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# Saturn 8000 14x17 Wired

Portable Flat Panel Detector  
For Digital Radiography



**Saturn 8000 14x17 Wired** is a NMI's flat panel digital radiography cassette system with 14" x 17" coverage area for general radiographic applications using its unique image processing system and proprietary flat panel detector. With the same size as a film or a CR cassette, it is an excellent solution for upgrading conventional X-ray system. User friendly imaging software, DxWorks is compliant with DICOM 3.0 standard and provides consistent image quality at a dramatically reduced dose and faster image information with optimized algorithm for each different study. It only takes a few simple steps to acquire and transmit images to the DICOM server through Gigabit Ethernet.

## ***SATURN 8000***

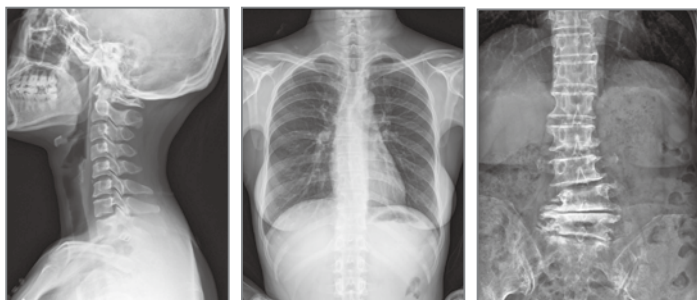
## Features

- \* Wide active area of 14" x 17"
- \* High spatial resolution with 140um pixel array
- \* Stable and reliable automatic exposure detection
- \* Viewer software running on Windows™ OS (DxWorks)
- \* Communication interface through Gigabit Ethernet (1000 BASE-T)
- \* Simple and easy integration with all kinds of digital radiography system

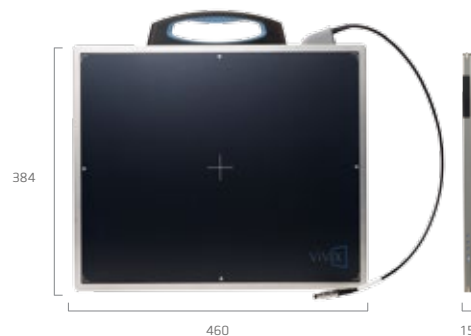


Configuration  
Detector  
System Control Unit

## Acquired Images



## Drawing



## Technical Specification

Application	General radiography
Technology	Flat panel detector : a-Si TFT with PIN diode
Scintillator	CsI:TI / Gd <sub>2</sub> O <sub>2</sub> S:Tb
Pixel Pitch	140um x 140um
Pixels	2,560 x 3,072 pixels
Image Size	14 x 17 inches (35 x 43cm)
A/D Conversion	14 bit
Grayscale	16,384 steps
X-ray Voltage Range	40 ~ 150kVp
X-ray Generator Interface	Line trigger : DR Trigger Mode Auto trigger : AED (Automatic Exposure Detection) Mode
Data Interface	Gigabit Ethernet (1000BASE-T) via PoE (Power over Ethernet)
Extension Cable	GigE communication and power supply (7m)
Dimensions	460 (W) x 384 (L) x 15 (T) mm
Weight	Approx. 2.9kg (GADOX) / 3.1kg (CsI)
Operating Environment	15 ~ 35°C, 30 ~ 85% RH (non-condensing)
Power	DC24V, 0.5A

\* Specifications are subject to change without prior notification.

FDA Approved  

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# Saturn 8000 14x17 Wireless

Wireless Portable Flat Panel Detector  
for Digital Radiography



**Saturn 8000 14x17 Wireless** is a NMI's 14" x 17" flat panel detector for general radiographic applications using its unique image processing system. With the size the same as that of CR cassette or films, it fits into almost all existing bucky trays. It is easy to acquire and instantly transmit images to the DICOM server through Wi-Fi network. The battery charger can recharge up to 3 batteries at the same time within 2 hours. An additional tether cable connection to the detector can also recharge the battery without removing it from the detector. AP mode enables customers to take X-ray examinations directly to a computer or a laptop with Wi-Fi connection. In case of disconnection of Wi-Fi network between the detector and the image acquisition software, the detector can save up to 100 images at its on-board memory. After resuming communication with the detector, all saved images can be transmitted to the software.

