

Changing the worldwide medical scene with a stream of innovative products.

FUJIFILM Medical Systems
Product Profiles

Gentle Touch. Brilliant Image.

Since pioneering the world's first digital X-ray system Fuji Computed Radiography (FCR) in 1983, Fujifilm has maintained its focus on technological innovations and now offers yet another new solution to the medical field, Fujifilm Digital Radiography Systems (FDR).

Utilizing ISS-Csl Technology, FDR realizes both high image quality and reduced x-ray exposure, broadening our product lineup.

Fujifilm's superb technologies and diversified products have gained recognition from medical institutions of all practices worldwide.

Having established a position as a leading company offering medical imaging systems, Fujifilm totally commits itself to bringing changes to the medical field under the philosophy of delivering "Gentle touch. Brilliant Image."



Introduction

FDR Solutions

- FDR AcSelerate
- FDR D-EVO Suite
- FDR D-EVO Series (G35i/s, C35i/s, G43i/s, C43i/s, C24i/s)

Mobile Solutions

- FDR Go
- FDR Go flex

FCR Solutions

- FCR PRIMA T2 / FCR PRIMA II / FCR PRIMA
- FCR CAPSULA XLII / CAPSULA X
- FCR PROTECT CS Plus
- FCR PROTECT ONE Plus
- FCR XG5000 Plus

Mammography Solutions

- AMULET Innovality
- AMULET f / AMULET s
- AWS (Acquisition Workstation)
- Mammography QC Program
- Fujifilm CAD (Computer-Aided Detection)
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- AMULET Bellus

Dry Imagers

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- DRYPIX Plus

Console / Workstation

SYNAPSE (PACS)

Film & Screen Systems

Fujifilm opened up a new frontier

Fuji Computed Radiography (FCR), the first digital radiography system in the world was released in 1983. FCR was developed through Fujifilm's pioneering of a new field, leading to widespread digitization of radiography as well as the evolution of diagnostic imaging.

"Gentle touch. Brilliant image."

The latest modality in the world at that time, FCR brought about a drastic change in medical X-ray imaging diagnostics.

With the pioneering spirit and expertise in technologies nurtured through the development of FCR, Fujifilm will continue to develop new products that contribute to examinations more friendly to patients, technologists and radiographers, always focusing on a better future.



1983 World's First FCR FCR101



2001 FCR XG-1



2006 FCR CAPS ULA



2009 FDR AcSelerate



2010 FDR D-EVO

1988 FCR7000 Series



2003 FCR PROTECT CS



2008 AM ULET



2009 FCR PRIMA Series



FCR
30th
—Since 1983—

Since the development of FCR101 the highly acclaimed world's first digital X-ray imaging diagnostic system, the FCR series has been constantly evolving to achieve faster processing speeds in more compact bodies. Our FCR systems are now distributed widely, recording sales of more than 100,000 units across the world*. To realize digitization of X-ray images, we endeavored to learn the true ability of film. This effort has served as a foundation for us to create the next-generation X-ray diagnostic imaging systems. Technologies gained through development of FCR are now used in a variety of Fujifilm's products.

With our pioneering spirit and capability to create advanced technologies, we keep introducing new products, always looking into the future.

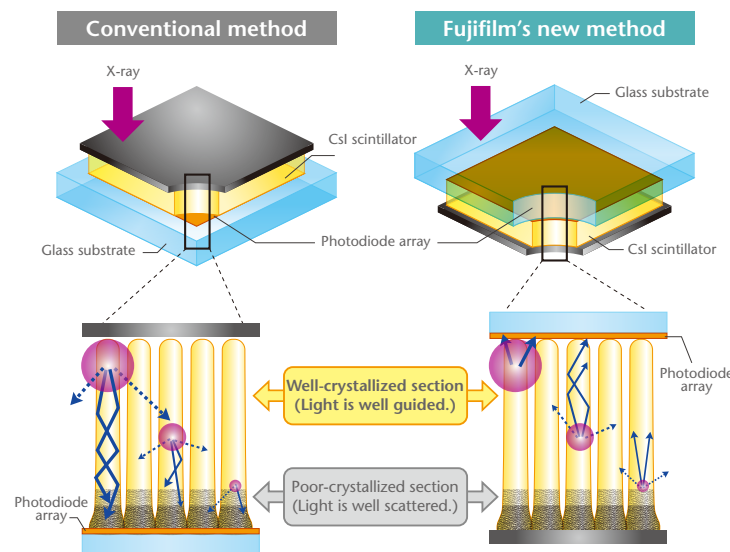
*As of October 2013

Fujifilm's original technology

For General Purpose



Gentle touch. — CsI scintillator + ISS technology



The novel type CsI:TI FPD, combining an adhesively coupled structure with ISS method, exhibits significant improvement in image quality than conventional CsI:TI FPDs and provides a way to reduce X-ray exposure to the patient.

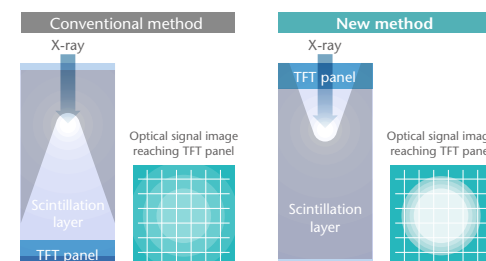
CsI scintillator

Fujifilm's new Flat Panel Detector capitalizes on the high X-ray absorption characteristics of CsI and the ability of its needle crystals to deliver high image sharpness. In addition application of the company's proprietary ISS technology has allowed even greater improvements in image quality, and lower patient dose, when compared to conventional CsI detectors.



ISS technology

"ISS technology" sees the TFT sensor placed in front of the scintillation layer instead of its traditional position behind it. This technology permits a higher resolution image and reduced doses.



Dynamic Visualization

Brilliant Image. — Dynamic Visualization



Conventional image



New image



Customised image

Fujifilm's renowned diagnostic image quality has now evolved still further. Leveraging its world leading image processing technology, built on a long heritage in medical imaging, and its endless pursuit of improvements in diagnostic imaging, Fujifilm's CONSOLE ADVANCE is more than able to meet the exacting demands of the modern medical market.

Fujifilm's image processing technology automatically recognizes the region of interest and applies the optimum image processing parameters in order to deliver reproducible, high quality images every time. This greatly streamlines workflow thus reducing the load on Technologists and speeding up diagnosis for Doctors.



for Mammography

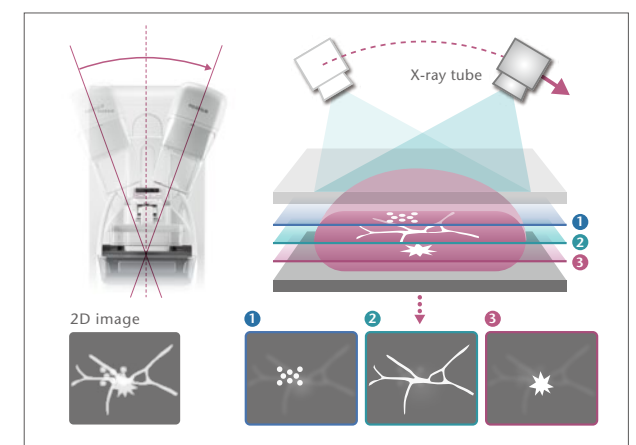


Fujifilm's original dual mode Tomosynthesis

In breast tomosynthesis, the X-ray tube moves through an arc while acquiring a series of low-dose x-ray images. The images taken from different angles are reconstructed into a range of Tomosynthesis slices where the structure of interest is always in focus.

The reconstructed tomographic images make it easier to identify lesions which might be difficult to visualize in routine mammography because of the presence of overlapping breast structures.

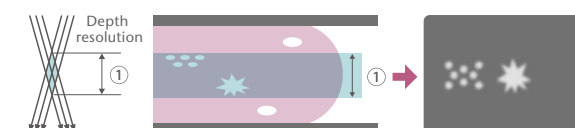
The Tomosynthesis function on AMULET Innovality is suitable for a wide range of uses, offering two modes to cater for various clinical scenarios. Standard (ST) mode combines rapid exposure timing and efficient workflow with a low X-ray dose while High Resolution (HR) mode makes it possible to produce images with an even higher level of detail, allowing the region of interest to be brought into clearer focus.



• ST (Standard) mode

Angular range: $\pm 7.5^\circ$ Pixel pitch: 150/100 μm

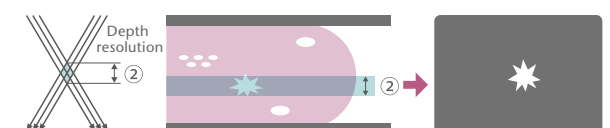
The smaller angular range and fast image acquisition allow Tomosynthesis scans to be quickly performed with a relatively low x-ray dose.



