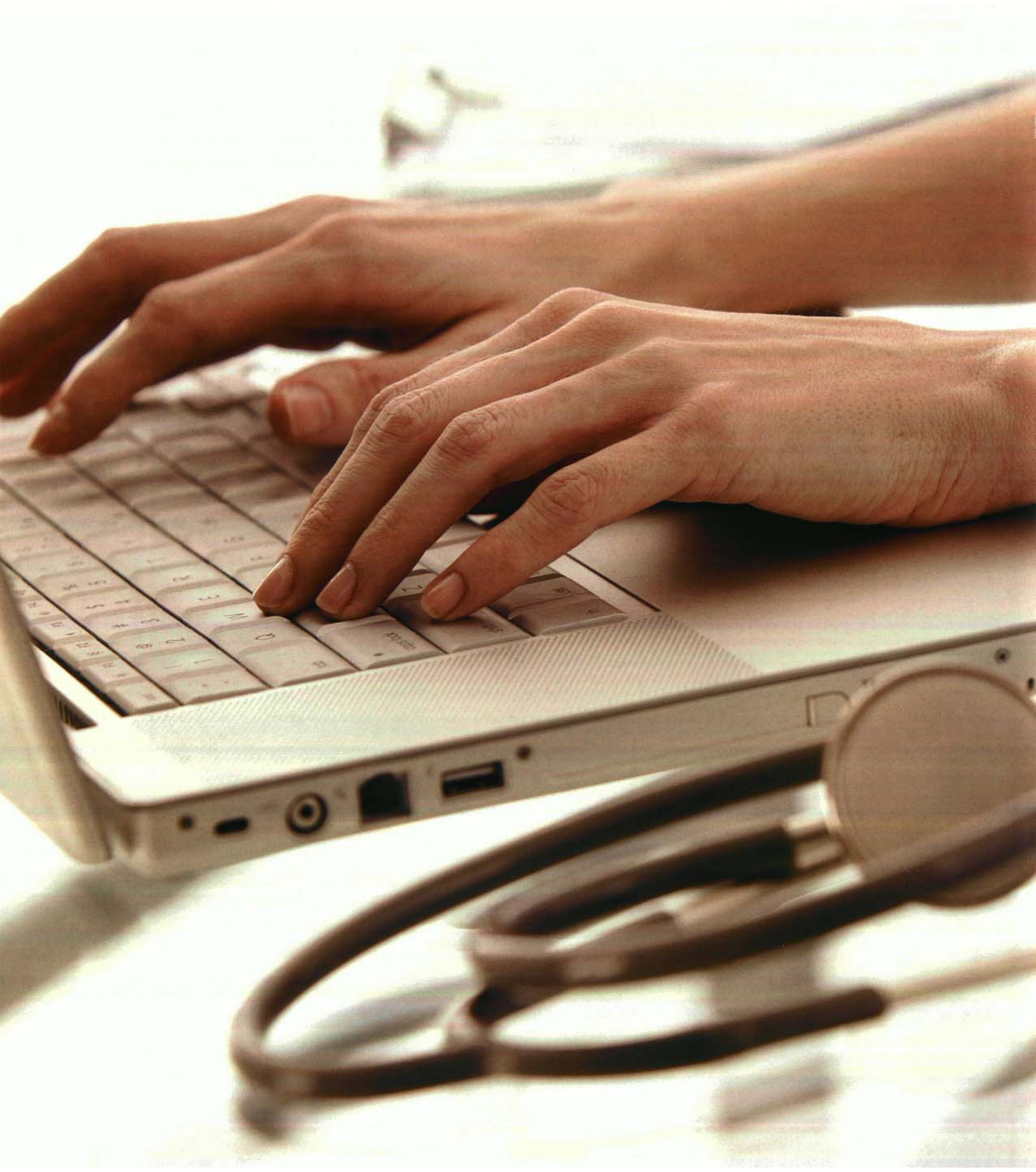
NCD
CORPORATION

www.ncdmedical.com

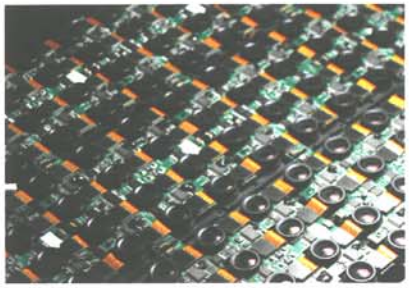
TECHNOLOGY



CCD

Cost effectiveness

NCD-DR is equipped with maximum of 190 CCD sensors. Most of DR systems on the market employ the flat panel method with "amorphous silicon". However, RF utilizes highly productive and versatile CCD sensors instead. This brought us the ability to provide the high image quality and low cost digital radiography sensor.



High sensitivity and high resolution

The NCD-DR CCD sensor has achieved the incomparable high concentration rate of light. Closely aligned CCD sensors enable to acquire every image by supersensitive scintillator, which produces sensational high quality images. The perfect combination of the CD sensors and advanced image processor made possible for much higher sensitivity and resolution.

Data Processor

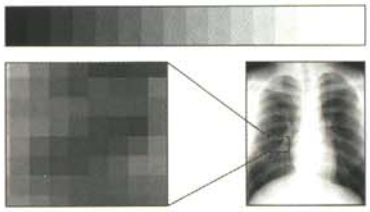
Advanced image processing technology

- Most advanced signal processing technology
  Newly developed high-resolution engine creates the image, which exceeds the quality of the film.
- Noise reduction
  The CCD signals and noise are separated with a high degree of accuracy to provide the image with less noise.
- Richly enhanced grayscale
  It only takes a single shoot to show from soft tissue to osseous part in smooth and widened contrast.

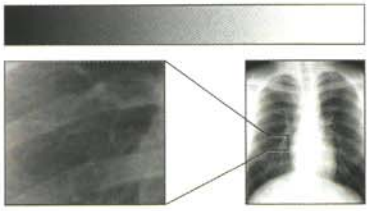
Gray scale

Gray scale is one of color modes with gradations of gray including absolute black , absolute white and in-between shades of gray. Wider the gray scale range on NCD-DR becomes, more vivid and clearer to see the parts in details and shade.

