

FUJIFILM

CR Console

FUJI COMPUTED RADIOGRAPHY

*The Ultimate Multi-function Console with
On-Demand Quality Assurance*



FCR

The heart of your FCR System

What if all the complex procedures in digital X-ray imaging – patient identification, image preview, processing and printing, DICOM interfacing and so on – could all be performed at a single workstation? At Fujifilm, we've not only made this possible, we've also made it extremely easy, with our new CR Console featuring touch-panel screen and intuitive software. Included are a variety of Fujifilm's renowned image processing, the versatility to network with varied and multiple FCR readers, plus DICOM compliancy for easy interface with other modalities or network devices, all on a PC-based processing platform.

Fujifilm's CR Console has everything required to provide superior diagnostic capability in a wide range of systems, including high-resolution (HQ*1) and Dynamic Range Control (DRC*1) as standard features, plus other specialized image-processing features (*2), in two new software packages: CR Console Lite for patient identification terminal and simplified QA, and CR Console Plus for added on-demand QA. Make it the heart of your FCR system, and ensure your patients the ultimate in care they deserve.

*1 Included with the standard configuration.
*2 Optional software.

Main features

Touch-panel Operation

Following the intuitive instructions on the displayed GUI allows the operator to quickly complete all necessary steps in an examination.

Identification Terminal

DICOM modality worklist, Fujifilm proprietary HIS/RIS online connection, manual input, or swiping a magnetic card all allow the CR Console to quickly and easily accommodate and verify patient identification, as well as creating a patient information database.

Preview and Quality Assurance

Scanning an image into an FCR reader will immediately show a preview image on the display screen, verifying patient positioning as well as retake requirements. Confirmation of the previewed image, following processing with automatically selected parameters, readies the image for transmission to PACS or printer.

DICOM Compliance

- Modality Worklist Information Model – FIND SOP Class as SCU
 - Modality Performed Procedure Step SOP Class as SCU
 - CR Image Storage SOP Class as SCU
 - Digital Mammography Image Storage SOP Class as SCU
 - Storage Commitment Push Model SOP Class as SCU
 - Basic Grayscale Print Management Meta SOP Class as SCU
- Conformance statement is available upon request.



FCR XG5000

FCR PROTECT CS

FCR VELOCITY U

CR Console

Plus

Lite

FCR XU-D1

FCR 5502D plus

FCR XG-1

System Overview

Image Intelligence
"Image Intelligence" is a set of sophisticated digital image-processing software technologies that are incorporated in the CR Console.

CR Console Lite / Plus

CR Console Lite

A patient identification terminal with preview function. Flexible product configuration is possible by combining various optional software products. Each CR Console Lite can operate independently as a stand-alone unit, or in parallel with other CR Console Lite, forming a shared database functionality.

CR Console Plus

A quality assurance station designed for use in combination with various image processing options. CR Console Plus can be used in a stand-alone environment, or more powerfully in conjunction with CR Console Lite to perform on-demand quality assurance.



System Expandability

A variety of optionally available software products enable each CR Console to be individually configured to match site/user needs.

DICOM product options include

MWM, MPPS, CR Storage, Mammography Storage, Storage Commitment, Print, etc.

Other utility options

Serial ID online (Fuji proprietary), direct-to-printer connectivity, Fuji-net connectivity, LUT adjustment to DICOM.

Image Processing Options

MFP

Multi-frequency Processing:

An optional software applicable for all types of FCR imaging. MFP is an enhanced version of Fuji's well-known Dynamic Range Control (DRC), and provides more diagnostic information from a single exposure image through frequency enhancement.

PEM

Pattern Enhancement Processing for Mammography:

An optional software developed especially for mammography imaging, whose enhancement processing greatly facilitates identification of tumors and/or microcalcifications.

** Not available for sale in the US market*

ES

Energy Subtraction:

A special image processing that allows users to generate soft-tissue images from which bone images have been erased, as well as bone images minus soft tissue images. With the FCR XU-D1, ES processing became available for routine usage at higher throughput and with 3-on-1 film presentation.

