

FCR PROFECTCS

FUJI COMPUTED RADIOGRAPHY



Setting new standards in digital mammography

Fujifilm responds to high-throughput and other market needs of digital mammography with the introduction of PROFECT CS, a next-generation FCR reader offering image quality optimized to satisfy the most demanding applications. Features include processing capacity sufficient to cover two mammography-screening rooms, and enough processing power for standard examinations. Its 4-cassette stacker and the CR Console's easy operability realize increasing workflow efficiency and enhanced diagnostic breadth.

Image Acquisition – Dual-sided reading

Fujifilm's proprietary dual-sided IP reading technology enables precise extraction of image data from both sides of the imaging plate, ensuring final images with higher Detective Quantum Efficiency (DQE).

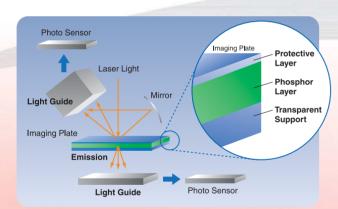


Image Display and Processing – CR Console

With digital mammograms as well as plain x-ray images consistently optimized for quality, and utilizing the same user interface as our well-regarded CR Console, operational convenience is given top priority.





High Productivity – 80 images per hour

PROFECT CS can process up to 80 IP (HR-BD 18 x 24cm) per hour, sufficient to cover two mammography rooms without stress, as well as up to 103 standard IP per hour, ensuring the versatility for departmental use of CR imaging



Output Image qualit

Image quality

Image quality is consistently high with wide latitude and sharp definition, whether digital mammogram or plain x-ray, and whether on print or on display. Optimized images are the result of up to 20-pixel/mm scanning pitch and combining image-processing algorithms.

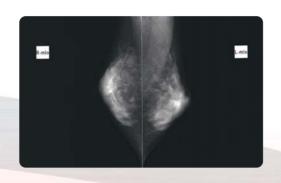


Image Processing

"Image Intelligence™" – a set of sophisticated digital image-processing software technologies available through the CR Console – processes image data and optimizes final output.



MFP

Multi-frequency Processing

An optional software applicable for all types of FCR imaging, MFP is an improved version of Fujifilm's renowned Dynamic Range Control (DRC), and uses frequency enhancement to provide more diagnostic data from a single exposure image. MFP improves visibility of both dense and peripheral tissues by simultaneously applying edge enhancement processing to small and large structures within an image.*

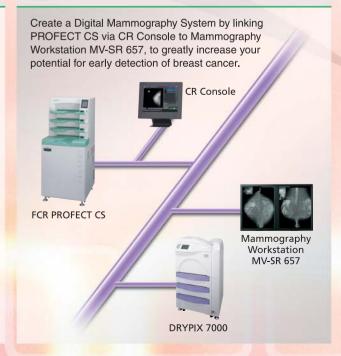
PEM

Pattern Enhancement Processing for Mammography

An optional software specifically developed for mammographic imaging, PEM enhancement processing significantly facilitates identification of tumours while improving the conspicuity of micro-calcifications.*

* Image processing requires the use of FCR CR Console Plus

Digital Mammography System



PROFECTCS

FUJIFILM FCR PROFECT CS Specifications

Standard Components:

- FCR PROFECT CS Image Reader (Model: CR-IR 363)
- AC power cord

Other System Components (sold separately):

- CR Console Plus
- Image Recorder : FL-IMD, FM-DP L, DRYPIX 1000/3000/7000
- ID Card Writer
- · FCR Data Management System

Supplies:

Imaging Plate:

- ST-VI (Standard): 8" x 10", 10" x 12", 14" x 14", 14" x 17", 18 x 24cm, 24 x 30cm
- HR-V (High Resolution): 18 x 24cm, 24 x 30cm
- HR-BD (Dual Side Mammography): 18 x 24cm, 24 x 30cm

IP Cassette:

- Type C with barcode window: 8" x 10", 10" x 12", 14" x 14", 14" x 17", 18 x 24cm, 24 x 30cm
- Type CM with barcode window: 18 x 24cm, 24 x 30cm
- Type DM with barcode on cassette: 18 x 24cm, 24 x 30cm