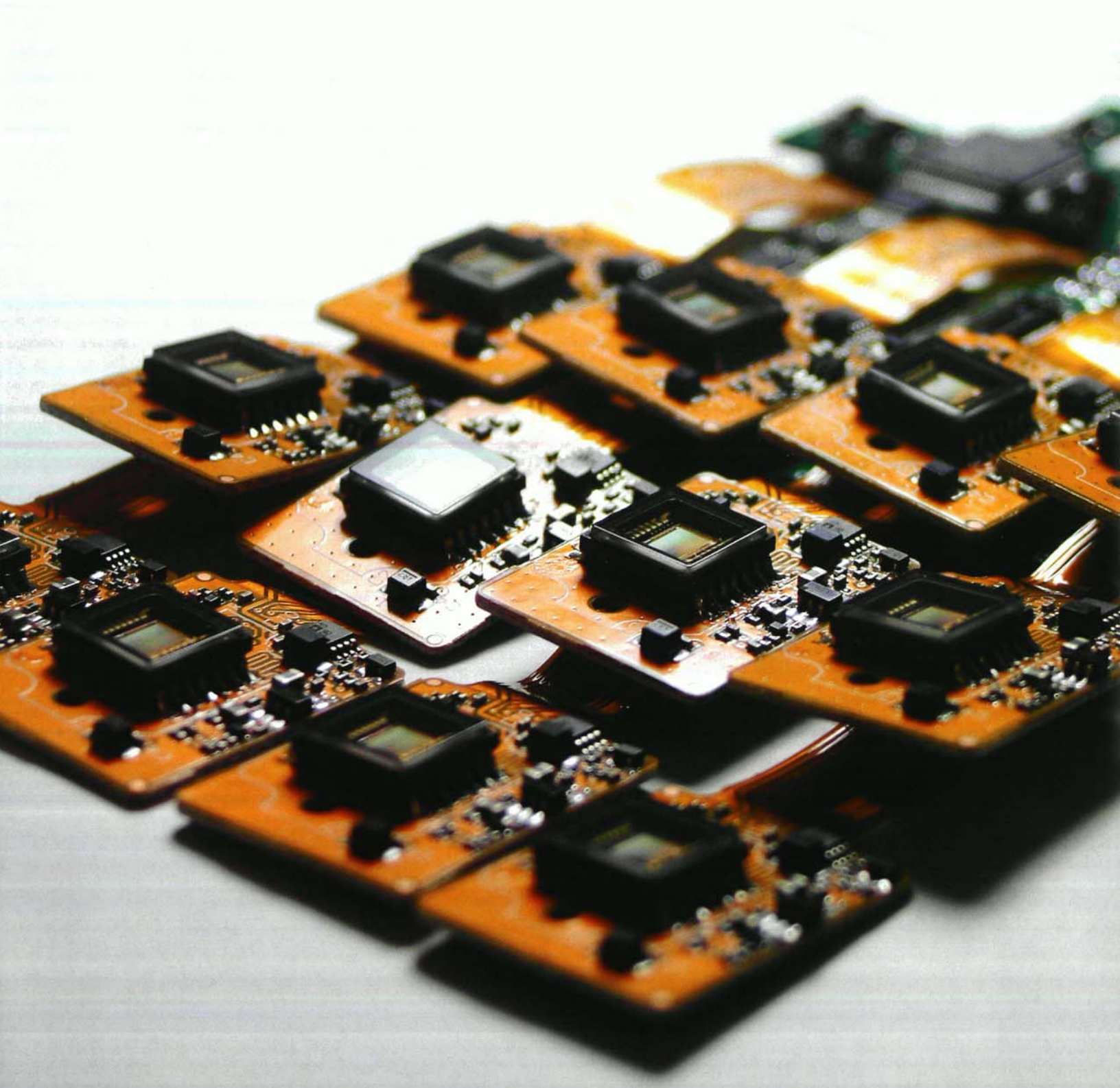
Digital camera : 256 gray scale



4,096 gray scale



FEATURES



Closely aligned CCD sensor with our innovative technology.

Hi-Quality

Satisfactory high quality digital image

The CCD image processing technology brings higher quality of digital image, as well as fast speed image processing. The captured image appears on the screen in a few seconds.

Application

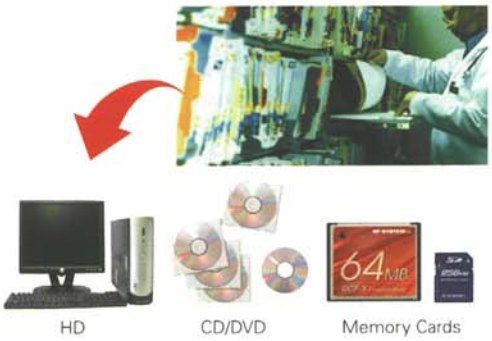
Absolute user-friendliness

The image software contains various available functions with a single click, such as contrast adjustment, negative-positive switchover, magnification, and length/angle measurement. The measured value or comment is displayed and saved on the image for easier information maintenance and sharing.

Data Management

Smooth data management

Digital image data is automatically saved to a folder. It only takes an instant to save, import and export images. The data is organized by patient ID for easy-to-search to increase practicality on behalf of doctors and staff to support more smooth medical care. The digitally captured date does not require any film storage space, and they can be stored in computer's hard disc, CD, DVD, and various memory cards.



