FUJIFILM

Fujifilm Digital Mammography System

Digital breast imaging with superior quality and reliability.

Fujifilm's Digital Mammography System: Your digital mammography solution

Fujifilm's Digital Mammography System uses advanced technologies to enhance opportunities for early detection of breast cancer.
The convenient, easy-to-use system expedites workflow with automatic image routing and background image processing featured in the FCR PROFECT CS and PROFECT ONE reader. Touch-panel accessibility and intuitive software enable the CR Console to facilitate data confirmation and networking versatility.
Printing of high-quality actual-size images is fast and accurate with DRYPIX 7000 and DRYPIX 4000 dry imager.
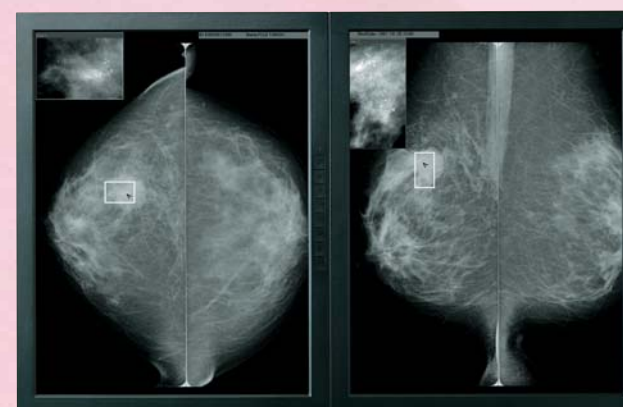And linking the FCR reader via CR Console to the CAD Mammography Workstation greatly expands image viewing capacity.
Fujifilm's Digital Mammography System benefits operator and patient alike with more sensitive detection and superior diagnostic capability.

IMAGE ACQUISITION

IMAGE DISPLAY AND PROCESSING

IMAGE OUTPUT

FCR PROFECT ONE

Compact design with 1-cassette stacker promising superb resolution for mammography, as well as pediatric and neonatal radiography. Delivering seamless and smooth workflow with superior operability.

FCR PROFECT CS

A next-generation FCR reader offering image quality optimized to satisfy the most demanding applications. Features like processing capacity sufficient to cover multiple mammography rooms and 4-cassette stacker increase workflow efficiency and enhance departmental productivity.

CR Console

A multi-function console that allows quality assurance activities, image processing, as well as all the complex procedures of digital X-ray imaging – patient ID, image preview, processing and printing, DICOM interface, etc. – at a single workstation.

P.E.M. Specifically developed for mammographic imaging, Pattern Enhancement Processing for Mammography software greatly facilitates identification of tumors while improving the conspicuity of micro-calcifications.

CAD (Computer-Aided Detection system) Mammography Workstation

Link the FCR reader via CR Console to Mammography Workstation MV-SR 657 for full viewing capability. After primary image QA at the CR Console, images are transferred to the viewing station, which automatically marks and magnifies any area that may be associated with breast cancer. User-friendly, software design and high-resolution display monitor in dual-portrait mode maximize all-round performance.
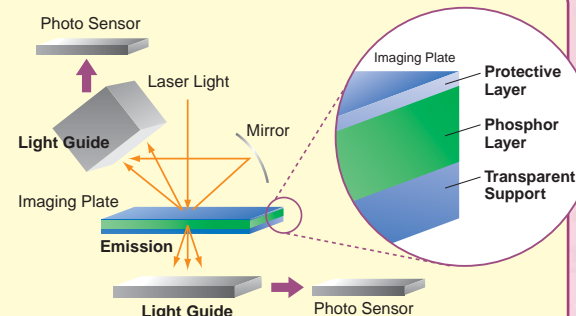
DRYPIX 4000

Ideal imager for medium-size hospitals, combining proven reliability and convenience with ability to print 50-micron resolution and 3.6 D-max, all in a compact body. Suitable for mobile imaging facilities.
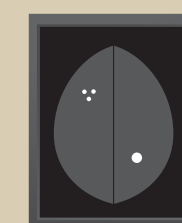
DRYPIX 7000

The flagship of the DRYPIX series, DRYPIX 7000's ability to print 50-micron resolution and automatic adjustment to 3.6 D-max produces image quality ideally suited for mammography printing.

Dual-Side Reading Technology

Dual-Side IP (Imaging Plate) Reading technology allows the use of a thicker phosphor layer on the IP and transparent base, thereby increasing DQE (Detective Quantum Efficiency) by collecting the emissions from both sides of the IP with optimal, spatial frequency-dependent factors.
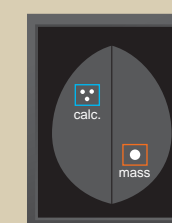
Photo Sensor
Laser Light
Light Guide
Mirror
Imaging Plate
Emission
Light Guide
Photo Sensor
Imaging Plate
Protective Layer
Phosphor Layer
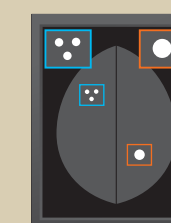Transparent Support

Reading Support Capabilities

Screen A Micro-calcification and/or mass candidates have been enhanced through special image processing.

Screen B Markers are placed on the regions for highlighting.

Screen C Regions marked are magnified for easier reference.

