GO *DIRECTLY* FROM CAPTURE TO DIAGNOSIS.

Introducing Kodak DirectView Digital Radiography Systems—solutions for your transition to digital imaging

Health Imaging

A Better View of Life.

Kodak

INTRODUCING THE DIGITAL FUTURE OF IMAGING...

KODAK DIRECTVIEW Digital Radiography Systems

The world of diagnostic imaging is changing and Kodak is ready to meet your needs. For general radiology applications, this means offering solutions for the digital capture of images. Now Kodak offers direct digital radiography systems that provide you with options for transitioning to digital. These solutions provide opportunities for productivity improvements while allowing you to maintain a high standard of patient care.

- Kodak DirectView DR 5000 system for upright chest exams
- Kodak DirectView DR 9000 system for general radiography and trauma exams

The family of Kodak DirectView DR solutions incorporates direct digital radiography technology to provide you with the high-quality images you expect from Kodak. In addition, these systems not only serve as a starting point for your digital migration, but are also part of a complete digital imaging solution which includes DirectView CR systems, DryView™ laser imagers, soft-copy displays, PACS, and RIS. With our imaging heritage, cutting-edge technology, and solutions for your film and digital worlds, trust Kodak for your diagnostic imaging needs now and in the future.

What are the differences in digital image capture?

All DR systems are not the same. Kodak systems feature a direct method of digital radiography, which delivers the highest image quality available in DR today. Kodak has chosen to use direct DR not only because of its excellent image quality, but also because it has the potential to be used across a variety of clinical applications. The Kodak DirectView DR product line, with its direct DR technology, is another example of Kodak's commitment to providing you with choices in high-quality radiographic imaging.

Today's DR technology uses two types of detectors—indirect and direct.

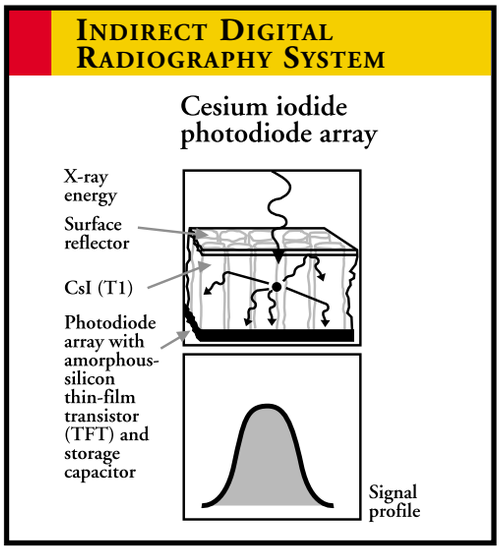
Indirect detectors use a two-step process that first converts x-rays into light and then converts that light energy into electronic signals. **Direct detectors** automatically convert x-rays into electronic signals.

Resultant image quality depends on signal profile and image resolution. Because indirect DR uses light as part of its conversion process, the signal profile is degraded and resolution is compromised due to image blur. Since the Kodak DirectView DR systems do not use light in the x-ray conversion, the signal profile and resolution are highly precise, yielding excellent image quality.

What is the difference between indirect and direct DR?

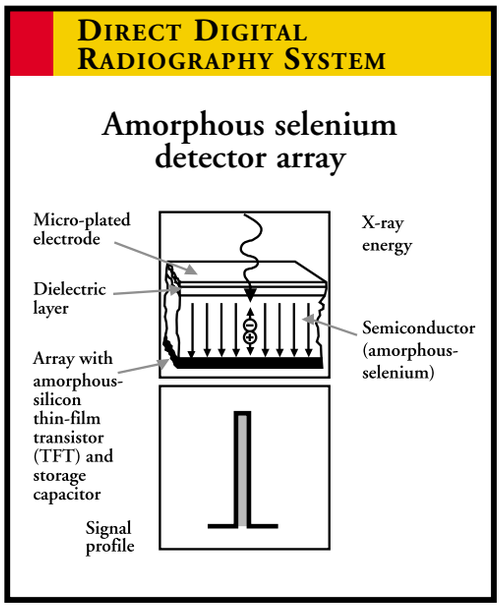
How does indirect DR work?

- Most indirect systems rely on a scintillation material (such as cesium iodide) to capture x-ray energy and convert it into light
- Light is then converted into electronic signals by an array of thin-film diodes and captured for readout by a thin-film transistor array
- Loss of spatial resolution may be corrected through reprocessing of the image, but as a result image noise will increase, which will compromise image quality



How does direct DR work?

