



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).

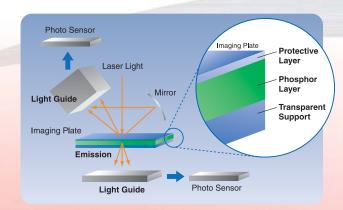


Image Display and Processing - CR Console

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.



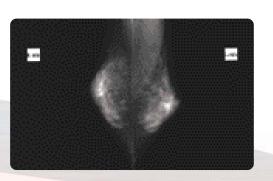


High Productivity – 80 images per hour

Output PROFECT

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.



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.



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.



P 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.*

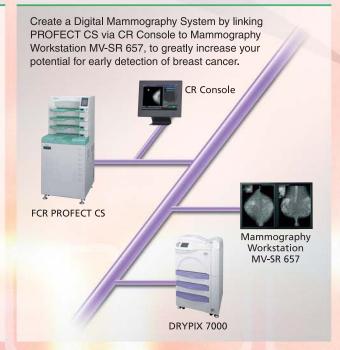
PEM

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:

| ii aato recarioaa inconamoni oyole tiine | |
|--|-----------------|
| 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):

| | - | | |
|-----------------------|--|--|--|
| 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:

- 14" x 17" : 39 sec.
- 18 x 24cm HR-BD: 50 sec.

Image Reading (Image output is via CR Console)

| Standard | | cel-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 Gray 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)

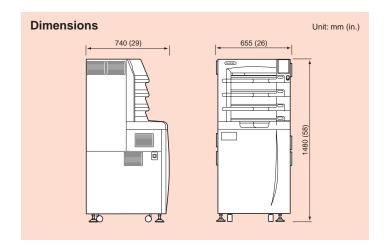
Environmental Conditions:

· 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 Mammography is not for sale in the USA.