## ***SATURN 8000***

# Saturn 8000 14x17 Wireless

Wireless Portable Flat Panel Detector for Digital Radiography

# SATURN 8000

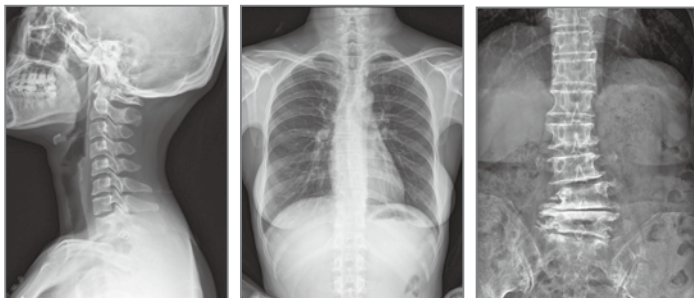
## Features

- \* Wide active area of 14" x 17"
- \* High spatial resolution with 140um pixel array
- \* Wi-Fi data transfer with dual band (2.4GHz and 5GHz)
- \* Stable and reliable automatic exposure detection
- \* Direct communication with smart devices
- \* Viewer software running on Windows™ OS (DxWorks)



Configuration  
Detector  
System Control Unit  
Charger

## Acquired Images





## Drawing



## Technical Specification

Application	General radiography
Technology	Flat panel detector : a-Si TFT with PIN diode
Scintillator	CsI:TI / Gd <sub>2</sub> O <sub>2</sub> S:Tb
Pixel Pitch	140um x 140um
Pixels	2,560 x 3,072 pixels
Image Size	14 x 17 inches (35 x 43cm)
A/D Conversion	14 bit
Grayscale	16,384 steps
X-ray voltage range	40 ~ 150kVp
X-ray generator Interface	Line trigger : DR Trigger Mode Auto trigger : AED (Automatic Exposure Detection) Mode
Wireless Interface	IEEE 802.11a/b/g/n (2.4GHz/5GHz dual band)
Dimensions	460 (W) x 384 (L) x 15 (T) mm
Weight	Approx. 3.3kg (GADOX) / 3.4kg (CsI)
Operating Environment	15 ~ 35°C, 30 ~ 85% RH (non-condensing)
Power	DC24V, 0.5A (Wired Mode) / 7.4V 4,000mAh Lithium Ion Polymer Battery

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# NMI

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# Saturn 8000 17x17N

Wide and Slim Portable Flat Panel Detector  
for Digital Radiography



**Saturn 8000 17x17N** is NMI's new slim portable flat panel detector for digital radiography with wide active area of 17" x 17". It features NMI's unique wireless communication method, AP mode allows users directly connect to the detector with laptops, tablet PCs and even smart phones. Furthermore, reliable automatic X-ray exposure detection enables integration with any kind of X-ray systems. Both CsI and GADOX scintillator types are available, with both wired and wireless configurations for each scintillator type.

## ***SATURN 8000***

## Features

- \* Wide active area of 17" x 17"
- \* Slim and portable
- \* High spatial resolution with 140um pixel array
- \* Wi-Fi data transfer with dual band (2.4GHz and 5GHz)
- \* Stable and reliable automatic exposure detection
- \* Direct communication with smart devices
- \* Viewer software running on Windows™ OS (DxWorks)

## Drawing





Configuration  
Detector  
System Control Unit  
Charger

## Technical Specification

Application	General radiography
Technology	Flat panel detector : a-Si TFT with PIN diode
Scintillator	CsI:TI / Gd <sub>2</sub> O <sub>2</sub> S:Tb
Pixel Pitch	140um x 140um
Spatial Resolution	3.6lp/mm
Pixels	3,072 x 3,072 pixels
Image Size	17 x 17 inches (43 x 43cm)
A/D Conversion	16 bit
Grayscale	65,536 steps
X-ray Voltage Range	40 ~ 150kVp
X-ray Generator Interface	Line trigger : DR Trigger Mode Auto trigger : AED (Automatic Exposure Detection) Mode
Wireless Interface	IEEE 802.11n (2.4GHz/5GHz dual band)
Wired Interface	Gigabit Ethernet (1000BASE-T) via PoE (Power over Ethernet)
Image Acquisition Time	1 sec (Wired) / 3 sec (Wireless)
Dimensions	460 (W) x 460 (L) x 15 (T) mm
Weight	Approx. 4.1kg (GADOX) / 4.2kg (CsI)
Operating Environment	15 ~ 35°C, 30 ~ 85% RH (non-condensing)
Power	DC24V, 0.8A, Max. 20W
Battery	Lithium Ion / 3,100mAh x 2 = 6,200mAh