Fujifilm Digital Mammography System Specifications

	FUJIFILM FCR PROFECT ONE	FUJIFILM FCR PROFECT CS
Standard Components:	• FCR PROFECT ONE Image Reader (Model: CR-IR 368) • AC power cord • CR Console Plus (sold separately)	• FCR PROFECT CS Image Reader (Model: CR-IR 363) • AC power cord • CR Console Plus (sold separately)

Imaging Plate and Cassette:	Imaging Plate:
	• Type HR-BD for Dual-Side mammography imaging:
	  18 × 24 cm, 24 × 30 cm
	Cassette:
	• Type DM with barcode on cassette: 18 × 24 cm, 24 × 30 cm
		Imaging Plate:
		• Type HR-BD for Dual-Side mammography imaging:
		  18 × 24 cm, 24 × 30 cm
		Cassette:
		• Type DM with barcode on cassette: 18 × 24 cm, 24 × 30 cm

Processing Capacity:	Imaging Plate Cassette: • Per hour processing capacity in high-pixel density, two-image output format: HR-BD 18 × 24 cm (45 IP), HR-BD 24 × 30 cm (40 IP) • Time to print on DRYPIX 7000 (18 × 24 cm HR-BD): 140 sec. • Time to display on CR Console (18 × 24 cm HR-BD): 50 sec.	Imaging Plate Cassette: • Per hour processing capacity in high-pixel density, two-image output format: HR-BD 18 × 24 cm (80 IP), HR-BD 24 × 30 cm (65 IP) • Time to print on DRYPIX 7000 (18 × 24 cm HR-BD): 140 sec. • Time to display on CR Console (18 × 24 cm HR-BD): 50 sec.
Number of Stackers:	1	4
Reading Gray Scale:	12 bits	12 bits
Dimensions (W x D x H):	655 × 740 × 1330 mm (26" × 29" × 52")	655 × 740 × 1480 mm (26" × 29" × 58")
Weight:	240 kg (529 lbs.)	285 kg (628 lbs.)
Power Supply Conditions:	AC 120-240V ±10% (50-60Hz), Single phase 7A (max)	AC 120-240V ±10% (50-60Hz), Single phase 7A (max)

Computed Radiography
WITH RESPECT TO ELECTRIC SHOCK, FIRE AND MECHANICAL HAZARDS ONLY
IN ACCORDANCE WITH UL2601-I/CAN/CSA C22.2 NO.601.1
IEC 60601-I-1   53MK

C UL US   CE

	FUJIFILM Dry Laser Imager DRYPIX 4000	FUJIFILM Dry Laser Imager DRYPIX 7000
Applicable Film:	Fuji Medical Dry Imaging Film DI-HL (blue base) / DI-HLc (clear base) 35.6 × 43.2 cm (14" × 17"), 25.7 × 36.4 cm, 25.4 × 30.5 cm (10" × 12") or 20.3 × 25.4 cm (8" × 10")	Fuji Medical Dry Imaging Film DI-HL (blue base) / DI-HLc (clear base) 35.6 × 43.2 cm (14" × 17"), 25.7 × 36.4 cm, 25.4 × 30.5 cm (10" × 12") or 20.3 × 25.4 cm (8" × 10")
Film Trays:	Up to 2	Up to 3
Film Loading:	Daylight film loading	Daylight film loading
Processing Capacity (sheets per hour, standard or high resolution):	110 (14" × 17"), 160 (25.7 × 36.4 cm), 160 (10" × 12"), 160 (8" × 10")	180 (14" × 17"), 240 (25.7 × 36.4 cm), 230 (10" × 12"), 200 (8" × 10")
Gray Scale Resolution:	14 bits	14 bits
Pixel Size:	100/50 microns is selectable for all sizes.	100/50 microns is selectable for all sizes.
Input Channels:	DICOM network channel	DICOM network channel
Image Memory:	Standard 256MB (512MB optional)	Standard 256MB (512MB optional)
Density Adjustment:	Automatic density correction	Automatic density correction
Optional Sorter Bins:	4 bins	10 bins
Dimensions (W x D x H):	600 × 585 × 1040 mm (24" × 23" × 41")	735 × 680 × 1240 mm (29" × 27" × 49")
Weight:	130 kg (287 lbs.)	203 kg (448 lbs.)
Power Supply:	AC 200-240V (50-60Hz), Single phase 6A	AC 200-240V (50-60Hz), Single phase 12A

Medical Dry Laser Imager
WITH RESPECT TO ELECTRIC SHOCK, FIRE AND MECHANICAL HAZARDS ONLY
IN ACCORDANCE WITH UL2601-I/CAN/CSA C22.2 NO.601.1
IEC 60601-I-1   53MK

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FUJI COMPUTED RADIOGRAPHY CR Console	FUJIFILM Mammography Workstation
Quality assurance and patient ID workstation for FCR. • Optional software: DICOM MWLM, DICOM MPPS, DICOM CR Storage SOP, DICOM Storage Commitment, DICOM MG Storage, DICOM Print, Electronic shutter, Image composition, MFP, PEM, GPR and others.	Mammography viewing station for FCR. • High resolution monitor is recommended. • Single or dual monitor set up is available. • Optional software: CAD[*1], MFP, PEM[*2], DICOM Print, DICOM CR Storage SOP *1 CAD: Although Fujifilm Mammography CAD algorithm aims to identify abnormal or malignant cancer candidates, there exist cases in which Fujifilm Mammography CAD may fail to identify abnormal or malignant candidates or mistakenly identify areas which are normal. *2 PEM: Pattern Enhancement processing for Mammography is a special image processing and therefore usage and application fine-tuning should only be executed under the supervision/assistance of a local Fujifilm representative.

Specifications and PC requirements are subject to change without notice.
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