Innovative technology from Fujifilm is changing the medical scene all over the world.

Having pioneered the world’s first digital X-ray system, the Fuji Computed Radiography (FCR), in 1983, Fujifilm has maintained its focus on building technological innovations and has been continuously offering new solutions to the medical field. We have gained recognition from medical institutions of all practices and to date*1 have sold over 70,000 digital imaging systems worldwide.

Our product line consists of the following: FDR, FCR, DRYPIX, SYNAPSE, and Film/Screen Systems.

First, we would like to introduce our Fujifilm Digital Radiography (FDR) line of products of which the FDR AcSelerate stands at the pinnacle. This product uses the revolutionary Direct Conversion hardware technology on its Flat Panel Detector and the Image Intelligence™ software technology in its Console Advance making it the DR product of the future. Another FDR product is our AMULET which is a unit specifically designed for mammography.

Next, we would like to introduce our compact FCR line of products which are best suited for those of you who have space restrictions or for those who want to use space more effectively. They include the PRIMA Series which are compact systems for small-volume X-ray facilities, the mobile FCR Go system, and the CAPSULA Series which are all-round units. Of the CAPSULA Series, the CAPSULA XLII is a system characterized in high processing capacity and 50-micron reading for mammography.

As for our console products, there is our Console Advance which can control multiple FCR and FDR devices from this unit alone. And, there is our FCRView whose interface and operability have been improved. Combining the capacity of an image viewer with operational and data administration capabilities, the FCRView and the PRIMA Console are the ultimate all-in-one workstations that give you functionality from X-ray taking to archiving of data.

Then, there is our DRYPIX series of dry imagers. Through technologies only available at Fujifilm, we can provide high-quality images to any medical institution on the globe at the fastest speed.

And, there is our SYNAPSE, an image and information management system which is installed in approximately 2,800*2 medical institutions worldwide. This number alone is a proof of its technological capability. This technology is now being applied to cardiology.

Last but not least, there is our Film/Screen Systems line of products.

Having gained our position as a leading company in medical imaging systems, we are totally committed to bringing about change to the medical field through our philosophy “Innovative Products through Continuous Progress.”

*1: As of end of September 2009
*2: As of end of December 2009
The FDR AcSelerate is the newest addition to our Fujifilm Digital Radiography (FDR) line of products. Building on our longstanding digital expertise and superior diagnostic image processing technology, we have developed the new Flat Panel Detector (FPD) which offers a remarkably high X-ray conversion characteristic. This FPD together with an innovative and easy-to-use X-ray unit form the AcSelerate product line. The FDR AcSelerate was created for you, our customer, so that we at Fujifilm can continue to demonstrate our strong commitment to diagnostic imaging for years to come.

**Image Quality**

- **Direct Conversion FPD** — the revolutionary flat panel from Fujifilm
  
  Our newly developed direct conversion FPD is at the heart of AcSelerate, providing high conversion efficiency. It allows more effective use of the X-ray energy and offers high-quality images with enhanced MTF and DQE, but with reduced radiation dose. Life-span and temperature control limitations, seen on traditional flat panels, have been greatly improved and our FPD offers superb durability while utilizing a simple air-cooling system.

- **Enhanced diagnostic value with a wide dynamic range and high resolution**
  
  Our FPD provides 150 micron resolution with image quality unparalleled by other systems. With its 16 bit dynamic range, even minimal X-ray absorption differences are clearly depicted within exams of targeted body parts such as the chest, and the bones and soft tissues in orthopedic exams.

**Operability**

- **Console Advance - Flexible for FDRs and FCRs**
  
  The Console Advance features the same functionality and intuitiveness as the CR Console, making it easy for existing FDR users to adopt the Console Advance and work efficiently. If both FDR and FCR systems are being used in the same department, images from both systems can be combined at the Console Advance, simplifying the workflow.

