

## 510(K) Summary

K072984  
Page 1 of 2



1. **Date Prepared:** October 19<sup>th</sup> 2007

2. **Submitter:**

Company Name: New Medical Co.,LTD.

Company Address: 4F, No.42, SingZhong Rd., NeiHu District  
Taipei 114, Taiwan

Contact Person: Young-Hoon Shin, Diretor of R&D, [yhshin@newmedical.com.tw](mailto:yhshin@newmedical.com.tw)

Phone number: +886-2-8791-6268

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NOV 14 2007

3. **Proposed Device:**

Type of the Submission: Special

Reason For 510(k): Replacement of the component

Manufacturer: New Medical Co.,LTD

Trade Name: New Medical

Model Name: Saturn 9000-550

Regulatory Class: II

Classification Name: MQB, Solid State X-ray Imager

FDA 510(K) Number: To be assigned

4. **Predicate Device:**

Manufacturer: New Medical Co.,LTD.

Trade Name: New Medical

Model Name: Saturn 9000

Regulatory Class: II

Classification Name: MQB, Solid State X-ray Imager

FDA 510(K) Number: K063710

5. **Device Description:** The Saturn 9000-550 is equipped with a digital detector, X-ray generator interface, and image acquisition workstation. The digital detector is a-Se deposited plat panel detector. The input X-ray photons are absorbed in a-Se layer that creates an electrical charge which is representation of the X-ray input. The charge is read-out by a matrix scan of the array that converts the charges into a modulated electrical signal. X-ray exposure is controlled by switch box, which also controls the acquisition timing of the detector. Saturn 9000-550 includes acquisition workstation ("AWB") monitor,

keyboard and mouse, computer, electronics, and accessory storage. The resultant output signal can be transmitted to remote viewing sites, and/or it can be stored electronically for later viewing. The AWS is used for image acquisition, processing, and display. The AWS can also be used for database management and can send images to archive, review or filming.

The Saturn 9000-550 is substantially equivalent to the Saturn 9000.

6. **Indications for Use:** The Saturn 9000-550 system generates digital X-ray images that can be used for general X-ray system not for Mammography. The Saturn 9000-550 system can interface to traditional X-ray generator and get digital X-ray image. The Saturn 9000-550 is intended to be used in same clinical application as traditional film-screen based general radiography system.

7. **Comparison between Predicate Device and Proposed Device**

		Predicate Device	Proposed Device
		Saturn 9000	Saturn 9000-550
Detector	Technology	a-Se, Direct	a-Se, Direct
	Thickness of Se layer	450µm	450µm
	Imaging Area	14" X 17"	47" X 17"
	Detector Pixel size	139µm	168µm
	Image Bit Depth	14bits	14bits
	Image Data Interface	Camera Link	Camera Link
Control Box			Same as Saturn 9000
Switch Box			Same as Saturn 9000
Image Acquisition software		DxWorks	DxWorks (Same as Saturn 9000)
Accessories			Same as Saturn 9000



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Room - WO66-G609  
Silver Spring, MD 20993-0002

Mr. Young-Hoon Shin  
Director of R&D  
New Medical Company, Ltd.  
4F, No. 42, SingZhong Road  
NEIHU DISTRICT TAIPEI  
TAIWAN

**AUG 23 2013**

Re: K072984  
Trade/Device Name: Saturn 9000-550  
Regulation Number: 21 CFR 892.1680  
Regulation Name: Stationary x-ray system  
Regulatory Class: II  
Product Code: MQB  
Dated: October 19, 2007  
Received: October 23, 2007

Dear Mr. Shin:

This letter corrects our substantially equivalent letter of November 14, 2007.

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into class II (Special Controls), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

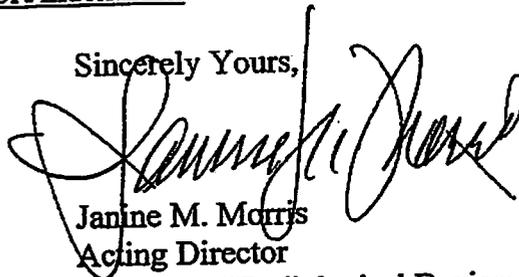
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of

medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Parts 801 and 809), please contact the Office of *In Vitro* Diagnostic Device Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely Yours,



Janine M. Morris  
Acting Director  
Division of Radiological Devices  
Office of In Vitro Diagnostic Device  
Evaluation and Safety  
Center for Devices and Radiological Health

Enclosure

## Indications for Use

510(k) Number (if Known): To be assigned K072984

Device Name: Saturn 9000-550

### Indications For Use:

The Saturn 9000-550 system generates digital X-ray images that can be used for general X-ray system not for Mammography. The Saturn 9000-550 system can interface to traditional X-ray generator and get digital X-ray image. The Saturn 9000-550 is intended to be used in same clinical application as traditional film-screen based general radiography system.

Prescription Use   V   AND/OR Over-The-Counter Use \_\_\_\_\_  
(Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

  
\_\_\_\_\_  
(Division Sign-Off)  
Division of Reproductive, Abdominal and  
Radiological Devices K072984  
510(k) Number \_\_\_\_\_