• HR (High Resolution) mode

Angular range: $\pm 20^\circ$ Pixel pitch: 100/50 μm

With a larger acquisition angle the depth resolution is improved. This allows the region of interest to be defined more clearly and brought into clearer focus.



Digital radiography (DR) provides immediate imaging results for the operator, reducing the patient’s waiting time. Our advanced DR products deliver productivity gains for radiologists and maximized image quality.

Fujifilm’s highest-class FPD system

FDR AcSelerate

CsI
Scintillator
→ page 6

ISS
Technology
→ page 6

Dynamic
Visualization
→ page 6

FDR AcSelerate, with its built-in ISS-CsI panel, performs high-speed processing. The panel offers the world’s highest level DQE realized by Fujifilm’s proprietary technologies, enabling patient-friendly exposures to be performed at a low X-ray dosage and superior quality images to be produced smoothly. Various options make more advanced image processing possible, helping radiologists perform effective diagnostic imaging.



*Optional parts are included in the above image.

A ceiling mounted X-ray system available at a low cost

FDR D-EVO Suite

Cassette Tray
→ page 6

ISS
Technology
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Dynamic
Visualization
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FDR D-EVO Suite, with the user-friendly design, offers auto-tracking of the table’s vertical movement by X-ray tube as a standard function. The combined use with Fujifilm’s console enables exposures to be smoothly performed. From Fujifilm’s cassettes of different sizes and types such as wired/wireless, you can choose the best one for your purpose.



*Optional parts are included in the above image.

• Tomosynthesis (optional)

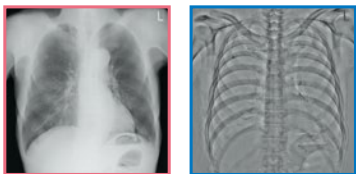
*FDR AcSelerate only



Tomosynthesis is an advanced radiography application to produce multiple tomographic slices with a single sweep of the X-ray tube. With the FPD featuring a pixel pitch of just 150 μm, ISS technology and image processing technology, high quality tomosynthesis images are obtained easily, enabling more accurate diagnosis.

• Energy Subtraction (optional)

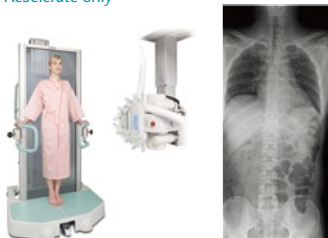
*FDR AcSelerate only



Energy subtraction (ES) is the technology which utilizes the difference of X-ray absorption characteristic. Patient’s heartbeat and minor movement between exposures occasionally cause a misregistration image. Fujifilm’s own technology Multi-Stage Registration (MSR) suppresses these motion artifacts.

• Image stitching function (optional)

*FDR AcSelerate only



The Automatic Image Stitching combines multiple images into a single image for viewing a wide area.

- Available range is up to 180 cm with 5 exposures (25 sec.) for the upright stand and 80 cm with 3 exposures (20 sec.) for the table.
- For long-view imaging, an easily connectable patient stand is available from Fujifilm, providing optimized usability.

• Flexible Cassette Tray (optional)

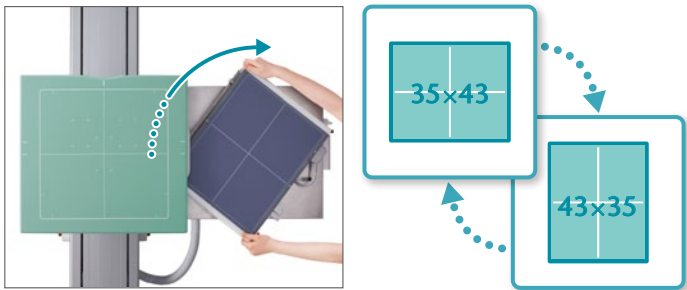


When fitted with the cassette tray, AcSelerate accommodates a wide range of free exposure positions. You can also use the cassette for FDR Go flex in this system by pre-registering it.

Note: When the cassette tray option is installed, some of the advanced functions cannot be used.

• No need to remove/reinstall cassettes to change orientation

*FDR D-EVO Suite only



It is possible to rotate a cassette installed in the exposure table/stand 90 degrees to change the orientation. With no need to remove and reinstall the cassette, exposure procedures are smoother than ever.

Digital radiography (DR) provides immediate imaging results for the operator and less waiting for the patient. Our advanced DR products deliver productivity gains for radiologists, while maximizing image quality.

FDR D-EVO G35i/G35s

35×43

ISS
Technology

Wireless
(G35i only)

SmartSwitch

..... page 6

Indirect conversion FPD system for general X-ray exposure, compatible with all X-ray systems.



FDR D-EVO G43i/G43s

43×43

ISS
Technology

Wireless
(G43i only)

SmartSwitch

..... page 6

The world's first 43 × 43cm DR cassette achieved in pursuit of enhanced operability.



Wireless

Wireless *For G35i, G43i, C35i, C43i and C24i (wireless)

Wireless mode

Wireless mode enables free positioning with easy handling. When used as a wireless portable type, table-top exposures are easily performed, allowing exposure situations to be expanded.

Wired mode

With the cable attached, the battery in the cassette can be charged. X-ray procedures run smoothly without any worry about the state of the battery.

SmartSwitch

SmartSwitch

Fujifilm developed a new technology "SmartSwitch" which allows automatic X-ray detection. With "SmartSwitch," FDR D-EVO no longer requires connection between the X-ray generator and DR power supply unit to automatically detect X-rays and start image creation.

FDR D-EVO plus C35i/plus C35s

35×43

CsI
Scintillator

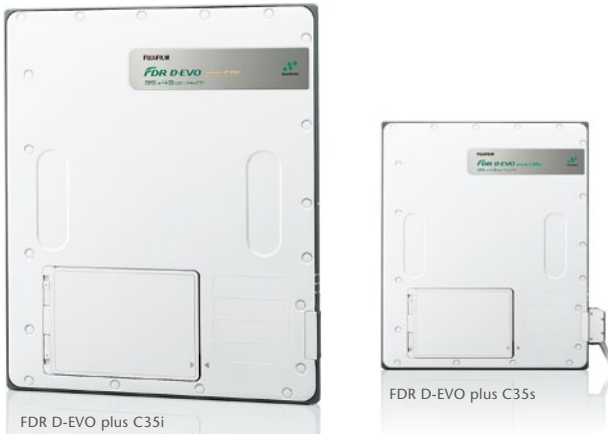
ISS
Technology

Wireless
(C35i only)

SmartSwitch

..... page 6

A novel cassette which allows more precise examinations with greatly reduced burden on patients.



FDR D-EVO plus C43i/plus C43s

43×43

CsI
Scintillator

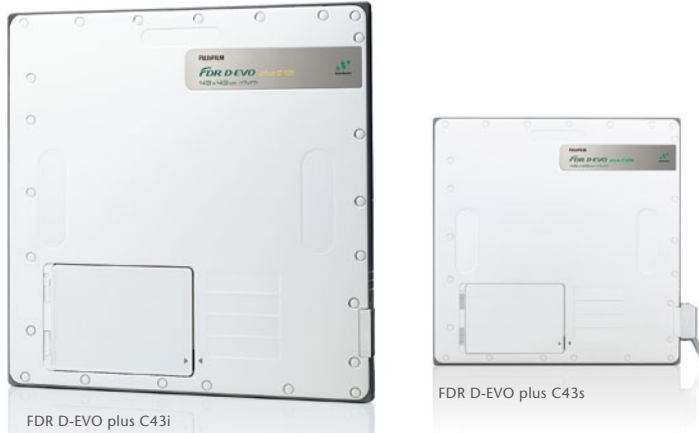
ISS
Technology

Wireless
(C43i only)

SmartSwitch

..... page 6

Versatile square shaped cassette offering superior image quality with low dosage.



