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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

\* Specifications are subject to change without prior notification.

FDA Approved  

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# NMI