DICOM

DICOM compatible

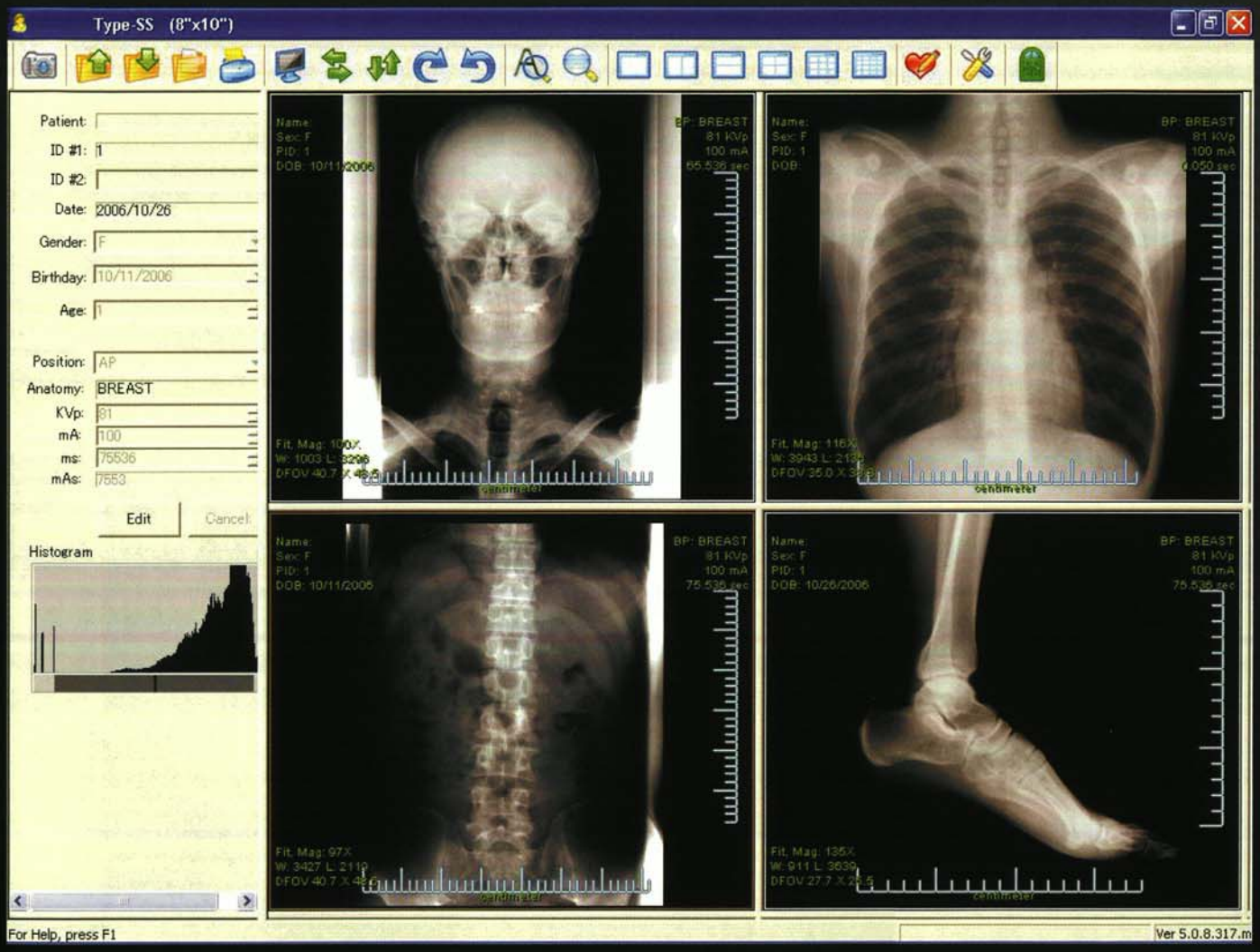
NCD-DR is compatible with DICOM* 3.0. It integrates with DICOM format system and device.

* DICOM (Digital Image and Communication Medicine)
A communication standard developed to be used by medical device manufacturers for medical image format acquired from CT, MRI, or digital X-Ray.

Digital Image Manipulation

Digital Image Manipulation - As simple as a digital camera

The image software (DICOM 3.0) provides easier access to digital image manipulation from magnification on the area of interest, length and angle measurement, contrast adjustment, negative-positive switchover, horizontal/vertical rotation, and side-by-side image layout for comparison. It can provide more information by a single image, which supports diagnosis from various angles.