Time Required for IP Feed/Load: IP auto feed/load mechanism cycle time

IP Type	Required Time
24 x 30cm (HR-BD)	Approx. 85 sec.
18 x 24cm (HR-BD)	Approx. 75 sec.
14" x 17" (35 x 43cm)	Approx. 60 sec.
14" x 14" (35 x 35cm)	Approx. 54 sec.
10" x 12"	Approx. 50 sec.
8" x 10"	Approx. 40 sec.
24 x 30cm (ST-VI)	Approx. 51 sec.
18 x 24cm (ST-VI)	Approx. 42 sec.
24 x 30cm (HR-V)	Approx. 65 sec.
18 x 24cm (HR-V)	Approx. 55 sec.

Processing Capacity

(in high-pixel density two-image output format):

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IP Type	When connected to DRYPIX 7000/CR Console Plus			
24 x 30cm (HR-BD)	Approx. 60 IPs/hr.			
18 x 24cm (HR-BD)	Approx. 80 IPs/hr.			
14" x 17" (35 x 43cm)	Approx.103 IPs/hr.			
14" x 14" (35 x 35cm)	Approx.120 IPs/hr.			
10" x 12"	Approx.128 IPs/hr.			
8" x 10"	Approx.165 IPs/hr.			
24 x 30cm (ST-VI)	Approx.128 IPs/hr.			
18 x 24cm (ST-VI)	Approx.165 IPs/hr.			
24 x 30cm (HR-V)	Approx. 90 IPs/hr.			
18 x 24cm (HR-V)	Approx.110 IPs/hr.			

Time to Print on DRYPIX 7000 through network via CR Console:

Approx. 130 sec.

Time to Print on DRYPIX 7000 (18 x 24 HR-BD) :

157 sec

Time To Display on CR Console:

• 18 x 24cm HR-BD: 50 sec.

Image Reading (Image output is via CR Console)

	Standard Pixel-density		Hi Pixel-density	
Reading Size	Spatial Resolution (Pixels/mm)	Number of Pixels	Spatial Resolution (Pixels/mm)	Number of Pixels
24 x 30cm (HR-BD)	10	2364 x 2964	20	4728 x 5928
18 x 24cm (HR-BD)	10	1770 x 2370	20	3540 x 4740
14" x 17" (35 x 43cm)	5	1760 x 2140	10	3520 x 4280
14" x 14" (35 x 35cm)	5	1760 x 1760	10	3520 x 3520
10" x 12"	6.7	1670 x 2010	10	2505 x 3015
8" x 10"	10	2000 x 2510	10	2000 x 2510
24 x 30cm (ST-VI & HR-V)	6.7	1576 x 1976	10	2364 x 2964
18 x 24cm (ST-VI & HR-V)	10	1770 x 2370	10	1770 x 2370

Number Of Stackers: 4 Reading Grav Scale: 12 bits Network: 10 Base T/100 Base T

Dimensions (W x D x H): 655 x 740 x 1480mm (26" x 29" x 58")

Weight: 285kg (628lbs.) **Power Supply Conditions:** Single phase 50-60Hz 120-240V ±10% 7A (max)

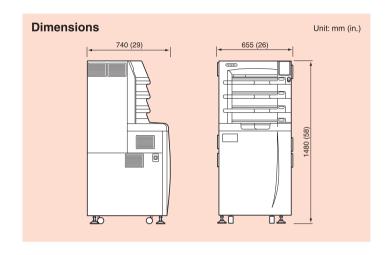
Environmental Conditions:

 Operating Conditions: Temperature: 15-30°C

Humidity: 40-80%RH (No dew condensation)

 Non-operating Conditions: Temperature: 0-45°C

Humidity: 10-90%RH (No dew condensation)



IP Cassette with Imaging Plate



DM Cassettes for dual side mammography is shown on the photo. Other types and sizes are also available.



"Image Intelligence™" is a set of sophisticated digital image-processing software technologies that are incorporated in the FCR PROFECT CS.





Specifications and PC requirements are subject to change without notice. All brand names or trademarks are the property of their respective owners. FCR PROFECT CS and MV-SR 657 are not available for sale in the US market.



FUJIFILM Corporation

http://www.fujifilm.com/products/medical