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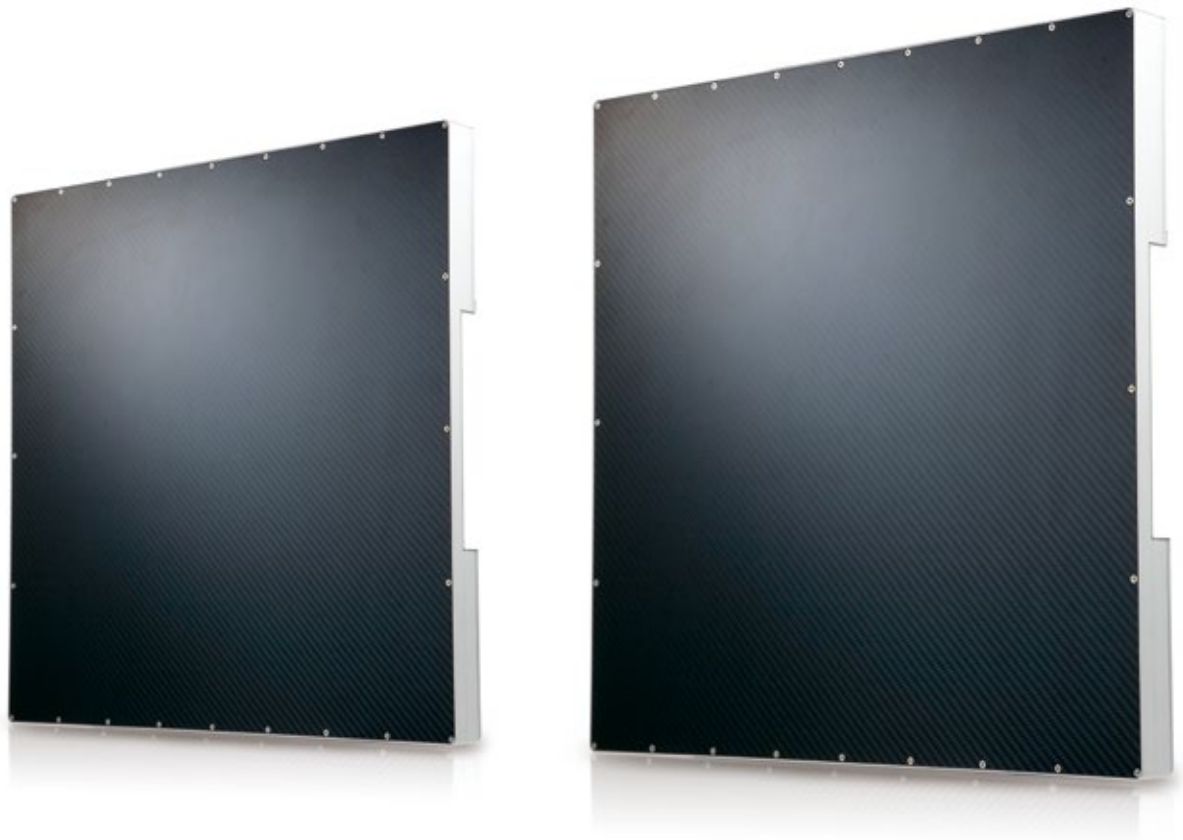
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# Saturn 8000 17x17

Flat Panel Detector for Digital Radiography



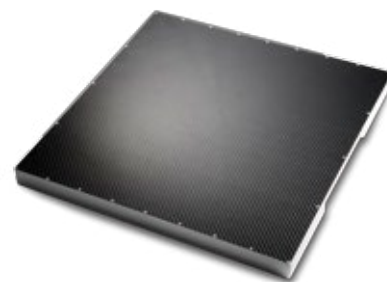
**Saturn 8000 17x17** is a NMI's flat panel detector with a large field coverage area of 17"x17", which is designed for general radiographic application using its unique image processing system and proprietary flat panel detector. The active 9.4 Mega-pixel sensor ensures superior image quality to meet market demand for precise diagnosis performance, which is made possible by the NMI's digital radiographic flat panel detector technology. With automatic exposure detection, Saturn 8000 17x17 can be used without connection to the X-ray generator. It works just like CR or film as it is triggered by the radiation, instead of a generator interface connection.