- **Fastest processing speed of its kind!**
  
  With AcSelerate things are quick in the X-ray room. The preview image is available on the Console Advance screen in only 2 seconds*, allowing quick review of the image. Additionally, cycle time between exposures is approximately 4 seconds*, allowing the technologist to work with speed and efficiency and making the process smoother for the patient.

- **Increasing efficiency with auto-positioning**
  
  By selecting the program from the exposure menu on the Console Advance, the X-ray tube automatically moves to the required position using the 5-axis motorized tube support. Manual adjustments can always be applied, however, the simplicity and accuracy of AcSelerate make manual movements a thing of the past!

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* All products require regulatory approval of the importing country. For details on product availability, contact your local representative.
We, the pioneer company that introduced digital diagnosis to the world of analog X-ray diagnosis, proudly present the new compact digital X-ray image processing unit of the FCR PRIMA Series. This product has been highly acclaimed by clinics and hospitals worldwide due to its durability of hardware and competency of after services. Because of its small size, this unit can be installed in any small office or clinic and still produce high-quality images equivalent to those of larger units.

This image reader is best suited for use in clinics and small hospitals because of its simple and compact design. Yet, it is equipped with a state-of-the-art image processing function. The FCR PRIMA Console is an image management workstation with easy-to-use menus that guide your operation from image taking to diagnosis. (The FCR PRIMA V Console is for veterinary use.)

This tabletop laser imager offers high-contrast and high-resolution images and helps to improve the accuracy of your diagnosis.

From digitalize to output, this is Fujifilm’s seamless workflow

**DIGITALIZE**
- A compact and lightweight reading unit with a footprint of only 0.24 m²
- Fujifilm’s Image Intelligence™ technology automatically enables stable and optimized high-quality images
- Flexible reading of images in various sizes from regular exam to pantomography
- Throughput of up to 29 images an hour

**READ/ARCHIVE**
- Image processing and viewing, and data archiving all done on one workstation
- Advanced image processing enables accurate diagnosis with simple operation
- Various diagnostic functions such as magnifying, measuring, and annotating
- Integrated management of image and patient data of up to 200,000 patients
- Copying of image data to a DVD or NAS (Network Attached Storage) as backup, requiring less storage space.
- Distribution of image data to patients using the PDI (Portable Data for Imaging) function

**OUTPUT**
- A compact and lightweight tabletop laser imager with a footprint of only 0.39 m²
- Five film sizes can be loaded to meet diagnostic purposes
- No need for a liquid disposal facility, a clean and user-friendly dry processing
- Free Layout Print enables you to lay out different studies on one film and print it out
- Speedy output of up to 70 films an hour

*All products require regulatory approval of the importing country. For details on product availability, contact your local representative.*
Focused Phosphor Technology applies an even thicker Focused Phosphor Plate now with the phosphor particles in a columnar structure which allows the stimulation light to penetrate deep into the phosphor layer and extract the Photo Stimulated Luminescence (PSL) that is generated through the surface of the Focused Phosphor Plate. As a result, both X-ray exposure efficiency and image quality have been enhanced.

**FDR VELOCITY Tfp**

The FDR for all supine-position exams and equipped with an exposure unit that can be extracted from under the tabletop for exposures of upper and lower extremities.

**FDR VELOCITY Unity fp**

The FDR for various X-ray exams either supine or upright. The X-ray tube and detector work in coalition, allowing exams of angular parts such as the knee, elbow, and skull.

**FDR VELOCITY Ufp**

The upright FDR best suited for chest exams and with functionality to lower the detector to a height of 47cm from the floor, enabling exposures also for lower extremities.

**FCR Go**

The FCR Go offers you the capacity to make X-ray exposures and preview images quickly and accurately just about everywhere. Whether it’s at the bedside, in the operating room, or within the intensive care unit, FCR Go lessens the inconveniences often experienced in making the rounds. This system truly enhances work efficiency by responding to the diversifying needs of hospitals.

