
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 Csl and GADOX scintillator types are available, with both wired and wireless configurations for each scintillator type.

SATURN 8000

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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 ₂ O ₂ 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.

FDA Approved  

Office

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