FDR D-EVO plus C24i/plus C24s

24×30

CsI
Scintillator

ISS
Technology

Wireless
(C24i only)

SmartSwitch

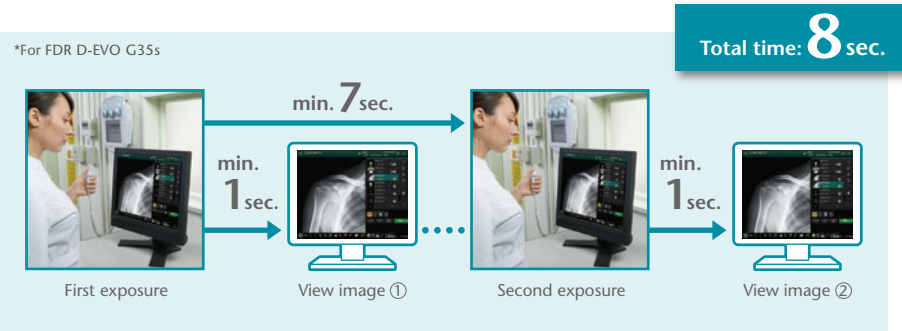
..... page 6

Small and lightweight, a perfect fit for orthopedic to neonatal exams



Quick Preview

Fujifilm developed a new technology "SmartSwitch" which allows automatic X-ray detection. With "SmartSwitch," FDR D-EVO no longer requires connection between the X-ray generator and DR power supply unit to automatically detect X-rays and start image creation.



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

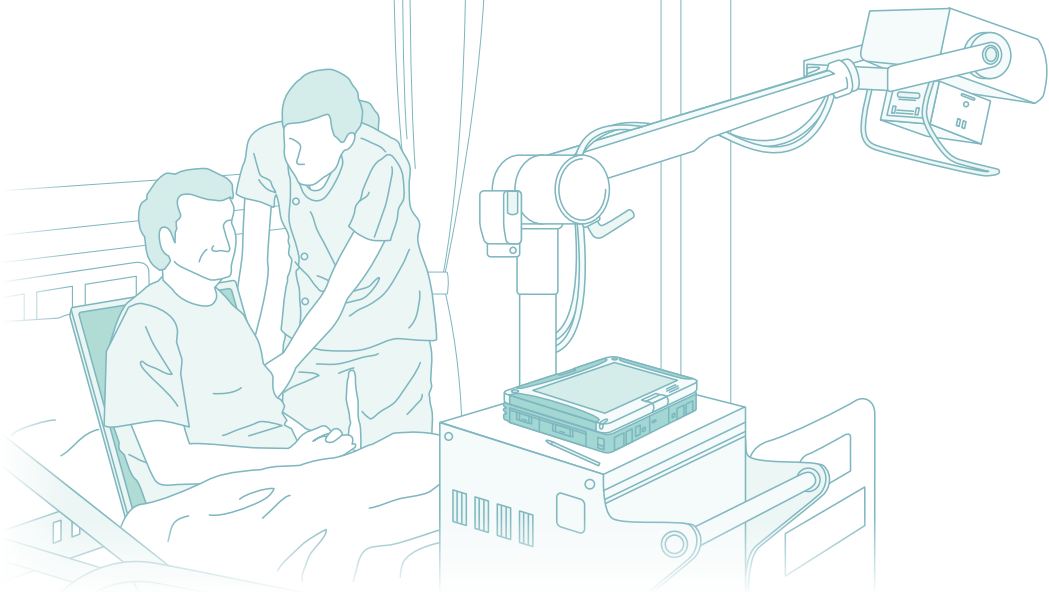
Fujifilm offers various X-ray mobile systems. Our first DR mobile X-ray system FDR Go, together with D-EVO series detectors, offers exceptional image quality. The FDR Go flex allows customers to transform existing analog mobile X-ray units into DR systems very easily.



FDR Go introduces mobile exams with Fujifilm's trademark image quality and dose performance.

- A reliable, high performing 32kW portable system
- Integrated Console Advance speed and ease of use
- FDR D-EVO detectors with Patented ISS
- Dynamic Visualization Image Optimization

At the bedside, in the OR, ED, ICU, NICU or anywhere in between, FDR Go is sure to bring smiles every step of the way.



The FDR Go flex transforms a wide range of X-ray units into wireless DR systems. All components of FDR Go flex are extremely compact and can be transported quickly and easily.



•Lightweight and Compact

The lightweight, compact chassis size provides superb maneuverability even in tightest spaces.

•Easy and Safe Travel

The system's dual motor drive provides smoother, easy steering and quiet travel. Travel speed is programmable for preferred maneuverability, acceleration and steering control. Fail safe drive handle automatically stops system when handle is released. Touch sensing safety bumper stops movement and signals user when contact is sensed.



•“Inch-mover”

Controls on the collimator slowly move system forward or backward for precise bedside positioning without having to return to the drive handle.



•Comfortable Safe Storage

Storage area holds detector(s), grid(s) and spare batteries. Detector bin features a clever shock absorbing holder.



•Suitable for various situations

At the time of FDR Go's introduction, it is possible to select cassettes that suit the purpose. Carrying multiple cassettes, it allows various types to be used during a round. The combination with C24i enables examinations of babies in incubators.



•Customized to your needs

The compact, wireless FDR Go flex can be laid out exactly to your specific requirements. The Utility Box is designed to fit into the cassette box of various mobile analog X-ray units.



•Stress-free operation

Preview images are displayed only two seconds after an exposure is made meaning images can be checked quickly thus improving efficiency.



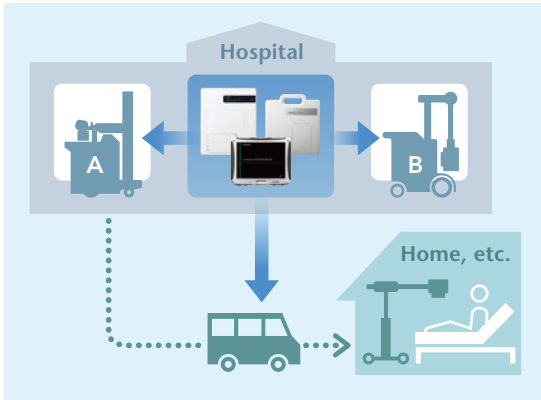
•Suitable for various situations

At the time of FDR Go flex's introduction, it is possible to select cassettes that suit the purpose.



•Excellent portability

The FDR Go flex can be used with a diverse array of units in hospitals, clinics or other medical institutions, with no modification of the mobile analog X-ray units required. As the FDR Go flex can also be carried outside the hospital, it facilitates a variety of medical needs including patient home care.



FCR has remained the leader in the field for more than 30 years. FCR is a premium digital X-ray solution, offering the broadest product line to suit the requirements of nearly every imaging application. FCR is the best possible solution for transition to digital at both large and small facilities.



FCR PRIMA T2

Tabletop size

47
IPs/hr.



FCR PRIMA II

Compact footprint

35
IPs/hr.



FCR PRIMA

Compact footprint

17
IPs/hr.

Table-top type FCR image reader for clinics, boasting the fastest in its class processing speed.

Compact and lightweight FCR image reader for clinics, with twice the processing speed of PRIMA, offering smoother workflow from exposure to image reading.

Standard-type compact and lightweight FCR image reader for clinics.



FCR CAPSULA XL II

Compact footprint

62
IPs/hr.

Mammo

Compact FCR image reader for hospitals which is suitable for mammography and other purposes, offering high throughput.



FCR CAPSULA X

Compact footprint

43
IPs/hr.

Compact but high-specification FCR image reader for hospitals, having a small footprint yet offering high throughput.



FCR PROTECT CS Plus

120
IPs/hr.

Mammo

Dual-Side Reading

The highest grade model in the FCR series. Superior image quality with 20 pixel/mm sampling pitch mammography and pediatric imaging with four-cassette stacker.



FCR PROTECT ONE Plus

67
IPs/hr.

Mammo

Dual-Side Reading

High-resolution one-stacker FCR with 20 pixel/mm sampling pitch for digital mammography and pediatric imaging.



FCR XG5000 Plus

120
IPs/hr.

A highly-efficient general-purpose FCR reader that offers superior quality images and comfortable workflow for medical staff.