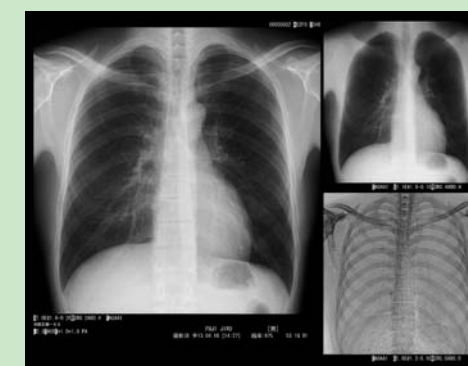
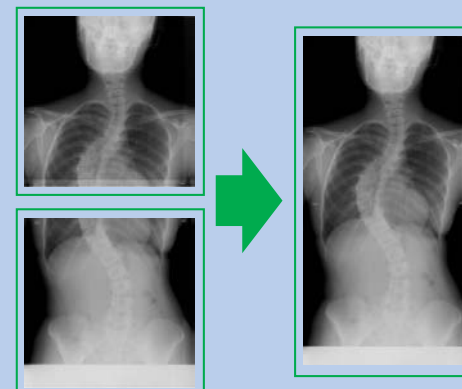


Image Composition

Images acquired using Fuji IP Cassette Type L are electronically stitched to form a single image, with automatic processing of image composition on CR Console.



FNC

Flexible Noise Control

FNC selectively suppresses noise components while maintaining signal contrast, improving granularity in "noisy" anatomical regions.

GPR

Grid Pattern Removal

GPR eliminates moiré patterns from CR images exposed using a stationary grid.

System Configuration

Distributed Image Database Information Technology

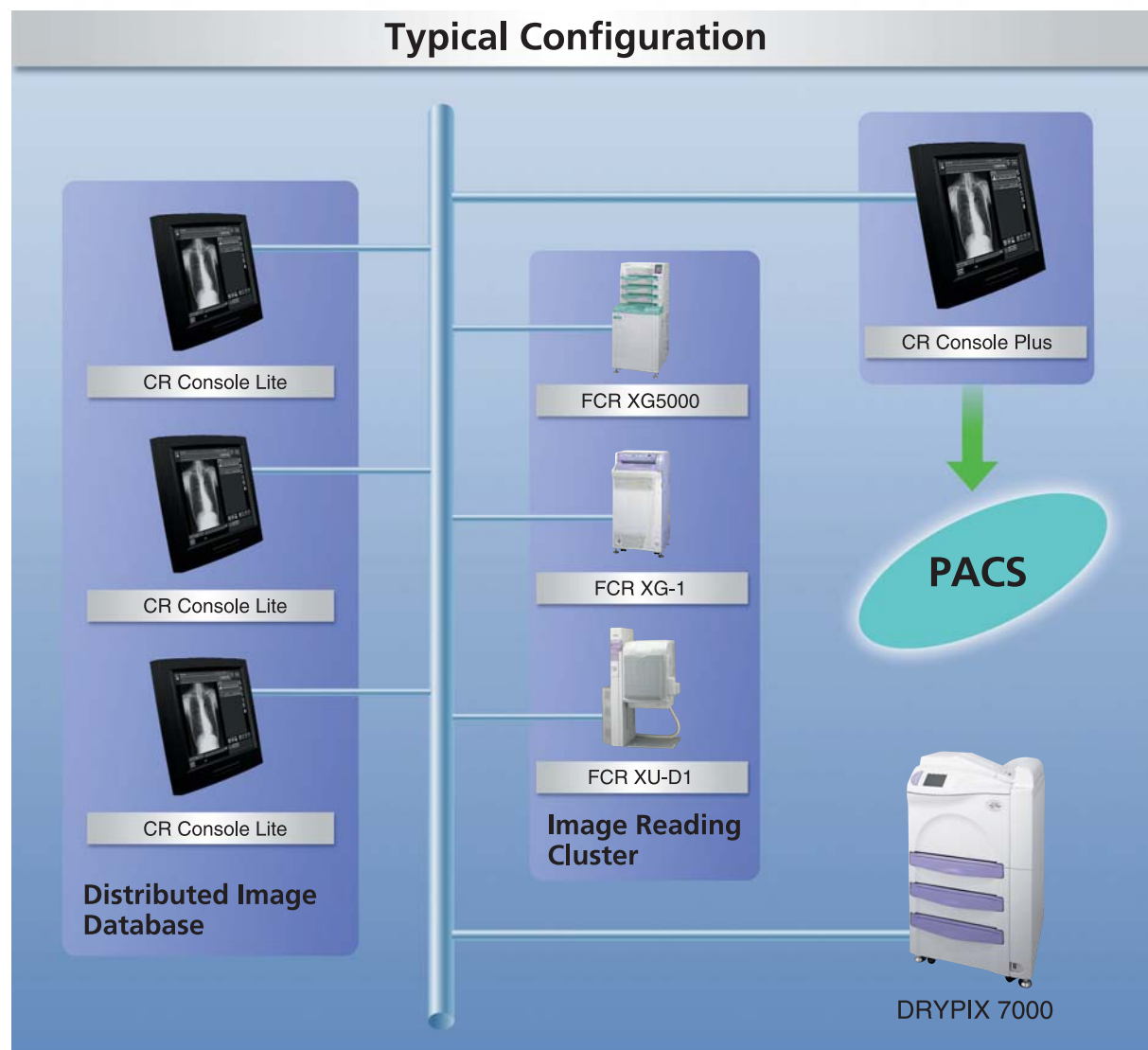
Flexible system

- CR Console Lite for every room and CR Console Plus for secondary QA station comprises a distributed yet seamless integration of distributed image database concept.
- Imaging plate can be registered at any of the networked CR Console Plus / Lite and be read at any of the networked FCR readers.