**Mobility as you like it**

The dual motor drive allows free and smooth skating, with speed adjustment capability, and gives superb mobility even in tight spaces. Designed to be silent, you can comfortably move the unit at night time. A touch sensor is situated on the front of the unit, stopping the machine automatically when an obstacle is touched.

**Positioning as you need it**

The telescopic arm adjusts easily to the precise, desired position. The arm also has extended horizontal and vertical travel letting you use longer exposure distances for high-quality images. The X-ray tube also moves both horizontally and vertically, allowing desired positioning even when the arm is in a diagonal position.

**Lightweight cassettes make you smile**

The rugged, lightweight IP (Imaging Plate) cassettes, available in a variety of sizes, add to the precise positioning you need to deliver high performance in areas with limited space such as at the bedside. Various size IPs and cassettes fill a variety of studies.
FCR has remained the leader in the field for more than 25 years. FCR is a premium digital X-ray solution, offering the broadest product line to suit the requirements of nearly every imaging application. FCR’s leadership position is driven by uncompromised image quality, continued investment in technology innovation, development of systems with the highest productivity, and system implementation through the most experienced group of Professional Service individuals in the industry. FCR is the best possible solution for transition to digital at both large and small facilities.

FCR PRIMA
This product is one of the most compact and lightweight image readers on the market. Yet it is equipped with a state-of-the-art image processing function.

FCR CAPSULA X
High-quality and compact FCR for a broad range of diagnostic imaging. Small enough to fit almost anywhere - footprint 0.22 m².

FCR CAPSULA XLII
Equipped with state-of-the-art functions including an optional 50-micron reading kit for Mammography applications.*

FCR VELOCITY U
Ideally suited for chest imaging with advanced scanning and image processing capabilities; features include the HD LINESCAN Technology.

FCR VELOCITY T
Proven FCR technology for supine examinations with advanced scanning and image processing capabilities; features include the HD LINESCAN Technology.

FCR VELOCITY T

FCR XG5000
A high-efficiency FCR reader that offers quality imaging and all-round versatility for superior diagnostic capability.

FCR PROFECT ONE
Superior image quality with 20 pixel/mm sampling pitch mammography and pediatric imaging with four-cassette stacker.

FCR PROFECT CS

Imaging Plate and Cassette

IP ST-VI
FCR Imaging Plate for general purpose.

14" x 17" (35.4 x 43.2 cm)
14" x 14" (35.4 x 35.4 cm)
12" x 12" (30.3 x 30.3 cm)
8" x 10" (20.3 x 25.4 cm)

IP ST-BD
Standard Double-Side Imaging Plate for Pediatric imaging.

24 x 30 cm
18 x 24 cm

IP HR-V
FCR standard cassette with or without lead backside.

14" x 17" (35.4 x 43.2 cm)
14" x 14" (35.4 x 35.4 cm)
12" x 12" (30.3 x 30.3 cm)
8" x 10" (20.3 x 25.4 cm)

IP HR-BD
FCR long view cassette for Scoliosis.

35.4 x 124.5 cm
35.4 x 101.7 cm
35.4 x 83.0 cm
25.2 x 58.0 cm
24 x 57.0 cm

FCR Cassette for IP ST-BD.

IP Cassette Type CH
FCR special cassette for Hill-Rom readers.

14" x 17" (35.4 x 43.2 cm)
14" x 14" (35.4 x 35.4 cm)
12" x 12" (30.3 x 30.3 cm)
8" x 10" (20.3 x 25.4 cm)

IP Cassette Type LC
FCR long view cassette for Scoliosis.

25 x 35 cm
24 x 35 cm
23 x 35 cm
24 x 34.5 cm
24 x 34.5 cm

FCR special cassette for Scoliosis.

