FUJIFILM DIGITAL X-RAY

FCR Carbon

The most compact full-featured digital x-ray under the sun.

FCR innovation

FUJIFILM

With FCR Carbon, every imaging environment can benefit from the exceptional image quality and high productivity of a Fujifilm CR system.

We asked thousands of users what they wanted – and needed – from a digital x-ray system. Based on this feedback, we created two readers that deliver all the productivity and image quality benefits of a traditional FCR system in a size that's perfect for every imaging environment. And with the throughput capacity that meets your needs.

Both the FCR Carbon XL-2 and FCR Carbon X:

- Feature a compact footprint of less than 2.5 square feet and are only 32" tall, so they can fit virtually anyplace where space is at a premium.

- Offer image availability beginning in only 10-12 seconds, with full image availability in as little as 23 seconds.

- Are capable of networking to other Fujifilm Flash IIP Consoles and FCR and FDR digital x-ray systems.

Unparalleled productivity.

Each FCR Carbon system includes Fujifilm's Flash IIP Console, the first technologist workstation to offer a fully customizable user interface.

- Flex UI software allows users to access functions used most frequently in the QC process, streamlining workflow.

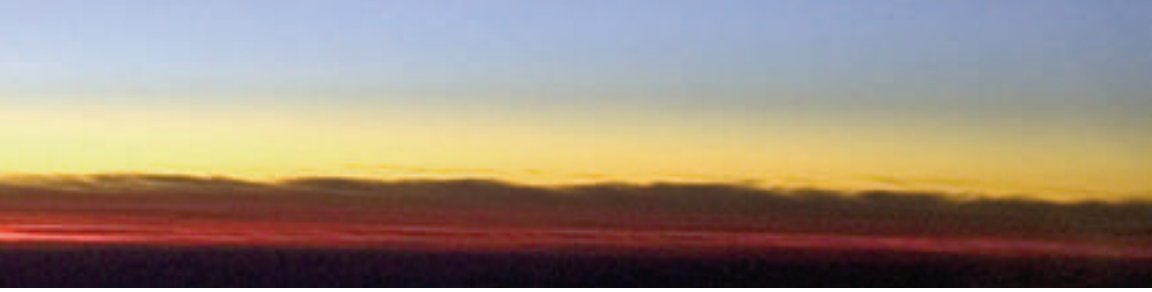
- Your hospital procedure codes can be directly mapped to Fujifilm's exam menus to minimize workflow steps, errors and time-consuming corrections.

- Process an exam in only three steps.

Step 1

Step 2

Step 3



Choose the FCR Carbon that fits your needs.

The FCR Carbon XL-2. This fast, full-featured reader is ideal for higher volume distributed environments.

- Featuring a Fast Scan mode for speed of up to 94 images per hour.
- The Carbon XL-2 now supports a 50µ Reading Mode* for super-sharp, excellent detail — ideal for extremity exams.
- Perfect for inside exam rooms or trauma bays, where quick image availability is critical.

The FCR Carbon X. Perfect for moderate volume or remote applications.

- With throughput speeds of 43-72 images per hour, it's a great choice for moderate volume, in-room and redundancy applications without compromising speed, image quality or flexibility.
- It's also ideal for remote locations, such as intensive care or surgery, that need to electronically transmit images back to the main department.

**Not intended for mammography use. However, it can be used for specimens.*

Exceptional image quality, every time.

Each FCR Carbon system is also built with Image Intelligence™, a suite of superior technologies that ensure optimal image quality and consistency:

- Standard Image Resolution is 100 micron, 10 pixels/mm.

- Multi-objective Frequency Processing (MFP) uses a sophisticated algorithm to provide a well balanced compensation of anatomy densities to present a more natural depiction of areas of low visibility, ideal for spine, skull and prosthetic exams.

- Dynamic Range Control (DRC) improves visibility of both dense and peripheral tissue by adjusting density and contrast characteristics.

- Flexible Noise Control (FNC) separates signal and noise components within the same image, selectively suppressing noise with minimal loss of sharpness for optimal image display.

- Grid Pattern Removal (GPR) automatically detects grid patterns, then uses a two-dimensional technique to remove them. This prevents the appearance of a moiré pattern, which can occur when using a stationary grid.

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

Minimum System Configurations

FCR Carbon X/XL-2 readers – *employs standard lightweight Fujifilm Cassettes and Imaging Plates.*

Cassettes and Image Plates: (types: CC, CB, LC, PC) inch sizes 8x10, 10x12, 14x17, 10x24, 14x34, 14x40, 14x50, (or metric: 15x30cm, 18x24, 24x30, 35x43), IP Types: ST-VN & ST-VI.

The XL-2 additionally supports new 50 micron Type–CH 18x24 & 24x30cm cassettes and HR imaging plates.

Image Preview: starts in 12 seconds, complete 23-39 sec from cassette insertion (fully processed)

Throughput: XL-2: 62-92/X: 43-72 image plates/hour (XL-2: Fast Scan mode: 87/hr 14x17")

Cycle Time: XL-2: 38-58 sec., X: 50-82 sec (XL-2: 14x17" Fast Scan mode: 41 sec cycle time)

Image Reading Specifications: 12 bits gray scale, output: 10 or 12 bits

Reading Density: Standard mode 100 micron, 10 pixels/mm (200 micron 5 px/mm mode also avail).

External Dimensions : W23.2 x D15.0 x H31.9 inches (590x380x810mm)

Weight: 216 lb. (98kg)

Power: 120-240VAC +/-10% single-phase 50-60 Hz, 5A max amperage, XL: 290/X: 200 W max power

Environmental: temperature: 59-86°F (15-30°C), humidity: 40-80% RH (no dew condensation), heat output: XL: 995/X: 692 BTU/hr

Flash IIP workstation – *Flash Lite IIP included standard (optionally available with Flash Plus IIP for the QC technologist or built on a semi-rugged laptop version) performs patient ID, worklist updates, image processing, QA and image transmission.*

PC Hardware: Robust desktop computer, Pentium Core 2 Duo, Windows XP Pro, 2Gb RAM, 160Gb HD (retains up to 8,000 images per workstation), 19" color LCD touchscreen display (or 20" monochrome 2 Mega pixel on the Flash Plus IIP), barcode scanner, keyboard & mouse, connectivity to RIS/HIS & PACS using DICOM protocols, network interface 100 Base-T, half or full. See datasheet for Flash IIP for more details.

Accessories: additional Flash IIP consoles, advanced imaging capabilities (such as DVD storage, Stitching and more), workstation/reader stand and seismic & mobile vehicle mounting hardware are available separately.

FUJIFILM

FUJIFILM Medical Systems USA, Inc.

Corporate Headquarters

419 West Avenue
Stamford, CT 06902-6348
203-324-2000
800-431-1850

29012 N. Hancock Parkway
Bldg 7
Valencia, CA 91355-1007
800-431-2861

850 Central Avenue
Hanover Park, IL 60133-5422
630-585-2202
800-323-2546

www.fujimed.com

XBUSCR167