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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:Tl / 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

\* Specifications are subject to change without prior notification.



### Office

3F., NO.32, Sec. 2, Zhongyang S. Rd., Beitou Dist., Taipei City 11270, Taiwan  
Tel +886-2-2892-2275 Fax +886-2-2892-2172 E-mail Sales@newmedical.com.tw

### Factory

41-3, Burim-ro 170beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14055  
Republic of KOREA  
[www.nmi-dr.com](http://www.nmi-dr.com)