24 x 30 cm
24 x 30 cm

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Fujifilm Mammography Solutions

AMULET FUJIFILM DIGITAL MAMMOGRAPHY SYSTEM

Fujifilm’s revolutionary digital mammography system, AMULET, is equipped with a new type direct-conversion flat panel detector (FPD) that boasts the world’s smallest pixel size* of 50μm and also simultaneously realizes both high-resolution and low-noise images through a Fujifilm developed panel structure with a dual layer of amorphous selenium, and the world’s first Direct Optical Switching Technology. Indications of masses and microcalcifications are clearly depicted with superb high resolution, and even workflow time has been shortened by approximately 15 seconds for the waiting intervals from one exposure shot to the next. And the woman-friendly ergonomic design of the system until greatly reduces the stress and discomfort experienced with mammography exams.

FUJIFILM digital mammography applicable to

• In the U.S. and CANADA, the AMULET cannot be applicable to mammography. In other countries, the locally applicable regulations and/or guidelines should be followed.

• All products require regulatory approval of the importing country. For details on product availability, contact our local representative.

Higher image quality achieved using our proven FCR imaging technology

Program is a dedicated quality control program

Computer-Aided Detection

Fujifilm CAD

Fujifilm’s revolutionary digital mammography system, AMULET, is equipped with a new type direct-conversion flat panel detector (FPD) that boasts the world’s smallest pixel size* of 50μm and also simultaneously realizes both high-resolution and low-noise images through a Fujifilm developed panel structure with a dual layer of amorphous selenium, and the world’s first Direct Optical Switching Technology. Indications of masses and microcalcifications are clearly depicted with superb high resolution, and even workflow time has been shortened by approximately 15 seconds for the waiting intervals from one exposure shot to the next. And the woman-friendly ergonomic design of the system until greatly reduces the stress and discomfort experienced with mammography exams.

Fujifilm's New X-ray Sensor

The X-ray sensor employs a direct switching method and the panel is comprised of a dual layer of amorphous selenium. By extracting the image signal that is converted to an electric charge through the newly-developed Direct Optical Switching system rather than a conventional TPF switch, Fujifilm has reduced electronic noise and achieved a pixel pitch of 50μm.

Fujifilm’s exclusive amorphous selenium (a-Se) panel

Through the use of our device development technology and vacuum deposition technology, we have produced a highly-pure amorphous selenium, offering a higher X-ray conversion rate. In...through a Fujifilm developed panel structure with a dual layer of amorphous selenium, and the world’s first Direct Optical Switching Technology. Indications of masses and microcalcifications are clearly depicted with superb high resolution, and even workflow time has been shortened by approximately 15 seconds for the waiting intervals from one exposure shot to the next. And the woman-friendly ergonomic design of the system until greatly reduces the stress and discomfort experienced with mammography exams.

Higher image quality achieved using our proven FCR imaging technology

AMULET uses the mammography image processing technology from our proven FCR system. It provides high quality images that enhance visualization of the mammary tissue and offers greater detail of abnormal areas. Thus, AMULET will certainly help improve your diagnostic efficiency.
Fujifilm Dry Imagers mark a revolutionary breakthrough in dry imaging. They all provide extraordinary imaging capabilities, from clear and precise images with high diagnostic value, to advanced image networking potential. From small clinics to radiology departments in busy general hospitals, there’s a Fujifilm DRYPIX imager exactly suited to every workflow requirement.

DRYPIX 2000

DRYPIX 2000 is a compact and efficient tabletop dry imager. It supports multiple film sizes and is separable into two magazines. The DRYPIX 2000 is an optimal choice for small clinical settings or as a part of a dispersed system in large hospitals.

DRYPIX 7000

The remarkably efficient DRYPIX 7000 is designed as a centralized imager with a maximum of three film sizes. It has a built-in high-speed DICOM print server, enabling easy connection with all DICOM modalities through the network. An optional 10-bin film sorter provides added workflow efficiency.

DRYPIX PRIMA

The DRYPIX PRIMA is a lightweight tabletop dry imager with a foot print of only 0.39 m². This compact imager is able to output films in five different sizes with only one film tray, and has a free Layout Print which enables you to lay out different studies on one film and print it out.