Imaging Plate and Cassette

IP ST-VI Standard type for general purpose by Single-side reading.  • 14" x 17" (35.4 x 43.2 cm) • 14" x 14" (35.4 x 35.4 cm) • 10" x 12" (25.7 x 30.5 cm) • 8" x 10" (20.3 x 25.4 cm) • 24 x 30 cm • 18 x 24 cm • 15 x 30 cm	IP HR-VI High resolution type for mammo-graphy by Single-side reading.  • 24 x 30 cm • 18 x 24 cm	IP Cassette Type CC FCR standard cassette for IP ST-VI  • 14" x 17" (35.4 x 43.2 cm) • 14" x 14" (35.4 x 35.4 cm) • 10" x 12" (25.7 x 30.5 cm) • 8" x 10" (20.3 x 25.4 cm) • 24 x 30 cm • 18 x 24 cm • 15 x 30 cm	IP Cassette Type CH FCR special cassette for IP HR-VI  • 24 x 30 cm • 18 x 24 cm	IP Cassette Type LC 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 • 24.0 x 57.0 cm
IP ST-BD Standard type for general purpose by Dual-side reading.  • 24 x 30 cm • 18 x 24 cm	IP HR-BD High resolution type for mammo-graphy by Dual-side reading.  • 24 x 30 cm • 18 x 24 cm	IP Cassette Type DS FCR standard cassette for IP ST-BD  • 24 x 30 cm • 18 x 24 cm	IP Cassette Type DM FCR special cassette for IP HR-BD  • 24 x 30 cm • 18 x 24 cm	IP Cassette Type PC FCR special cassette for Linac/ Oncology  • 14" x 17" (35.4 x 43.2 cm) • 14" x 14" (35.4 x 35.4 cm)

Fujifilm has always provided a variety of innovations – the world's first U.S. Food and Drug Administration (FDA) – approved CR mammography system, DR mammography systems and AMULET Innovality with proprietary technologies. Our digital mammography will keep evolving further.

AMULET Innovality



AMULET Innovality — the result of Fujifilm's ongoing "innovation" and commitment to providing top "quality" mammography services. The Innovality utilizes Fujifilm's unique a-Se direct conversion flat panel detector (FPD)* to produce clear images with a low X-ray dose. This system makes use of intelligent AEC (i-AEC) combined with a new image analysis technology to automatically optimize the X-ray dosage for each breast type. AMULET Innovality is a highly advanced mammography system which offers an extremely fast image interval of just 15 seconds.

*Using a HCP (Hexagonal Close Pattern) TFT array.



The model suitable for both routine and stereotactic biopsy examinations.

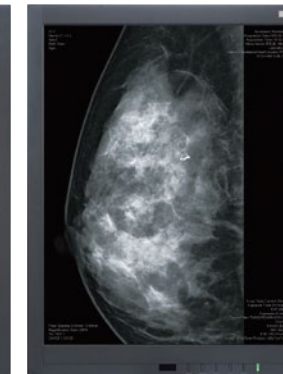


Standard model pursuing greater usability and comfort routine mammography.

Specially designed AWS (Acquisition Workstation)



AWS



High definition second monitor

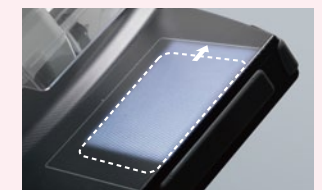
- Integrated X-ray controller allows setting and confirmation of exposure conditions on a single screen.
- Examination screen can be split and switched between 1, 2, or 4 image displays.
- Individual images can be immediately output to a PACS, viewer or printer during an examination.
- Density and contrast can be easily adjusted while viewing images.
- Alignment of left and right images can be adjusted both automatically and manually.

High definition second monitor (3M/5M: Optional)

- A second, high resolution monitor can be added to the AWS making it possible to display previous images recalled from a PACS to ensure the mammographer has access to previous images at all times.
- For Tomosynthesis, reconstructed images can be displayed and subjected to image QC.

Automatic positioning of radiation field

The radiation field automatically shifts to the ideal place for patient positioning depending on the compression paddle used. For example, with the 18×30 cm compression plate using an 18×24 cm radiation field, the radiation field remains in the center for the CC position, shifting to the upper portion of the detector when the gantry is rotated to a MLO or ML position. It is possible to change the radiation field size after positioning the patient.

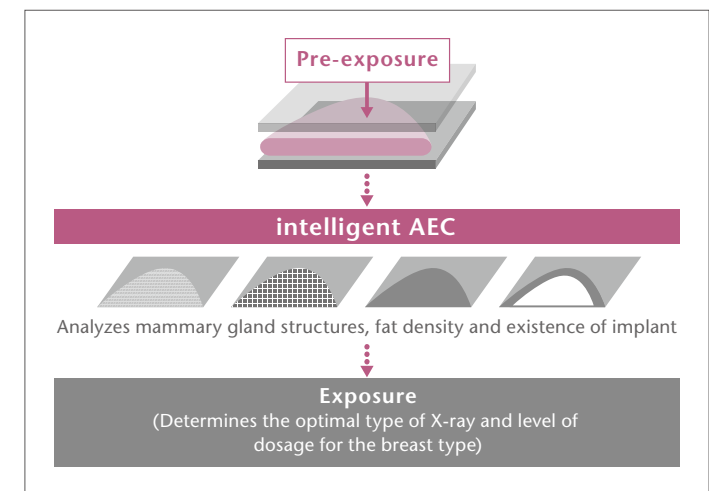


I-AEC

Intelligent AEC

*AMULET Innovality only

Intelligent AEC has advantages in defining the optimal dose for an examination compared to conventional AEC systems where the sensor position is fixed. Through the analysis of information obtained from low-dose preshot images, Intelligent AEC makes it possible to consider the mammary gland density (breast type) when defining the x-ray energy and level of dose required. Able to be used even in the presence of implants; intelligent AEC enables more accurate calculation of exposure parameters than is possible with conventional AEC systems. By allowing the use of automatic exposure for the implanted breast, Intelligent AEC can further enhance examination workflow.

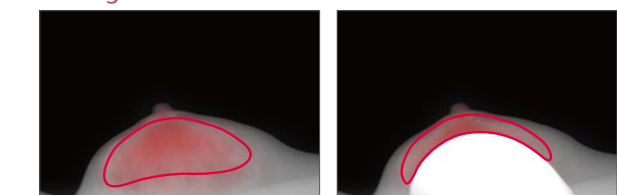


Conventional AEC



Requires manual adjustment of the settings based on the assumed location of mammary gland

intelligent AEC



Automatically selects the region for exposure in the pre-shot image

Biopsy

Stereotactic Biopsy Unit

The stereotactic biopsy unit allows accurate and reliable biopsy procedures to be performed using high resolution images. By attaching the optional lateral adapter the needle can be inserted not only vertically but also parallel to the exposure table.



CAD

Fujifilm CAD (Computer-Aided Detection)

Fujifilm Digital Mammography CAD is a valuable detection support system. Using proprietary algorithms, this CAD system helps detect areas on the breast image that may indicate cancer with the readily distinguishable CAD marks.



QC Program

Mammography QC Program

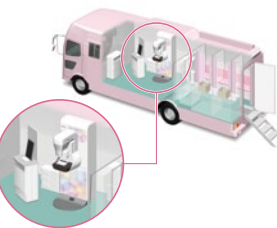
Fujifilm's Mammography QC Program is a dedicated quality control program that can be used on all Fujifilm digital mammography systems. This program monitors system performance to ensure stable image quality is maintained for both screening and diagnosis.



Mobile

Mobile option

FUJIFILM digital mammography system, AMULET s, is available for mobile use to provide the same high quality mammograms at any place.



AMULET Harmony

AMULET Harmony

AMULET Harmony incorporates a range of mammography solutions specifically designed to maintain a harmonious examination environment and foster an atmosphere of trust between mammographers and their patients.

Fit Sweet Paddle



This compression paddle fits to the shape of the breast, allowing pressure to be evenly applied while holding the breast securely and ensuring the breast tissue is adequately separated.

Decorative labels provide and adaptable room environment



Five different stand labels are available to add a gentle ambience. Each site can choose a stand appearance that best suits the examination environment, thus relieving patient stress and anxiety.

Image Reader for Mammography

*Please refer to page 14 and 15.



FCR CAPSULA XLII

FCR PROTECT CS Plus

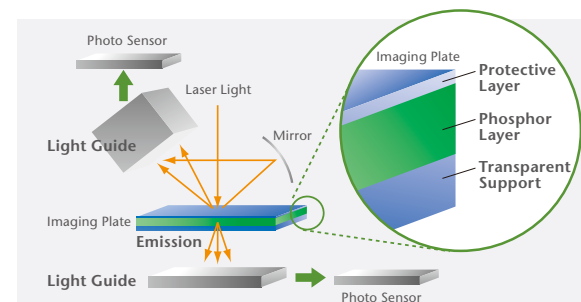
FCR PROTECT ONE Plus



Dual-Side Reading

Dual-Side Reading Technology

Dual-Side IP (Imaging Plate) Reading technology allows the use of a thicker phosphor layer on the transparent base, thereby increasing DQE (Detective Quantum Efficiency) by collecting the emissions from both sides of the IP with optimal, spatial frequency-dependent factors.



