

# ERAY 43i/35i

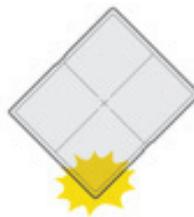
## (PIXXGEN-PRUDENT,KOREA)



### Premium Wireless Flat-Panel Detector



HIGH TECHNOLOGIES FOR HIGH PERFORMANCE



DURABLE AND ERGONOMIC DESIGN FOR MOBILITY



USER FRIENDLY AND CONVENIENT FEATURES

EDUSOFT and its technology partner PIXXGEN have been a pioneer in introducing innovative technologies for flat-panel detectors. From Auto Exposure Detection technology introduced in 2011, Its technology partner PIXXGEN has equipped the new technologies with a flat-panel detector such as a 17x17-inch cassette-sized detector, onboard storage, and web-viewer. These technologies introduced by PIXXGEN now became the standard features of the industry for the most of products available in the market. ERAY Prudent series detectors are once again built on the technologies one step ahead to contribute high sensitivity, high performance and high reliability flat-panel for imaging professionals. Various imaging sizes with robust and ergonomic design will allow the professionals to use the detector at any environment.

## HIGH TECHNOLOGIES FOR HIGH PERFORMANCE



**Low Dose IGZO TFT** Specially designed IGZO TFT for High Sensitivity and robust TFT will bring you 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 substrate, so that detectors can be operated in any mobile environment without any risk of physical impact.



**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 improves error and sensitivity generated during the detection compared to existing methods.



**Extended Battery Life**

The dual battery enables the detector to stay up to 14 hours in 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 using various charging cables.



## DURABLE AND ERGONOMIC DESIGN FOR MOBILITY

### LIGHT & ROBUST DESIGN WITH IP55

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



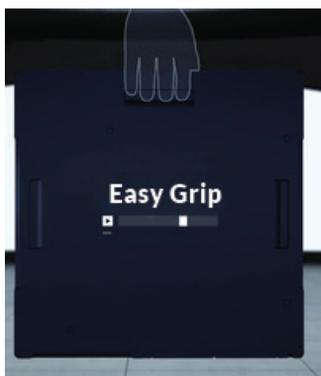
### 180KG WEIGHT BEARING

Prudent series detectors sustain up to 180kg on the whole surface.



### EASY GRIP & REMOVABLE HANDLE

The grips and rounded edges are located on each four side of the detector allow easy holding and lifting the Prudent Series. The handle, which can be mounted and detached without additional tools, helps the detector to be moved safely and conveniently.



## USER FRIENDLY AND CONVENIENT FEATURES

### VARIOUS & SIMPLE POWER CHARGING

The battery can be charged while installed within the Prudent series detector in two ways. The waterproof USB ports on the 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 for flexibility which operators can maneuver the cables in any direction.



### WEB BASE VIEWER & CONTROL

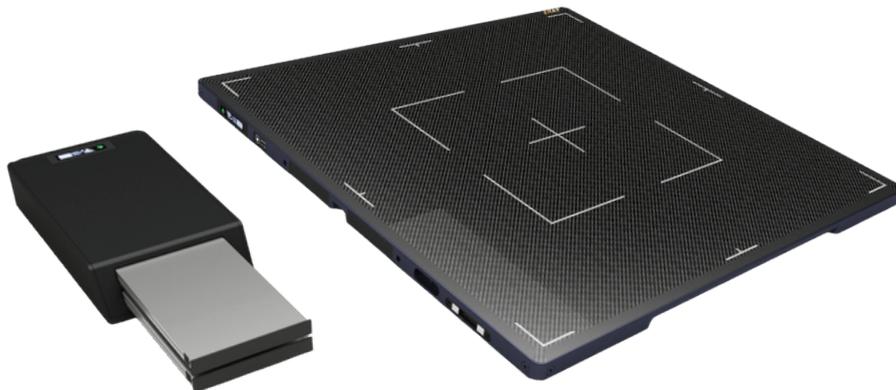
ERAY Prudent Series detectors also support Web Viewer technology which was introduced to the market for the first time by its technology partner PIXXGEN and now became a technical standard for flat-panel detectors. Acquired images can be viewed through any type of mobile devices based on iOS, Android or Windows in almost real time.

### ON-BOARD IMAGE STORAGE

Up to 150 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. This function maximizes the mobility of the detectors by allowing the user to have X-ray images with a detector and X-ray source which is minimum equipment configuration.

### STATUS MONITORING OLED

The OLED display provides information about Wireless/Wired connection status, Wireless Mode (AP), Battery level and IP address of the detector. The user can understand the detector status and take necessary actions if needed.



### DUAL BATTERY CHARGER

Battery can be charged while staying in the detector through power supply cables, however dual battery charger allows faster charging of two batteries at the same time.

## TECHNICAL SPECIFICATIONS

MODEL	ERAY 43i	ERAY 35i
APPLICATION	General Radiography	
CONVERSION SCREEN(SCINTILLATOR)	CsI/GOS	
TFT PANEL	a-Si/IGZO	
DIMENSIONS	461 x 461 x 15mm	385 x 461 x 15mm
WEIGHT INCL. BATTERY	<3.9Kg	<3.3Kg
PIXEL PITCH	140µm	
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	180Kg	
*DROP TEST	upto 50cm	
WATER & DUST RESISTANCE	IP55	
INNER STORAGE	<200 Images	<150 Images
BATTERY TYPE	Lithium-Ion-Polymer	
BATTERY'S FULL OPERATION TIME(MINIMUM)	Battery 12 hours	Battery 14 hours
IMAGE AREA SIZE	3,072 x 3,072mm	2,500x 3,052mm
X-RAY VOLTAGE MODE	40~150 kVp	
CALIBRATION MODE	ACC(Auto Calibration Control)/ Manual	
VOLTAGE	AC100~240V, 50/60 Hz, 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

## X-RAY CONSOLE

PROCESSOR	140µm
TOUCH DISPLAY	22" LCD Touch Display
RAM	8GB
SSD	1TB

## \*Clinical Images



NOTE: \*For reference purpose only

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