DRYPIX 4000

The DRYPIX 4000 combines proven reliability and convenience with remarkable operating efficiency, all in a compact body. Boasting unrivaled image quality, networkability, backup security, and accessible price, DRYPIX 4000 is the ideal imager for medium-sized hospitals.

DRYPIX STATION

Optionally available DRYPIX STATION assures system reliability from films to processing. DRYPIX medical films employ unique aqueous solvents that are free from unpleasant odors and create neutral colored images so crisp, they’re indistinguishable from those printed on wet halide film. Additional ECO-DRY advantages include our development of new liquid-coating technology, which minimizes the need for harmful organic solvents like methyl-ethyl ketone and toluene in the thermal development of light-sensitive materials.

DRYPIX 2000 is a compact and efficient tabletop dry imager. It supports multiple film sizes and is separable into two magazines. The DRYPIX 2000 is an optimal choice for small clinical settings or as a part of a dispersed system in large hospitals.

DRYPIX 4000/7000’s Dry Laser Imaging System uses a photo-thermographic process, which combines laser exposure and thermal development. Following exposure to an ultra-precise laser, the photo-sensitive film is then uniformly heated using unique Fujifilm thermal element technology. Operating costs and efficiency benefit from the elimination of wet chemicals and their environmental implications.

FUJIFILM DRY IMAGERS

High quality images with high diagnostic value to the hands of the doctor

A variety of advanced features and technologies support the DRYPIX series, ensuring images of optimal quality as well as superb connectivity for ease of handling and usage.

DRYPIX support features

Higher Resolution

What customers consider most important for a dry laser imager is its reliability on stable and high printing quality where minute lesions can be clearly observed. The Fujifilm Dry Laser Imager applies extremely sharp laser beams with little blur that hardly affect the surrounding pixels, achieving high CTF and the output of sharp images. Merely using short interval (high dpr) scanning is not sufficient to obtain an absolutely clear image. With the exclusive Fujifilm Dry Image Films, the laser beam is prevented from scattering in the film during the recording of an image, resulting in images with virtually no blur due to the unscattered beam. That is why Fujifilm Dry Laser Imagers exhibit outstanding resolution beyond the stated dpi.

Wide-ranging Connectivity

With a built-in high-speed DICOM print server, connection is fast and error-free, allowing direct intercommunication with any modality linked to the network. An integral part of our new DRYPIX Print Networking System, networking capabilities set new standards in convenience and versatility.

Dry Imaging Film

Contributing to the DRYPIX series’ consistently high image quality and high throughput are Fujifilm’s industry-standard dry imaging films. Their clear, high-resolution images feature low minimum density and neutral image tone, making them comparable to those of conventional wet laser imagers. The films are available in a variety of convenient sizes.
Fujifilm’s SYNAPSE is a web-based medical imaging and information management system that integrates image and diagnostic information within a medical institution over a specified network. Operation has been made simple so that doctors, technologists, and hospital personnel can readily obtain required information anywhere and anytime. Images and past exam data from even separate modalities can also be displayed with high image quality and high-functionality, strongly supporting patient study needs.

**Facility Facts**
- 1.2 Million Annual Procedures
- 62 Radiologists
- 2,500 Referring Physicians
- 27 Image Acquisition Sites

**PACS Facts**
- Enterprise PACS
- Clustered PACS Database
- Clustered Multifunction Servers
- 40 Dual Display Workstations
- 160 Imaging Modalities
- IDX RIS

**Why Fujifilm?**

**Yale-New Haven Hospital**

*"The system has allowed us to create an enterprise-wide image distribution system. A case from 7 years ago can be requested, and it will be there right away..."*

**Mike Matthews**
Administrator Clinical Information Systems
Yale-New Haven Hospital
New Haven, CT

**Austin Radiological Association**

*"Our SYNAPSE PACS in combination with our high speed WAN and SAN is enabling us to further expand our practice and fuel additional growth. It will help us provide a superior service to our customers and achieve a level of efficiency not possible with other PACS approaches."*