Mammography Solutions

– Mammography Workstation –

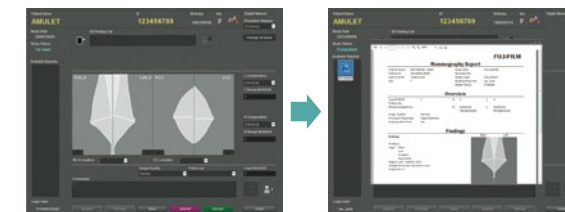
AMULET Bellus

In 2013, the mammography workstation AMULET Bellus was released, following AMULET Innovality with Fujifilm's proprietary technologies incorporated. Fujifilm provides a total solution for mammography diagnosis. The workstation quickly displays mammographic studies even with a large data size. "Intelligent Temporal Comparison" a rapid display switching function, aids in efficient diagnosis.



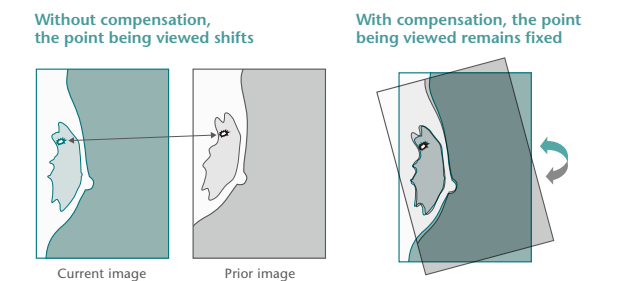
• One-click creation of "Normal" report

For patients where no abnormality is detected a report can be generated with a single click, dramatically reducing reporting time in a screening environment. Users can choose from customizable predefined comments when describing structures of interest. This ensures maximum speed, accuracy and reproducibility in the reports provided to referrers and clients alike.

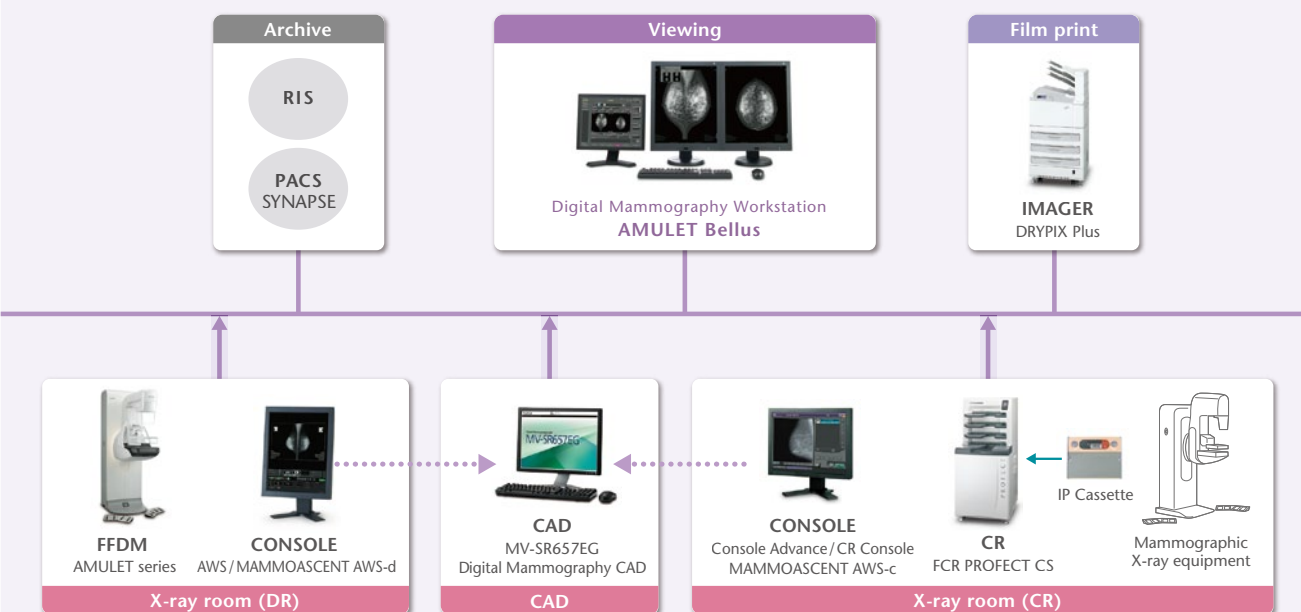


• Intelligent Temporal Comparison (ITC)

An automatic toggle function is available to allow for instantaneous switching between the current and prior images of any given patient. Together with Fujifilm's image processing technology which compensates differences of positioning, this allows images to be directly compared even within a detailed region of interest.



AMULET Bellus System Configuration



*The connection in the above figure is for an illustrative purpose. Contact your local sales representatives for the connections of devices.

Dry Imagers

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 workload requirement.



DRYPIX Lite
Model: DRYPIX 2000



DRYPIX Lite is a compact and efficient tabletop dry imager. It supports multiple film sizes and is expandable to 2 magazines. DRYPIX Lite is an optimal choice for small clinical settings or as a part of a dispersed system in large hospitals.



DRYPIX Smart
Model: DRYPIX 6000



DRYPIX Smart delivers superior quality images to satisfy various needs of multi-department hospitals. Despite its compact size, throughput is extremely high (80 sheets/h with 14"x17" film) with high resolution of 508 dpi.



DRYPIX Plus
Model: DRYPIX 4000



The remarkably efficient DRYPIX Plus is designed as a centralized imager with a maximum of 3 film sizes. Features such as unrivaled image quality, networkability, and secured backup make DRYPIX Plus a welcome addition to any hospital department.

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.

DI-HT for DRYPIX Lite



DI-HL for DRYPIX Smart/DRYPIX Plus



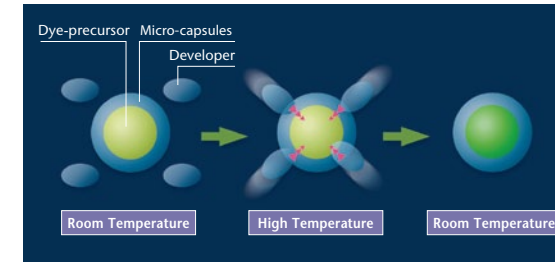
DI-ML Premium Film for Mammography



• DURATHERM™ Imaging System

DRYPIX Lite

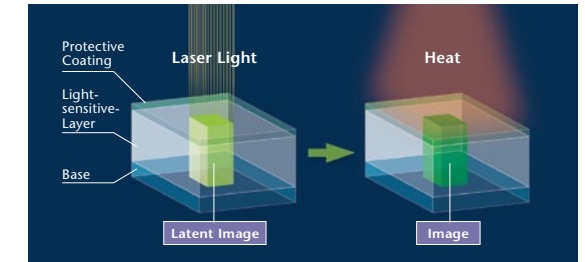
Fujifilm's innovative DURATHERM™ technology ensures stable, artifact-free printing performance and extended thermal-head life. Using Fujifilm's patented micro-isolating thermal film, DRYPIX Lite produces the unexcelled image quality you have come to expect from DRYPIX imagers.



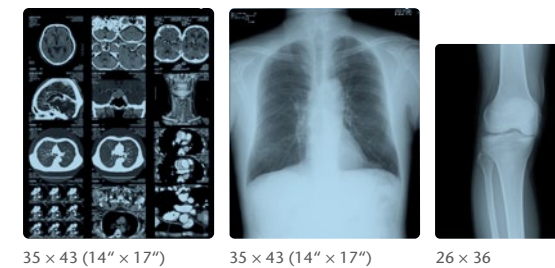
• Dry Laser Imaging System

DRYPIX Smart / DRYPIX Plus

DRYPIX Smart/Plus'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.

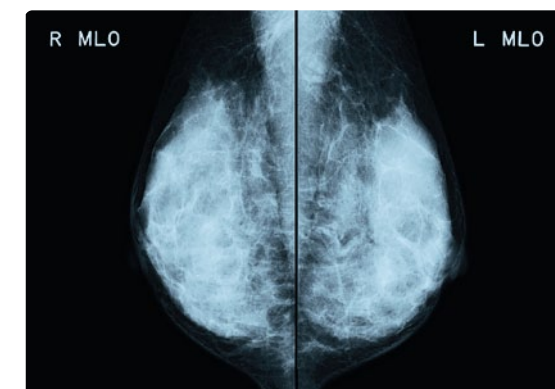


• High quality images for more versatility



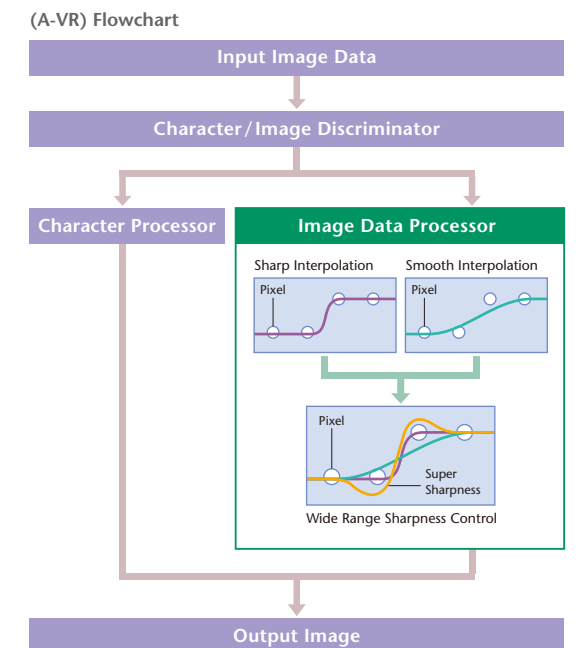
• High resolution and high maximum density

Offering high resolution of 508 dpi and a maximum density of 4.0*, the DRYPIX Smart is ideal for mammography which requires high definition images.
*When the DI-ML film is used.