## ***SATURN 8000***



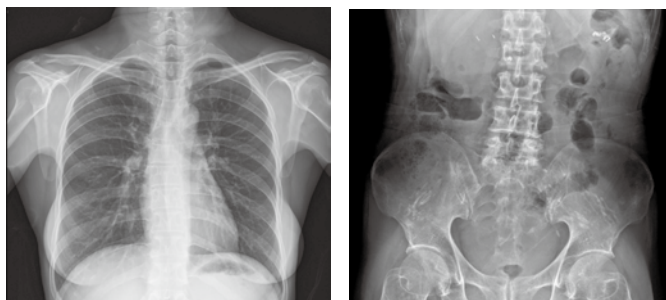
## Features

- \* Wide active area of 17" x 17"
- \* High spatial resolution with 140um pixel array
- \* Stable and reliable automatic exposure detection
- \* Viewer software running on Windows™ OS (DxWorks)
- \* Communication interface through Gigabit Ethernet (1000 BASE-T)
- \* Simple and easy integration with all kinds of digital radiography systems



Configuration  
Detector  
Power Supply Unit

## Acquired Images



## Drawing



## Technical Specification

Application	General radiography
Technology	Flat panel detector : a-Si TFT with PIN diode
Scintillator	CsI:TI / Gd <sub>2</sub> O <sub>2</sub> S:Tb
Pixel Pitch	140um x 140um
Pixels	3,072 x 3,072 pixels
Image Size	17 x 17 inches (43 x 43cm)
A/D Conversion	14 bit
Grayscale	16,384 steps
X-ray Voltage Range	40 ~ 150kVp
X-ray Generator Interface	Line trigger : DR Trigger Mode Auto trigger : AED (Automatic Exposure Detection) Mode
Data Interface	Gigabit Ethernet (1000BASE-T)
Dimensions	470 (W) x 470 (L) x 35 (T) mm
Weight	Approx. 11kg
Operating Environment	15 ~ 35°C, 30 ~ 80% RH (non-condensing)
Power	DC24V, 0.8A

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# Saturn 8000 10x12N

Versatile Portable Flat Panel Detector  
for Digital Radiography



**Saturn 8000 10x12N** is NMI's new portable flat panel detector for digital radiography in various applications such as neonatal, ENT, equine, and cephalometry, etc. with active area of 10" x 12". Its 124um pixel TFT sensor gives high resolution image and its Wi-Fi communication system provides fast wireless transfer speed. It enables users to directly connect to the detector with laptops, tablet PCs and even smart phones. Furthermore, it offers reliable automatic X-ray exposure detection, enables users to perform examination with any kinds of X-ray systems. The product is available in both CsI and GADOX scintillator types.

## ***SATURN 8000***

## Features

- \* Active area of 10" x 12"
- \* Various applications such as neonatal, ENT, equine and cephalometry
- \* High spatial resolution with 124um pixel array
- \* Wi-Fi data transfer with dual band (2.4GHz and 5GHz)
- \* Stable and reliable automatic exposure detection
- \* Direct communication with smart devices
- \* Viewer software running on Windows™ OS (DxWorks)

## Drawing





Configuration  
Detector  
System Control Unit  
Charger

## Technical Specification

Application	General radiography, neonatal, ENT, equine and cephalometry
Technology	Flat panel detector : a-Si TFT with PIN diode
Scintillator	CsI:Tl / Gd <sub>2</sub> O <sub>2</sub> S:Tb
Pixel Pitch	124um x 124um
Spatial Resolution	4lp/mm
Pixels	2,048 x 2,560 pixels
Image Size	10 x 12 inches (25 x 32cm)
A/D Conversion	16 bit
Grayscale	65,536 steps
X-ray Voltage Range	40 ~ 150kVp
X-ray Generator Interface	Line trigger : DR Trigger Mode Auto trigger : AED (Automatic Exposure Detection) Mode
Wireless Interface	IEEE 802.11n (2.4GHz/5GHz dual band)
Image Acquisition	1 sec (Wired), 3 sec (Wireless)
Dimensions	350 (W) x 287 (L) x 15 (T) mm
Weight	Approx. 2.1kg (GADOX) / 2.2kg (CsI)
Operating Environment	15 ~ 35°C, 30 ~ 85% RH (non-condensing)
Power	DC24V, 0.7A, Max. 17W
Battery	Lithium Ion / 3,100mAh