Secondary quality assurance, "on-demand"

- Following preview, image(s) ready for release from CR Console Lite can be directly sent to either network printer or PACS. CR Console Plus on the same network can perform secondary quality assurance.
- Secondary QA can be performed by single image, or simultaneously using optional software.

Typical Configuration



CR Console and Peripherals

CR Console Main Unit

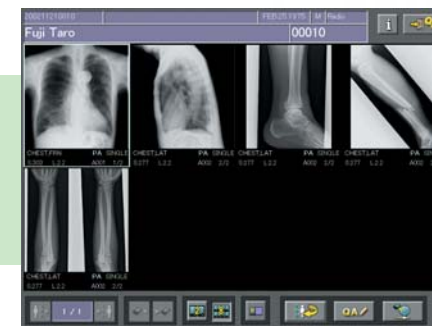
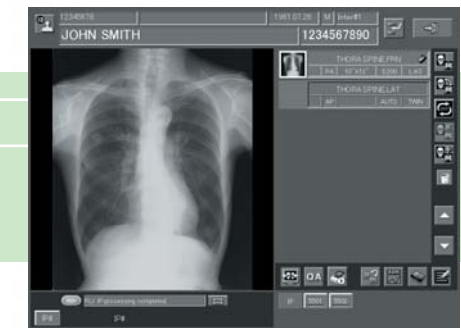


Study Reception

A typical working area for entering a study or receiving studies from a worklist.

Image QA

Image preview and confirmation is executed on this screen. Post-processing can be implemented as desired.



Tile View

Allows simultaneous viewing of from 2 up to 8 individual frames on the same console screen.

Optional Items

SL-IC 300

SL-IC 300 is a monochrome LCD 21" monitor with resolution of 2048 x 1536 pixels at 256 grayscale depth. The 3-mega-pixel monitor is extremely high resolution and well suited for softcopy reading of the images acquired by the FCR reader.



SL-IC 200

20-inch 2-mega pixel LCD monitor in gray scale is also available as an optional display device. The display can be used in either portrait or landscape orientation.



Barcode Reader

Barcode reader is used to register imaging plates.



Magnetic Card Reader



CR Console with FCR lineup

FCR XG-1

Compact and convenient, the FCR XG-1 takes digital x-ray imaging out of the radiology department

- Easy to use, most compact FCR reader available from Fujifilm.
- Includes all necessary image-processing tools with functionalities.
- Ideal choice for distributed image acquisition.
- Complete information available in leaflet ref # XB-053.



FCR VELOCITY U

Fastest FCR upright image reader in a compact, easy-to-use design

- Unequaled 240 IP per hour processing at 10-pixel resolution.
- Unexcelled image quality through revolutionary HD LINESCAN technology using large-sized CCD unit.
- Complete information available in leaflet ref # XB-364.



FCR XG5000

Increased efficiency and operator-friendliness make the XG5000 the standard of excellence in the FCR reader line-up

- Extremely compact overall yet supremely powerful in specified applications.
- Convenient four-cassette stacker minimizes waiting and optimizes processing capacity.
- Complete information available in leaflet ref # XB-362.



FCR XU-D1

Flagship CR system sets standard for quality and speed

- Upright reader has same capacity as FCR 5501 plus, and can also output ES (energy subtraction) image data to CR Console for unique ES processing.
- Complete information available in leaflet ref # XB-264.



FCR PROTECT CS

Next-generation FCR reader offers image quality optimized to satisfy the most demanding applications

- Sufficient processing capacity for two mammogram screening rooms.
- Process up to 80 IP (HR-BD 18 x 24 cm) per hour, or 103 standard IP per hour.
- Complete information available in leaflet ref # XB-363.



* Not available for sale in the US market

FCR 5502D plus

Advanced dual-side reading technology plus high resolution for superb image quality

- Table-type image reader has three (3) built-in IPs; moveable tabletop eases mounting and dismounting for patients.
- Dual-side reading technology delivers Fujifilm's highest currently available image quality.
- Complete information available in leaflet ref # XB-263.



FUJIFILM

FUJIFILM Corporation

26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN
<http://www.fujifilm.com/>