

**FUJIFILM** I&I-Imaging & Information

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**FUJIFILM** 

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# FUJI COMPUTED RADIOGRAPHY

# **CR** Console

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





# 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 highresolution (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 5000 plus

FCR XG-1

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# System Overview

### ○ 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.



### **O** 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.

MFP	<b>Multi-frequency Processing</b> An optional software applicable for all type enhanced version of Fuji's well-known Dy provides more diagnostic information from frequency enhancement.	
PEM	Pattern Enhancement Processing for M An optional software developed especially whose enhancement processing greatly fa and/or microcalcifications.	
ES	Energy Subtraction: A special image processin users to generate soft-tiss which bone images have well as bone images minu images. With the FCR XU processing became availa usage at higher throughpu 3-on-1 film presentation.	ng that allows sue images from been erased, as is soft tissue I-D1, ES able for routine ut and with
mage Com	position	Electronic
nages acquired using Fuji IP cassette Type L are electronically titched to form a single image, with utomatic processing of image omposition on CR Console.		This optional allows highlig specific areas the CR conso blackening ou surrounding a irradiated field
		Regions of in

h

Image Processing Options

FUJI COMPUTED RADIOGRAPHY CR Console



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

es of FCR imaging. MFP is an namic Range Control (DRC), and n a single exposure image through

Mammography: y for mammography imaging, acilitates identification of tumors



#### Shuttering

software hting of of interest on ole image by ut unneeded reas of the



#### gnification

terest can be magnified manually for ing.

# 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.



# **C**R Console and Peripherals

#### CR Console Main Unit



# studies from a worklist.

#### Image QA

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



#### **Tile View**

### Optional Items

#### **SL-IC 300**

SL-IC 300G is a monochrome LCD 21" monitor with resolution of 2048x1536 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.



FUJI COMPUTED RADIOGRAPHY CR Console

A typical working area for entering a study or receiving



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

#### **CRT Monitor**

Conventional CRT monitor or 1600x1200 high resolution type can be used.



#### **Barcode Reader**

Barcode reader is used to register imaging plates.

Magnetic Card Reader



# CR Console with FCR lineup

## FCR 5000 plus

Combine your current assets with the FCR 5000 plus to quickly and efficiently turn x-ray images into digital

- · Most versatile FCR reader with capacity to process over 100 imaging plates of all sizes and types per hour at 10 pixels/mm resolution.
- Features four slots for convenient and efficient IP processing.
- Complete information available in leaflet ref # XB-261.



# 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.

## FCR 5000MA plus

#### Superior image quality and enhanced workflow optimize digital mammography

- 20 pixel/mm sampling pitch combined with dual-side IP reading ensures highest image quality available from Fujifilm.
- 18 x 24cm and 24 x 30cm sizes available for mammography exams.
- Standard IPs of varying size can also be processed.
- The CR Console for the FCR 5000MA plus requires a separate PC model than the other CR Consoles. Please consult your local distributor for details.
- Complete information available in leaflet ref # XB-153.



## 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 5501 plus

Basic upright CR system with enhanced flexibility eases digital transition

- Basic upright reader with processing capacity of 120 IPs/hour at 43 x 43cm capture size, and 10 pixel/mm resolution.
- · Ideal for chest screening applications.
- Complete information available in leaflet ref # XB-262.



# 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.









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