**Neal Rutledge, MD**
Neuroradiologist
Chairman, IT Committee
Austin Radiological Association

**Why Fujifilm?**

*"CommonView™ was probably the most valuable aspect of our PACS implementation. It was the main differentiating feature among the systems we evaluated."*

**James Brink, MD**
Chief of Diagnostic Radiology
Yale-New Haven Hospital
Professor and Chairman Dept. of Diagnostic Radiology
Yale University School of Medicine
New Haven, CT

**Facility Facts**
- 300,000 imaging exams a year
- 944 beds
- 471 staff physicians
- 45 radiologists

**PACS Facts**
- 9 acquisition sites
- 60-70 diagnostic workstations
- 700 general viewing workstations
- 3,000-4,000 SYNAPSE users
- 160 imaging modalities
- Fuji CR
- Eclipsys and Tektronix HIS
- GE RIS
- PowerScribe and Talk Technology

Sudden, every department in your healthcare network, from the emergency room to non-invasive areas, is united with one database. You get a truly seamless integration of every modality. You are free to review patient studies and create comprehensive, customizable reports from a single workstation. You even have the power of advanced clinical tools right at your fingertips. And since it is completely scalable, you can be certain that you are always working with the latest technologies while still retaining all your historical data. This is the way to work efficiently and cost-effectively and the way to deliver the best possible care to your patients with SYNAPSE Cardiovascular.

**Facility Facts**
- 1617

**Why Fujifilm?**

*"All products require regulatory approval of the importing country. For details on product availability, contact our local representative."*
**Film/Screen Systems**

Capturing X-ray information precisely and sharply

Fujifilm’s renowned high-contrast, high-resolution orthochromatic X-ray films provide optimum images for diagnosis.

**General Usage Film**

**Super HR-T30/HR-U30**

Super HR-T30 is a new, high-contrast, high-resolution film for general radiography that provides consistently superb image quality. Super HR-U30 is a practical all-round film for general applications.

**AD System for Chests**

The Fujifilm AD System is an orthochromatic system that incorporates advanced technologies to provide high speed and sharpness with exceptionally low noise.

**AD Mamography System**

The Fujifilm AD Mamography System offers the latest film and screen technological advancements to ensure optimal image quality for mammographic applications. The system is designed to yield extremely high-contrast, 0-msec and sharpness with minimal noise.

**Mammography Film Systems**

**UM-MA HC Film**

UM-MA HC is a blue-base single-emulsion orthochromatic film for mammographic applications.

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### General Usage Film

<table>
<thead>
<tr>
<th>Film</th>
<th>Screen</th>
<th>HR Fine</th>
<th>HR Medium</th>
<th>HR Medium Plus</th>
<th>HR Regular</th>
<th>HR Fast</th>
<th>HR Ultra Fast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super HR-T</td>
<td></td>
<td>120</td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>600</td>
<td>800</td>
</tr>
</tbody>
</table>

### Mammography Film System

#### Screen Film

- Basic grayscale Print, CR Image Storage, Storage Commitment
- Electronic Shutter, Free Annotation, Image Composition, Auto-menu Selection, LUT Adjustment
- More Details (Ref. No.)
  - XB-465E
  - XB-764E, XB-964E

- Energy Subtraction, Pattern Enhancement Processing for Mammography

#### Film

- AD Mammo Fine
- AD Mammo Medium
- UM Mammo Fine
- UM Mammo Medium

- Processing Capacity: 30-270 images/hour
  - Up to 70 images/hour (with 2 trays)
  - Up to 55 images/hour (with optional tray)

- Density Adjustment: 1.7, 2.0, 2.2, 2.5, 3.0

- G.I. Series: Chest, Pelvis, Abdomen

- Speed: 120/150/180/200/240/300/400/600 ms

- MAMMOGRAPHY FILM RELATIVE SPEED

- Power Consumption (kW):
  - 0.7
  - 0.7
  - 0.7

- Weight (kg):
  - 350

- Ad is the adaption of the product (AD-M).