• Image processing engine which provides high-quality images

Advanced Variable Response (A-VR) Spline Interpolation Fujifilm's A-VR automatically detects and distinguishes between image data and alphanumeric characters, ensuring clear, sharp alphanumeric characters even when noisy images require smooth interpolation of image data. Benefits include easier, faster and more accurate diagnosis.



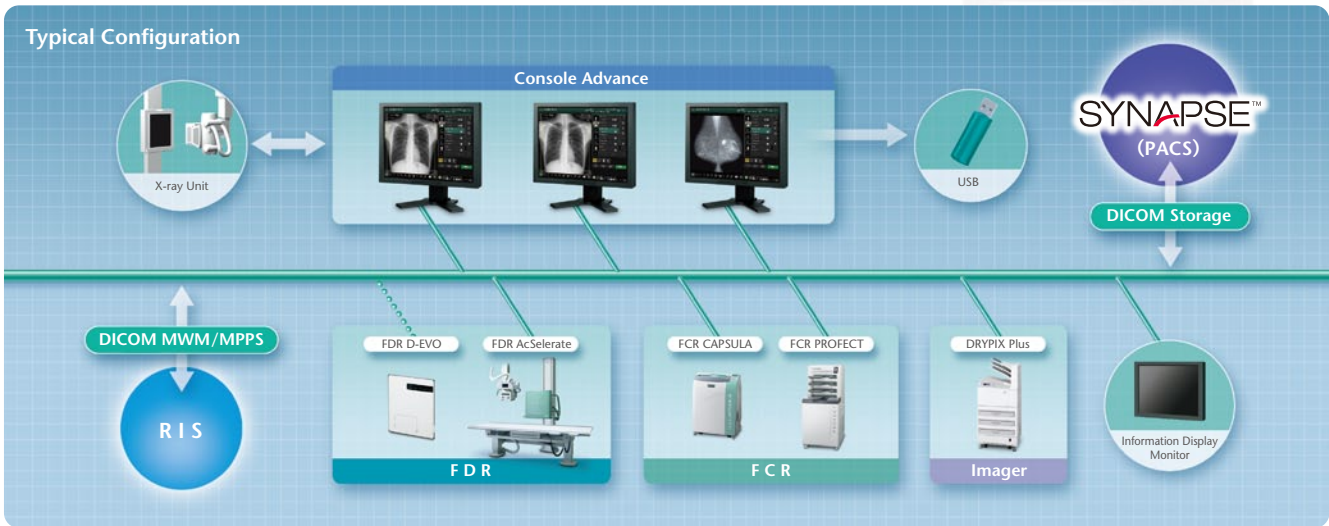
ECO-DRY SYSTEM

DRYPIX's ECO-DRY system is environmentally friendly, films to processing. DRYPIX medical films employ unique aqueous solvents that are free from unpleasant odors and create neutral colored image 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 obviates the need for harmful organic solvents in the thermal development of light-sensitive materials.

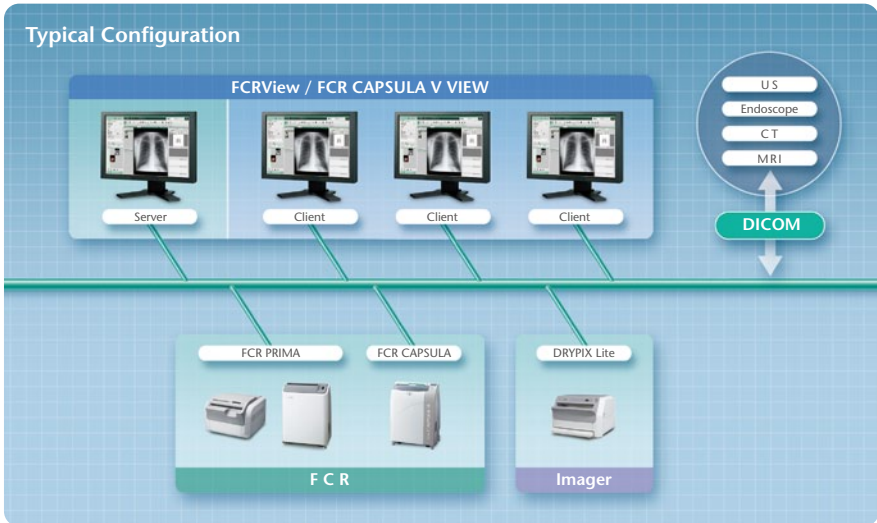
The heart of the FDR / FCR systems assuring smooth workflow to a variety of facilities ranging from hospitals to clinics

Console Advance / CR Console

The Console Advance and the CR Console perform digital imaging processes – patient identification, image preview, processing, printing and storage, with DICOM interfacing. This high resolution console also uses a touch-panel screen with intuitive user guidance menus which are easy to use. And then being a PC-based image processing system, they connect with various and multiple FDRs and FCRs over the network with DICOM interface for easy connectivity with other network devices.



FCRView / FCR CAPSULA V VIEW
FCR PRIMA Console / FCR PRIMA V Console



The FCRView and FCR PRIMA Console are multi-functional workstations for clinics that provide console, viewer, and archive functionality all combined. FCRView, which is more highly functional than FCR PRIMA Console, can be connected to all the models of FCR CAPSULA and FCR PRIMA series. The FCR PRIMA Console can only be connected to the FCR PRIMA series. The FCR CAPSULA V VIEW and the FCR PRIMA V Console which are functional equivalents of the FCRView and the FCR PRIMA Console are solely for use at veterinary facilities.

With the second-most widely used PACS system in the world, SYNAPSE has become synonymous with state-of-the-art PACS. Today, Fujifilm's SYNAPSE portfolio of solutions provides the essential components for medical imaging practice, including:

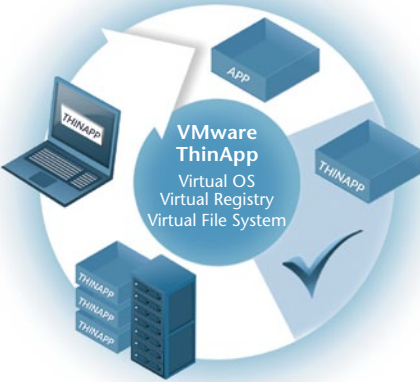
- SYNAPSE PACS • SYNAPSE RIS • SYNAPSE VNA • SYNAPSE 3D
- SYNAPSE Mobility • SYNAPSE Cardiovascular

All SYNAPSE products offer seamless integration for single sign-on access to a range of radiography, cardiology and business management tools. Consistent interfaces across the SYNAPSE line of products smooth the transition from one set of tools to another, creating a familiar, efficient workflow for users. As part of Fujifilm's commitment to advancing the capabilities of clinical professionals and facilities, current Synapse clients benefit from continual system upgrades.

SYNAPSE Solutions

• Thin Client Technology

All Synapse solutions use full-featured thin-client technology. Thin-client computing makes use of a server to take on most of the data intensive and computational workload, while the terminal or workstation provides a smaller proportion, for example, the user interface. In the case of Synapse, this has several benefits: maintaining security protocols can be greatly simplified, since most of the security functions run only on the central server. Terminals or workstations don't need to be high-performance computers since their computing functions are performed at the server level. Users customized settings are saved at the server level and are available to the user at any workstation. Thin-client technology makes it more feasible for clinicians to work remotely (as with teleradiology), and makes it possible to build security into the architecture of the software. Finally thin client streamlines software updates, as most of the computing is taking place on a single server.



