

## Premium Gadox

Detectors equipped with CsI scintillator performs high image quality, of course. SAMON Imaging premium gadox allows high X-ray sensitivity and high image quality. 3.5lp/mm is not just mathematical number! You can check 3.5lp/mm on the image taken with PIXX series.



# Non-Glass TFT

Reduce the risk of damages of the most expensive part



SAMON IMAGING with PIXXGEN introduced Smart Ray flat-panel digital X-ray detectors with Non-Glass TFT since 2018. Since the first flat-panel detectors have been developed in 1990's, less than 1mm thickness TFT glass has been used, which is the detector's most important and expensive part. One of the reasons why the user is hesitant when choosing a flat-panel detector is that this expensive part is damaged or broken so it causes expensive repair cost. The detector with Non-Glass TFT will greatly reduce your risk.

# On-board Storage and Web-viewer



  
**Portability**

1

## On-board Storage

The detector can save images inside

2

## Web-Viewer

The images saved in the detector can be viewed via Web-Viewer

3

## Only need Smart Ray Detector + X-ray Source

Without Workstation PC or Laptop, you can take X-ray with just with the Smart Ray detector and X-ray Source

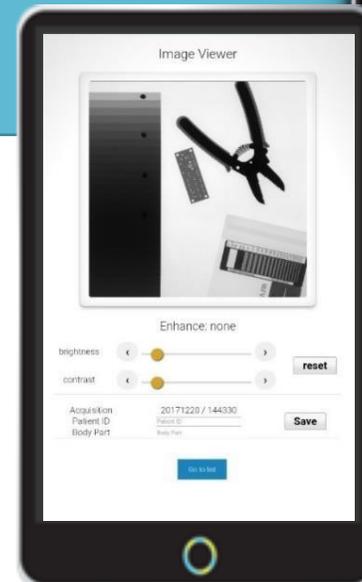


# Enhance your Mobility



Save the images on the detector (**On-board Storage**) and check it with your mobile devices (**Web-Viewer**)

This two features allows user to take an x-ray without Workstation PC in mobile and portable environment. No need of downloading special “App” but you can just access the images using Internet Browser from mobile devices.



## Save



Max. 200 images

## Review



Access the detector using its IP address via your mobile devices to see the image stored in the detector

## Upload and Download



With Smart view Software, upload Worklist from Workstation to Mobile devices. Also download saved images from detector to Workstation PC

# Enhance your Mobility

□ IP 67

□ Weight Bearing

□ Extended Battery Life

□ Easy Grip

□ Easy Detachable Handle



## IP 67

Dust & Waterproof rating prevents any leakage of liquids including blood & urine and any dust into detectors

## Weight Bearing

Sustains up to 500kg on the whole surface and up to 180kg on 4x4cm center  
\* Differ from the option



## Extended Battery Life

Dual battery enables the detector to stay up to 14hours in full operation

## Easy Grip

Grips and rounded edges located on each four side of the detector allow easy holding and lifting the detector



## Easy Detachable Handle

Handle can be mounted and detached without additional tools.

# Easy To Use

Easy installation and operation with features with high-tech

## □ OLED Window

: Indicating the detector status

## □ Carbon Housing

: Light and durable

## □ Off-the-Shelf Data Cable

: HDMI Cable as Data Cable

## □ Latest WIFI Standard

: IEEE 801.11ac fast data transmission



### OLED

Power On/Off  
WIFI Status  
Battery Status  
SSID & IP Address



### Robust Carbon Housing

Designed with one-piece carbon fiber body.  
Light and Durable design.



### HDMI Data Cable

Off-the-Shelf Data Cable for  
economical and fast maintenance

# Product Models



	Image Size	Pixel Size	CsI	GOS	Mode	Non-Glass	On-Board Storage	IP67	Dual Battery
Smart Ray Series	17x17"	140µm	Yes	Yes	Wired/ Wireless	Option	100	Yes	Yes
	14x17"	140µm	Yes	Yes	Wired/ Wireless	Yes	150	Yes	Yes
	12x12"	140µm	Yes	Yes	Wired/ Wireless	Yes	200	Yes	No
PIXX Series	17x17"	140µm	Yes	Yes	Wired/ Wireless	No	100	No	No
	14x17"	140µm	Yes	Yes	Wired/ Wireless	No	150	No	No
	12x12"	140µm	Yes	Yes	Wired/ Wireless	No	200	No	No
	10x12"	85µm	Yes	No	Wired/ Wireless	No	200	No	No

# Product Certifications



## Korea KFDA

Smart ray [Prudent 1717], Smart Ray [Prudent 1417],  
Smart Ray [Prudent 1212]  
PIXX 1717, PIXX 1417, PIXX 1212 and PIXX 2430  
FSC (Free Sales Certification) can be issued by KFDA



## US FDA 510K Approval

Smart ray [Prudent 1717], Smart Ray [Prudent  
1417], Smart Ray [Prudent 1212]  
PIXX 1717, PIXX 1417, PIXX 1212, PIXX 2430



## EU CE MDD

Smart ray [Prudent 1717], Smart Ray [Prudent 1417],  
Smart Ray [Prudent 1212]  
PIXX 1717, PIXX 1417, PIXX 2430



# Thank you



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