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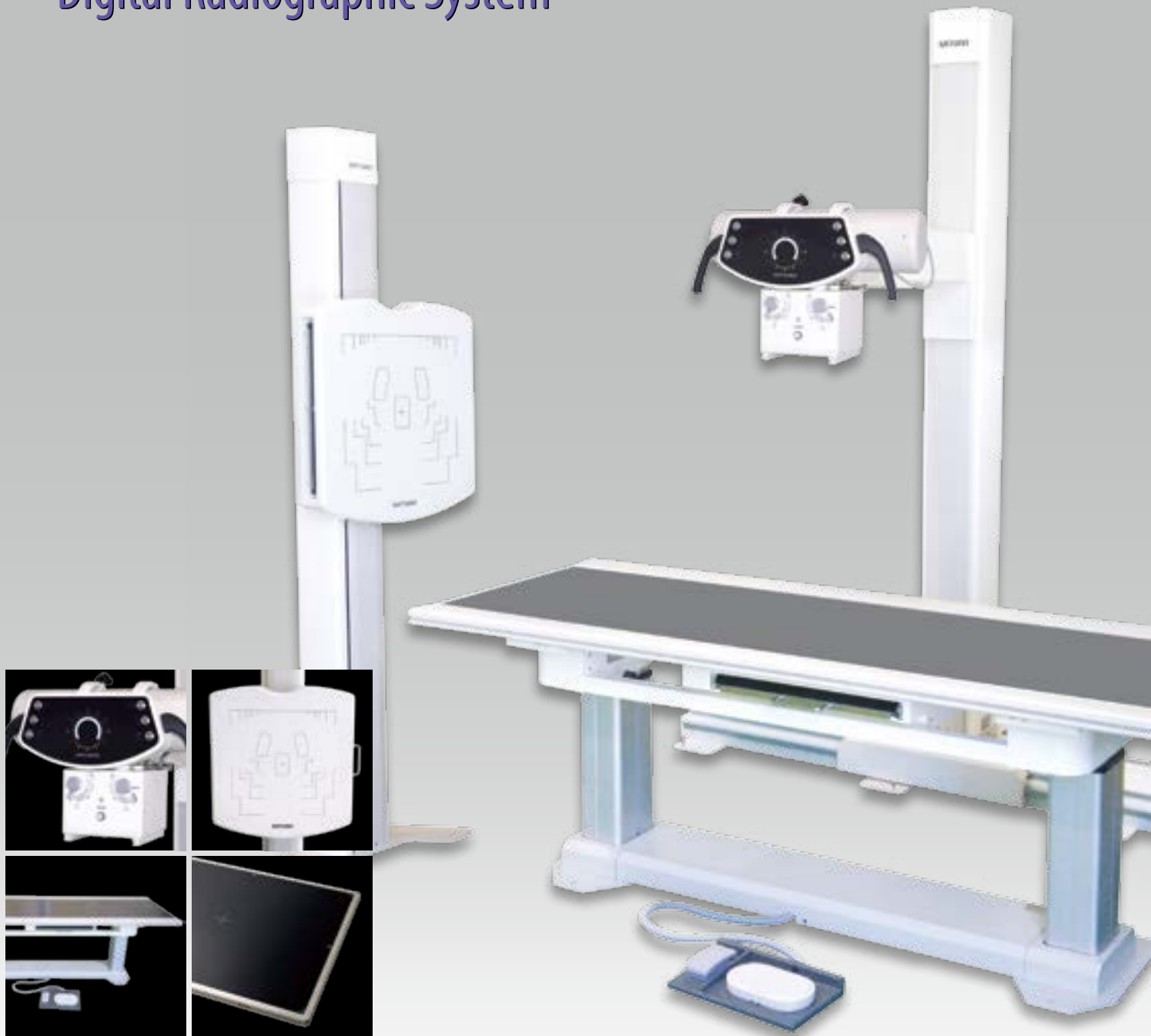
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# ***SATURN***

Digital Radiographic System



**SATURN**

**NMI**

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