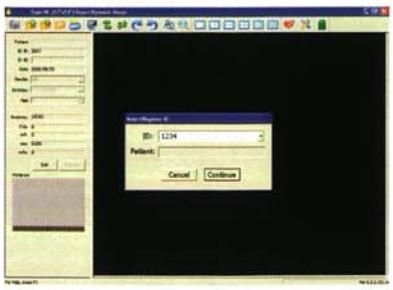


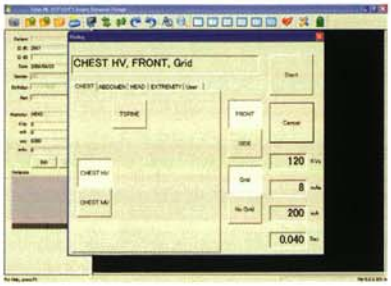
* DICOM (Digital Image and Communication in Medicine)

A communication standard developed by the American College of Radiology (ACR) and National Electrical Manufacturers Association (NEMA) for medical image format acquired from CT, MRI, or digital X-Ray.

Smooth workflow

■ Irradiation





1. Enter the patient information

Create a folder by the chart number or patient name.

2. Select Capture menu

Select body part according to the displayed specifications.

3. Irradiate

Current X-Ray generator in the clinic can be used.

Side-by-side Image Layout

It can display 2, 4, 9, and 16 images on the screen.

2 images

4 images

Negative/Positive Switch-over

The image can be displayed in both negative and positive.

Negative

Positive

Inversion / Rotation

It inverts or rotates the direction of the image.

Inversion

Rotation

Magnification

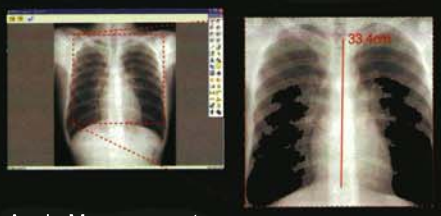
It magnifies an area of interest.

Annotation

Another window opens with the image to measure and create an annotation.

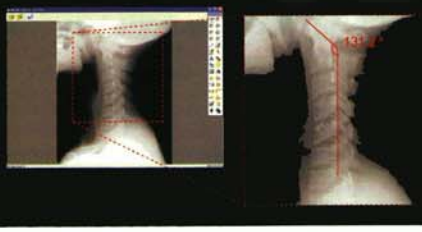
Length Measurement

The length can be measured directly on the image.



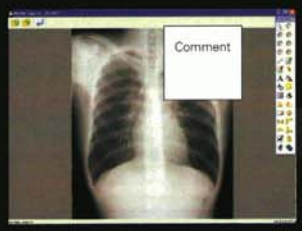
Angle Measurement

The angle can be measured directly on the image,



Text Insertion

Create a text box on the image to insert a comment.



much more...

Film Output

1. Confirm the image

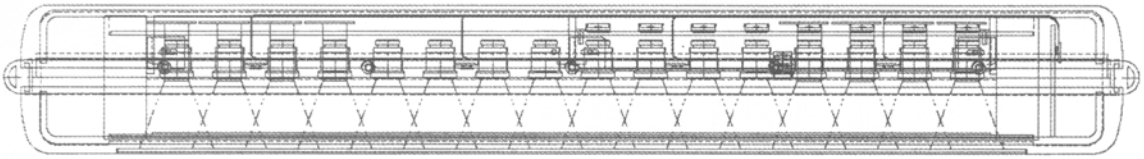
The captured image is displayed on the screen in a few seconds.