• Managing your growing archive

Healthcare departments create more and more patient data each year. Conventional data management systems silo data by department: each department operates its own individual storage and archive system, often creating data incompatible with the systems, collaboration between departments becomes difficult. Data migration to more efficient servers, or implementing new archiving processes becomes costly and unwieldy. Compartmentalization of archived data further impedes care center growth as managing multiple systems and data types drains IT resources. Fujifilm's single-enterprise vendor-neutral archive (VNA) answers these challenges with a cost-effective solution that unifies departments and data types, making it easy for multiple departments to store and access data.



• Discover the power of SYNAPSE 3D



For Radiologist

- Powerful analysis tools
- Fully integrated with SYNAPSE PACS
- Available from any SYNAPSE Workstation
- Familiar, intuitive user interface

For Cardiologist

- Integrated with SYNAPSE PACS and CV
- Comprehensive and flexible display options
- Powerful structured reports
- Advanced cardiology package available

For IT

- True thin client Technology
- One-vendor solution
- Proprietary, secure communication protocol
- Scalable and flexible

Visit the Synapse 3D website >> <http://3dimaging.fujimed.com/>

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

General Film



Super HR-T/HR-U

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



Super RX-N

Super RX-N is a wide latitude film with medium contrast for use with blue-emitting intensifying screens. This universal type film with a wide tonal range is used for all types of diagnostic applications.

RELATIVE SPEED

Film \ Screen		HR Fine	HR Medium	HR Medium Plus	HR Regular	HR Fast	HR Ultra Fast
Super HR-T	Relative Speed	120	200	300	400	600	800
Super HR-U	Usage	Extremities Skull	Extremities, Skull, G.I. Series, Chest	G.I. Series, Abdomen, Skull	Chest, Abdomen, Pelvis, G.I. Series	Angio, Pelvis	Angio, Pelvis

Mammography Film/Screen Systems



AD-M Film

The Fujifilm AD Mammography 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, D-max and sharpness with minimal noise.



UM-MA HC Film

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

RELATIVE SPEED

Film \ Screen		AD Mammo Fine	AD Mammo Medium	UM Mammo Fine	UM Mammo Medium
AD-M		100	140	—	—
UM-MA HC		—	—	100	140

Specifications

FDR Solutions

	Ceiling Tube support	Vertical travel range	1750 mm (room height 2.9 to 3.1m)
		Automatic positioning	5 axes
	X-Ray	X-ray generator output	65 kW (Standard) / 80 kW (Optional)
		X-ray tube	400 kHU with 0.6/1.2 mm focal spot (Standard) 600 kHU with 0.6/1.0 mm focal spot (Optional)
	Collimator	Copper filter	0.1 mm, 0.2 mm, 0.3 mm
		Square collimation	Manual / Motorized
	Table	Tabletop size	850 × 2,400 mm
		Travel range	longitudinal: ±600 mm / transverse: ±150 mm
		Table height	550 to 930 mm
	Stand	Max. patient weight	250 kg
		Travel range (central beam - floor)	390 to 1,900 mm
More Details (Ref. No.)	Tilting angle	-20 to 90 degree	
	XB-968E		

	Ceiling Tube support	Vertical travel range	1450 mm (room height 2.5 to 2.85 m) 1700 mm (room height 2.85 to 3.05 m)
	X-Ray	X-ray generator output	50 kw (Standard)/ 65 kW or 80 kW (Optional)
		X-ray tube	300kHU with 0.6/1.2 mm focal spot (Standard) 400kHU with 0.6/1.2 mm focal spot or 600kHU with 0.6/1.0 mm focal spot (Optional)
	Table	Tabletop size	853 × 2,400 mm
		Travel range	longitudinal: ±600 mm / transverse: ±150 mm
		Table height	550 to 930 mm
		Max. patient weight	250 kg
	Stand	Travel range (central beam - floor)	315 to 1,785 mm (Non-Tilt option) 315 to 1,715 mm (Tilt option)
		Tilting angle	-20 to 90 degree (Factory option)
More Details (Ref. No.)	XB-979ER		

	FDR D-EVO G35i/s	FDR D-EVO G43i/s	FDR D-EVO plus C35i/s	FDR D-EVO plus C43i/s	FDR D-EVO plus C24i/s
Scintillator	GOS (Gadolinium oxysulfide)	GOS (Gadolinium oxysulfide)	CsI (Cesium iodide)	CsI (Cesium iodide)	CsI (Cesium iodide)
Detector external size	460×384×15 mm (Approx.) [18"×15"×0.6"]	460×460×15 mm (Approx.) [18"×18"×0.6"]	460×384×15 mm (Approx.) [18"×15"×0.6"]	460×460×15 mm (Approx.) [18"×18"×0.6"]	328×268×15 mm (Approx.) [13"×11"×0.6"]
Pixel pitch	0.15 mm	0.15 mm	0.15 mm	0.15 mm	0.15 mm
Pixels	2880×2304 pixels	2816×2816 pixels	2880×2304 pixels	2816×2816 pixels	1920×1536 pixels
Wireless standard	IEEE 802.11n, 5.2 GHz (G35i)	IEEE 802.11n, 5.2 GHz (G43i)	IEEE 802.11n, 5.2 GHz (C35i)	IEEE 802.11n, 5.2 GHz (C43i)	IEEE 802.11n, 5.2 GHz (C24i)
Image preview	Less than 2 sec.	Less than 2 sec.	Less than 2 sec.	Less than 2 sec.	Less than 2 sec.
Cycle time	Less than 9 sec. (wired) Less than 10 sec. (wireless)	Less than 9 sec. (wired) Less than 11 sec. (wireless)	Less than 9 sec. (wired) Less than 11 sec. (wireless)	Less than 9 sec. (wired) Less than 12 sec. (wireless)	Less than 8 sec. (wired/wireless)
Battery recharging time	Approx. 3 hr. (G35i)	Approx. 3 hr. (G43i)	Approx. 3 hr. (C35i)	Approx. 3 hr. (C43i)	Approx. 3 hr. (C24i)
Battery performance	Standby: Approx. 3 hr. 30 min. (G35i) Number of exposures*: Approx. 750 exposures (at 12 sec. cycles) (G35i)	Standby: Approx. 3 hr. 30 min. (G43i) Number of exposures*: Approx. 500 exposures (at 12 sec. cycles) (G43i)	Standby: Approx. 3 hr. 30 min. (C35i) Number of exposures*: Approx. 500 exposures (at 12 sec. cycles) (C35i)	Standby: Approx. 3 hr. (C43i) Number of exposures*: Approx. 500 exposures (at 12 sec. cycles) (C43i)	Standby: Approx. 5 hr. 30 min. (C24i) Number of exposures*: Approx. 700 exposures (at 12 sec. cycles) (C24i)
More Details (Ref. No.)	XB-1000E	XB-990E/ XB-991E	XB-993E/ XB-994E	XB-1015E/ XB-1016E	XB-1007E

Mobile Solutions

	Power supply	100/110/120/200/220/230/240V AC, Single phase: 50-60Hz, Power consumption 1.0kVA
		Max. rating 32 kW
	X-ray output	Tube voltage 40 to 133 kV in 1 kV steps
		Tube Current Max. 400mA
	Dimensions (W×D×H)	Type S: 580×1,220×1,780 mm (22.8"×48.0"×70.1") Type T: 580×1,220×1,930 mm (22.8"×48.0"×76.0")
	Weight	460 kg (1,014 lbs)
More Details (Ref. No.)		XB-1011E

	Standard components	Digital radiography	DR-ID 700PU
		(1) Utility Box	DR-ID 700AB
		(2) Flat panel sensor	
		FDR D-EVO G35i	DR-ID 601SE [GOS / wireless / 35×43 cm (14"×17")]
		FDR D-EVO G43i	DR-ID 602SE [GOS / wireless / 43×43 cm (17"×17")]
		FDR D-EVO plus C35i	DR-ID 611SE [Csl / wireless / 35×43 cm (14"×17")]
		FDR D-EVO plus C43i	DR-ID 612SE [Csl / wireless / 43×43 cm (17"×17")]
		FDR D-EVO plus C24i	DR-ID 613SE [Csl / wireless / 24×30 cm]
		CONSOLE ADVANCE (Mobile)	Ver. 6.1 or later
	Image preview	Console model is HP Revolve 810	less than 2 sec.
	Cycle time	Console model is HP Revolve 810	less than 13 sec.
	More Details (Ref. No.)	XB-998E	

