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FCR Carbon: the fundamental element making digital x-ray universal.



Now every imaging environment can benefit from the exceptional image quality and high productivity of an FCR system.

Fuji created the FCR Carbon digital x-ray series based on feedback from thousands of users. What did they say? Reduce the system's footprint. Make image previews quicker. Create a means to support multiple imaging applications. And deliver uncompromised image quality, consistently. That's why with FCR Carbon, you get 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.

So much power in such a small package.

FCR Carbon systems have a compact footprint of less than 2.5 square feet and are only 32" tall, so they can fit in any exam room, under counters – virtually anyplace where space is at a premium. And with their high throughput and image availability beginning in 10–12 seconds, Carbon XL systems are fast enough to handle busy periods as well as the most demanding environments, where quick image access is critical. Plus, they can be networked to other FCR systems, so they're flexible enough to support remote locations like ICU or surgery where the Carbon X is ideally suited.

Unparalleled productivity.

Each FCR Carbon system includes Fuji'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, without adding workflow steps. Add annotation markers to images with a single tap on the screen. With another tap, flip or rotate an image. Or type free-text comments to a radiologist. Since there's a wide range of anatomical menus to choose from, images are processed appropri-



ately for an optimal first-up display. The result: technologists don't waste valuable time trying to improve the quality of an image for the intended exam. And with the Flash IIP console, your hospital procedure codes can be directly mapped to Fuji's exam menus, minimizing workflow steps, errors and time-consuming corrections.

Exceptional image quality, every time.

Every Fuji CR system features a wide range of sophisticated imaging tools and technologies to enhance image quality, and FCR Carbon is no exception. For example, FCR Carbon is built with Image Intelligence™, a suite of superior technologies that ensure optimal image quality and consistency. Here are some of the image processing tools included:

- **Multi-objective Frequency Processing (MFP)** selectively and simultaneously applies varying degrees of contrast and spatial frequency enhancement to different-sized structures within the same image. This improves the visibility of both dense and peripheral tissue.
- **Dynamic Range Control (DRC)** improves visibility of both dense and peripheral tissue.
- **Flexible Noise Control (FNC)** extracts noise data and suppresses noise levels from images without losing sharpness and associated diagnostic information. This improves granularity in noisy anatomical regions and improves image quality in exams when lower doses are expected.



- **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.

But that's not all. Here's a rundown of other tools and technologies

included in FCR Carbon:

- **Exposure Data Recognizer (EDR)** automatically detects the most important data captured by an Imaging Plate (IP), then applies anatomically-specific processing to present the optimal image for the intended exam. By masking noise and other useless information, EDR optimizes images for diagnosis.
- Every image is scanned at HQ (10 pixel/mm) spatial resolution, regardless of plate size. This means that you get exceptional detail every time without ever having to use special imaging plates – and without impacting throughput*.

- Fuji's IPs feature the highest DQE and signal-to-noise ratio of available cassette-based systems on the market today.



Choose the FCR Carbon that fits your needs.

The FCR Carbon XL. Fast enough for more demanding applications. Small enough to fit anywhere.

The FCR Carbon XL can process up to 94 images per hour in fast scan mode – yet its small size makes it perfect for exam rooms or trauma bays, where quick image availability is critical. With this kind of speed, the Carbon XL also serves as a great redundancy solution during busy periods.

The FCR Carbon X. Ideal for lower-volume or remote applications.

With throughput speeds of 43–72 images per hour, the FCR Carbon X is a great choice for environments with lower caseloads that simply won't compromise on image quality. It's ideal for remote locations, such as intensive care or surgery, that need to electronically transmit images back to the main department. So no matter where image acquisition takes place, you get consistent, high-quality images every time.

Fuji CR. There is a difference.

Why is Fuji CR chosen by more hospitals by any other brand? Maybe it's because more than two decades of industry-leading innovation, refinement and user feedback go into every system. Or maybe it's because we're committed to delivering four crucial elements to each and every customer: outstanding image quality, groundbreaking technology innovation, unmatched productivity and exceptional professional services. Whatever the reason, one thing's for sure: with FCR, there is a difference.



*During Carbon XL's fast scan mode, images are scanned at 5 pixel/mm resolution.