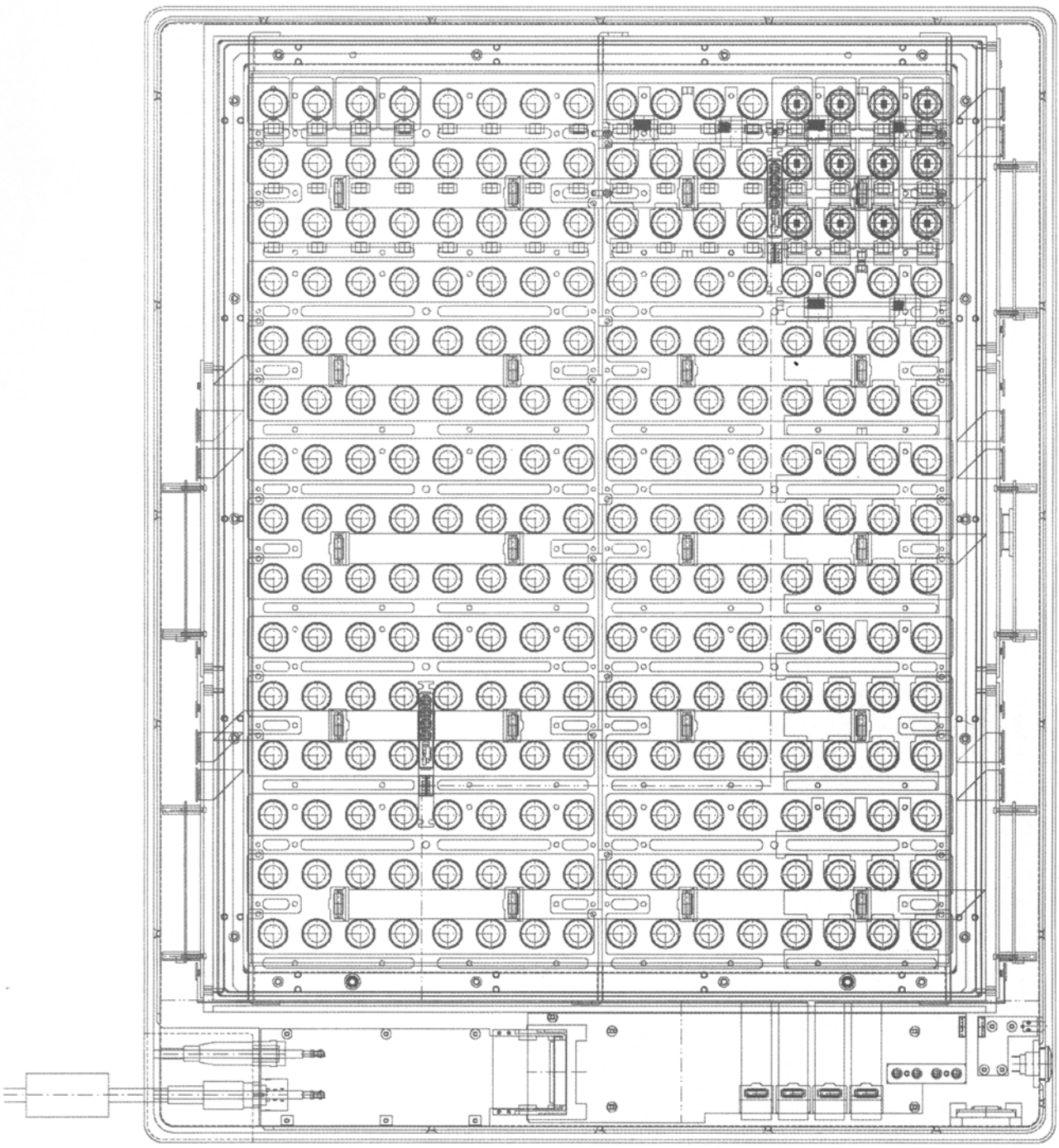
2. Select print menu

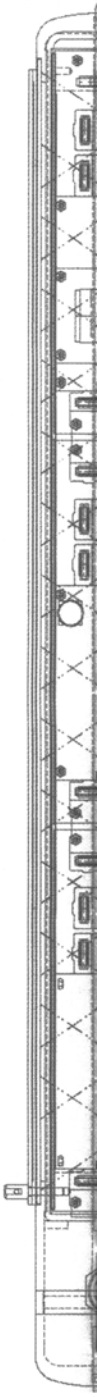
It can print multiple images on one sheet of the film.

3. Film Output

It does not require for film processing chemicals or darkroom.







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