Specifications

FCR Solutions				
		FCR PRIMA T2	FCR PRIMA II	FCR PRIMA
				
Standard Components		FCR PRIMA T2 Image Reader (Model: CR-IR 392)	FCR PRIMA II Image Reader (Model: CR-IR 391RU)	FCR PRIMA Image Reader (Model: CR-IR 391RU)
Supplies	Imaging Plate ST-VI	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm
	IP Cassette Type CC	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm
	Type LC	35.4×124.5 cm, 35.4×101.7 cm, 35.4×83.0 cm, 25.2×58.0 cm, 24.0×57.0 cm	—	—
Processing Capacity with ST-VI 14"×17" (35×43 cm)		Approx. 47 IPs/hr.	Approx. 35 IPs/hr.	Approx. 17 IPs/hr.
Dimensions (W×D×H)		560×540×392 mm (22"×21"×15")	600×400×780 mm (24"×16"×31")	600×400×780 mm (24"×16"×31")
Power Supply Conditions		Single phase 50-60 Hz AC 120-240V ±10% 1.9 A (max)	Single phase 50-60 Hz AC 120-240V ±10% 5 A (max)	Single phase 50-60 Hz AC 120-240V ±10% 5 A (max)
More Details (Ref. No.)		XB-992E	XB-995E	XB-964E

		FCR CAPSULA XLII	FCR CAPSULA X
			
Standard Components		FCR CAPSULA XLII Image Reader (Model: CR-IR 359)	FCR CAPSULA X Image Reader (Model: CR-IR 357)
Supplies	Imaging Plate ST-VI	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm
	HR-VI	24×30 cm, 18×24 cm	24×30 cm, 18×24 cm
	IP Cassette Type CC	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm
	Type CH	24×30 cm, 18×24 cm (For 50-micron reading with HR-V or HR-VI)	—
	Type LC	35.4×124.5 cm, 35.4×101.7 cm, 35.4×83.0 cm, 25.2×58.0 cm, 24.0×57.0 cm	—
Processing Capacity with ST-VI 14"×17" (35×43 cm)		Approx. 62 IPs/hr.	Approx. 43 IPs/hr.
Dimensions (W×D×H)		590×380×810 mm (23"×15"×32")	590×380×810 mm (23"×15"×32")
Power Supply Conditions		Single phase 50-60 Hz AC 120-240V ±10% 5 A (max)	Single phase 50-60 Hz AC 120-240V ±10% 5 A (max)
More Details (Ref. No.)		XB-870ER3	XB-567ER

		FCR PROTECT CS Plus	FCR PROTECT ONE Plus	FCR XG5000 Plus
				
Standard Components		FCR PROTECT CS Plus Image Reader (Model: CR-IR 363)	FCR PROTECT ONE Plus Image Reader (Model: CR-IR 368)	FCR XG5000 Plus Image Reader (Model: CR-IR 362)
Supplies	Imaging Plate ST-VI	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm, 15×30 cm
	ST-BD	24×30 cm, 18×24 cm	24×30 cm, 18×24 cm	—
	HR-BD	24×30 cm, 18×24 cm	24×30 cm, 18×24 cm	—
	IP Cassette Type CC	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm	14"×17", 14"×14", 10"×12", 8"×10", 24×30 cm, 18×24 cm
	Type DS	24×30 cm, 18×24 cm	24×30 cm, 18×24 cm	—
	Type DM	24×30 cm, 18×24 cm	24×30 cm, 18×24 cm	—
	Type LC	35.4×124.5 cm, 35.4×101.7 cm, 35.4×83.0 cm, 25.2×58.0 cm, 24.0×57.0 cm	35.4×124.5 cm, 35.4×101.7 cm, 35.4×83.0 cm, 25.2×58.0 cm, 24.0×57.0 cm	35.4×124.5 cm, 35.4×101.7 cm, 35.4×83.0 cm, 25.2×58.0 cm, 24.0×57.0 cm
	Processing Capacity with ST-VI 14"×17" (35×43 cm)	Approx. 120 IPs/hr.	Approx. 67 IPs/hr.	Approx. 120 IPs/hr.
Dimensions (W×D×H)		655×740×1480 mm (26"×29"×58")	655×740×1330 mm (26"×29"×52")	655×740×1480 mm (26"×29"×58")
Power Supply Conditions		Single phase 50-60 Hz AC 120-240V ±10% 7 A (max)	Single phase 50-60 Hz AC 100-240V ±10% 7 A (max)	Single phase 50-60 Hz AC 120-240V ±10% 7 A (max)
More Details (Ref. No.)		XB-1006E	XB-1006E	XB-1006E

Mammography Solutions

		AMULET Innovality	AMULET f	AMULET s
				
Time interval required between exposures		Approx. 15 sec.	Approx. 15 sec.	Approx. 15 sec.
Image output size		50 microns	50 microns	50 microns
X-ray tube	Target	W	W	W
	Filter	Rh / Al	Rh	Mo / Rh
More Details (Ref. No.)		XB-1013E	XB-987E	XB-988E

Dry Imagers

		DRYPIX Lite	DRYPIX Smart	DRYPIX Plus
				
Standard Components		Fuji Medical Dry Imager DRYPIX Lite (Model: DRYPIX 2000)	Fuji MEDICAL Dry Laser Imager DRYPIX Smart (Model: DRYPIX 6000)	Fuji MEDICAL Dry Laser Imager DRYPIX Plus (Model: DRYPIX 4000)
Recording method		Thermal head transfers heat while in contact with thermal film	Laser exposure thermal development system	Laser exposure thermal development system
Applicable film		Fuji Medical Dry Film DI-HT 35×43 cm (14"×17"), 26×36 cm (10"×14"), 25×30 cm (10"×12"), 20×25 cm (8"×10")	Fuji Medical Dry Imaging Film DI-HL (blue base) 35×43 cm (14"×17"), 35×35 cm (14"×14"), 26×36 cm (10"×14"), 25×30 cm (10"×12"), 20×25 cm (8"×10") DI-ML (blue base) 26×36 cm (10"×14"), 25×30 cm (10"×12"), 20×25 cm (8"×10")	Fuji Medical Dry Imaging Film DI-HL (blue base) 35×43 cm (14"×17"), 35×35 cm (14"×14"), 26×36 cm (10"×14"), 25×30 cm (10"×12"), 20×25 cm (8"×10") DI-HL (clear base) 35×43 cm (14"×17"), 35×35 cm (14"×14"), 26×36 cm (10"×14"), 25×30 cm (10"×12"), 20×25 cm (8"×10") DI-ML (blue base) 26×36 cm (10"×14"), 25×30 cm (10"×12"), 20×25 cm (8"×10")
Film magazines / trays		Up to 2 magazines	2 trays	Up to 3 trays
Processing capacity		Approx. 50 sheets/hr. 35×43 cm (14"×17"), Approx. 75 sheets/hr. 26×36 cm (10"×14"), Approx. 65 sheets/hr. 25×30 cm (10"×12"), Approx. 90 sheets/hr. 20×25 cm (8"×10")	Approx. 80 sheets/hr. 35×43 cm (14"×17")	Approx. 110 sheets/hr. 35×43 cm (14"×17"), Approx. 160 sheets/hr. 26×36 cm (10"×14"), Approx. 160 sheets/hr. 25×30 cm (10"×12"), Approx. 160 sheets/hr. 20×25 cm (8"×10")
Pixel size		84.7 μm (300 dpi)	50 μm (508 dpi) / 100 μm (254 dpi)	50 μm / 100 μm is selectable for all sizes
Image memory		1 GB	1 GB	1 GB
Dimensions (W×D×H)		530×590×365 mm (21×23×14") (with Large magazine) 530×470×365 mm (21×19×14") (with Small magazine) 180 mm higher with optional sheet-feeder unit	610×630×893 mm (24"×25"×35")	600×585×1,090 mm (24"×23"×43") (1 tray type without sorter) 600×585×1,390 mm (24"×23"×55") (1 tray type with sorter option)
Weight		32 kg (71 lbs.) 43 kg (95 lbs.) with optional sheet-feeder unit	104 kg (229 lbs.)	160 kg (353 lbs.)
Power supply		Single phase 50-60 Hz 100-240V ±10% 5 A (max)	AC100/110/120V (Rated current: 10.6/11.2/12A) AC200/220/230/240V (Rated current: 5.3/5.6/5.9/6A)	AC-100-120V±10%, 50/60 Hz 12A (Single phase) AC-200-240V±10%, 50/60 Hz 6A (Single phase)
More Details (Ref. No.)		XB-1002E	XB-1012E	XB-981E

FUJIFILM

<http://www.fujifilm.com/products/medical/index.html>

Changing the worldwide medical scene with a stream of innovative products.



FUJIFILM Medical Systems Product Profiles