RF Co.,Ltd.

Direct Digital Radiography CCD Imaging Sensor

NAOMI

Improved Image Quality

Higher Sensitivity

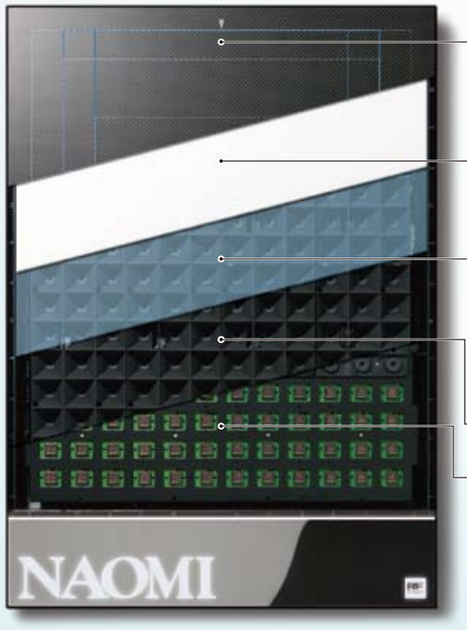
Thinner Body

Direct Digital Radiography CCD Imaging Sensor

Just got better & simpler!

No.1 Choice for Digital X-Ray

NEW Direct Digital Radiography CCD Imaging Sensor **NAOMI**



Structural image

Thinnest* CCD DR sensor

* RF research.

Carbon plate

To achieve high x-ray transmittance and block the other outside lights at the same time, a carbon plate is used for the front face of the sensor case.

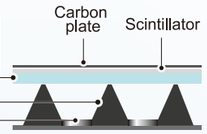
Scintillator

It converts the x-ray to visible light. Usually a scintillator is coated with embossing finish, but NAOMI's scintillator has a special mirror-like finish. The CCD sensors capture the light that passes through the scintillator.

Newly-Developed SC Plate

3D Light Shielding Units

Super-Sensitive CCD



Cross-Sectional view

Size	14"x17"
Max.Imaging Size	348×432 mm
Dimensions	395×551×60 mm

Multi-CCD Detector Method

RF's unique technology for higher image quality and affordable price.

The signal lines between control components and each CCD sensor are designed with the same length in order for 12 CCDs to receive the command at the same time. Normally, a single CCD makes a pair with a single control component to operate. However on Multi-CCD Detector Method, a single control component can send the command to multiple CCD sensors. By drastically reducing the number of components with this method, it has achieved the exceptional production cost reduction, high image quality and affordable retail price.

Improved Image Quality — Dynamic Range: Doubled; Contrast Ratio: Approx. 50% UP

Higher Sensitivity — Lower Does Approx. 50% Down

Thinner Body — Slimmer with the same max. imaging area size. — Dimensions: ~~474x589x62mm~~ Dimensions: 395x551x60mm

Achieves the highest image quality in the NAOMI history.

Newly-Developed SC Plate

Noise Reduction

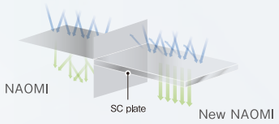
Absorbs the unnecessary x-ray noise that has not been converted with the scintillator, and extracts clearer lights to be detected.

Noise amount in area (Image)

Remove Scattered Light

Cuts off the scattered lights, and leaves uncluttered lights to sharpen the acquired images.

Scattered lights (Image)



Thinner Design

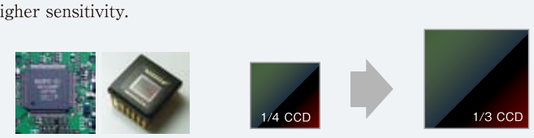
The streamlined structure of SC plate reduces the distance between CCD and top plate. This achieves the thinner design of housing.

3D Light Shields

Newly-adopted 3D light shields are used to block the unnecessarily incident lights more efficiently, leading to the improved contrasts with its anti-reflection material.

Super-Sensitive CCD

Adopted the 1/3 CCD that has a larger fill factor, in comparison to a traditional 1/4 CCD sensors. It improves the light collection and results in higher sensitivity.



Easy & Quick - Go Digital with Your X-Ray Machine

1. Exposure

Shoot an x-ray.

NAOMI transforms your office to digital by simply placing it instead of your film cassette. No need to handle the film cassette or imaging plate (IP) of CR. It is always ready to capture a crystal-clear x-ray image without any warm-up preparation.

2. Automatic Display

Display in 12 sec.*~

USB Cable

Network

A clear x-ray image displayed right after the x-ray exposure. Simple mouse control allows adjustment and enhancement on acquired images.

* Display time depends on the image acquisition area size. NAOMI can capture x-rays in 8"x10", 11"x14", or 14"x17".

3. Image Sharing

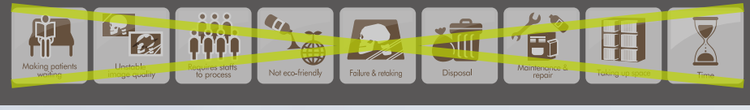
Easily shared with multiple workstations by simple operation.

Clear presentation and better understandings

It is digital so the x-ray images can be displayed on a big monitor for better informed consent.

Save Valuable Time

Not only will the DR gets rid of regularly incurring cost and annoyance of films, chemicals and processor maintenance, it is bringing you nothing but your dreamed work environment: efficiency in your clinic and high quality in x-ray diagnosis.



Much better and simpler!

The NAOMI was developed from the requests of doctors seeking a digital solution to fasten and simplify their x-ray process to have more time with their patients and clients, and provide a high level of clinical diagnosis with the minimum investment as possible.

It reduces troublesome tasks and simplifies the procedure related to the x-ray film development, empowering offices and staffs with digital tools.

Unlike film-based x-ray or CR with stressful and additional handlings, the NAOMI provides you a crystal-clear x-ray image on a monitor right after x-ray exposure. No handlings required, and it is always available for capturing x-rays.

The NAOMI replaces the film cassettes or CR plates, and transforms your existing x-ray setup to digital!

Manufactured by RF Co., Ltd. www.rfsystemlab.com/en/
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