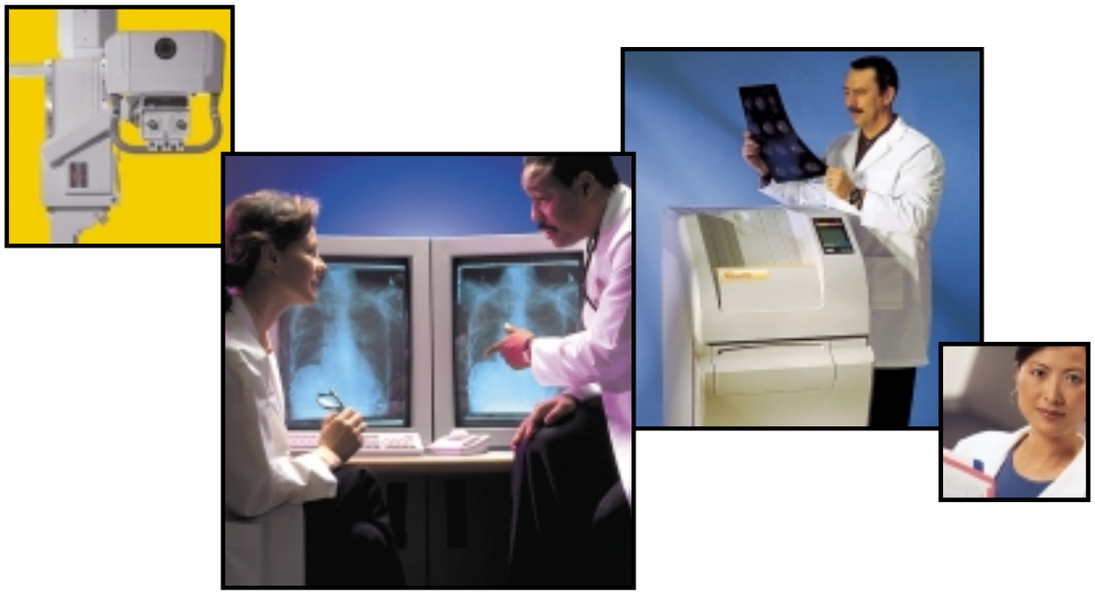
- The flat panel detector consists of an amorphous selenium semiconductor x-ray absorber coating over a thin-film transistor array of amorphous silicon
- In this system, x-ray photons are immediately converted into an electronic signal
- This immediate conversion eliminates the need for additional steps to capture and convert incident x-ray energy
- Corrective image processing, which can result in increased image noise, is reduced with the highly efficient x-ray energy conversion of direct DR



How will Kodak DirectView DR systems benefit you and your patients?

By using Kodak DR systems, you will have the capability to optimize patient care by streamlining your diagnostic imaging operation. With DR, users get a variety of benefits:

- Opportunity to reduce exam time—no need for cassettes, traditional processing, or exposure calculation time
- Improve quality of care by having technologist stay with patients rather than leave to process film or CR cassettes
- Potential to reduce patient radiation dose due to the need for less repeat exposures
- Opportunity to speed time to diagnosis with high-quality, soft-copy images
- Capability to make departments more cost-efficient by saving time, materials, and facilities
- Digital images available on a network for soft-copy review, improving both radiologist and referring physician productivity



THE DIRECT DR OFFERINGS FROM KODAK

KODAK DIRECTVIEW DR 5000 System

This direct digital radiography system is ideal for **upright chest exams** on most any patient. The unit consists of four major components:

- Direct x-ray capture system
- Operator console
- Chest and detector stand
- High-frequency x-ray generator, x-ray tube, and stand

KODAK DIRECTVIEW DR 9000 System

This full-room direct digital system is designed for **general radiology and trauma exams**. The system has five major components:

- Direct x-ray capture system
- Operator console
- Ceiling-mounted U-arm system
- High-frequency x-ray generator and x-ray tube
- Patient support device

INTEGRATED SOLUTIONS

Kodak is committed to collaborating with you to find the right solutions to meet your radiological imaging and information needs now and in the future. These icons stand as a reminder that we offer a variety of products and services to answer your specific workflow, system, and image quality requirements. Be sure to ask your Kodak representative for details on the compatibility of our digital radiography solutions with other products such as Kodak DirectView CR systems, Kodak DryView laser imagers, PACS, RIS, and imaging network services.

For more information, please call 1-877-TO KODAK (877-865-6325), ext. 227 or visit our website at www.kodak.com/go/health

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