Application

The Fujifilm Computed Radiography (FCR) XL-2 and XC-2 are digital radiography systems utilizing storage phosphor Imaging Plates (IP) as an x-ray detection device.

FCR XL-2 and XC-2 units scan and process x-ray image information from an IP that has been exposed using a cassette-type x-ray stand. This system can also print out hard copies on film via a connected image recorder and can transmit digital images to PACS.

The FCR XL-2 and XC-2 provides general x-ray imaging for Private Practitioners. FCR XL-2 and XC-2 systems also include the capability to perform Pantomographic exams.

Features

Due to the benefits of digital image processing, the system produces radiographs that have a high diagnostic value and are easy to read. Fast Scan (200µ), Standard High Resolution (100µ) and High Resolution (50µ) size using HR IP’s is possible with the FCR XL-2.

Reading modes are user selectable. Fast Scan reading provides maximum throughput for the XL-2 for both 14x14” and 14x17” sizes, while standard HQ reading mode provides 10 pixel/mm resolution image acquisition and display for all intake sizes without impacting system speed.

High Resolution (50µ) Scanning is available with the FCR XL-2 for 18x24cm and 24x30cm sized (HR IP’s) making it ideal for orthopedic and extremity applications, where seeing fine detail is critical.

The system’s wide latitude and automatic sensitivity adjustment function protects radiographs from variations in x-ray exposure conditions. This results in consistent image density for all types of radiographs. Image processing parameters are selected through anatomical region selection menus.

The FCR XL-2 reader can be network connected to multiple Flash IIP (Image & Information Processor) consoles and other FCR readers for maximum scalability and redundancy.

The FCR XC-2 supports a dedicated relationship of the reader to the Flash IIP console workstation.

A Flash IIP console workstation is provided standard with each reader unit. Fujifilm’s Flash IIP is designed for simple and fast patient identification, image viewing, reprocessing and optimization. It integrates patient identification process (via manual entry or automated by connection with RIS/HIS using DICOM Worklist Management) with Fujifilm’s intelligent image processing and ability to transmit images to PACS and/or imagers.

The Flash IIP features a simplified user interface, which allows for complete patient processing in as few as 3 easy steps. See Flash IIP datasheet for more information.

Options

Dedicated XL-2, XC-2 cart: Heavy duty engineered stand providing countertop and cassette holder space for the reader, with the CPU and monitor of the Flash IIP console.
Other System Components
Flash IIP consoles
Flash IIP Laptop
FCR External DVD-RW
Custom Stand
Seismic Brackets
Mobile Kit
Axon (Sold Separately)

Available IP Cassette Types
- Inch settings: 14 x 17", 14 x 14", 10 x 12", 8 x 10", 14 x 34", 14 x 40", 14 x 50", 15 x 30cm
- Metric settings: 35 x 43cm, 35 x 35cm, 24 x 30cm, 18 x 24cm, 15 x 30cm

Mobile kit
Hardware brackets to stabilize & support for mobile vehicle use.
Optional FCR XL-2 and XC-2 Laptop Flash IIP console also available to reduce space requirements.

FCR XL-2 Image Reader
(Model: CR IR 359 RU2E) &
FCR XC-2 Image Reader
(Model: CR IR 357RU2E)
- (1) IP cassette type CC, LC, PC
- (2) Flash IIP Console
- (3) Image Recorder:
  - DRYPIX 2000, DRYPIX 4000
  - DRYPIX 5000

Supplies
Fujifilm Imaging Plates (IP)
- Standard type ST-VI
- (14 x 17" (35 x 43cm), 14 x 14" (35 x 35cm), 10 x 12", 8 x 10", 24 x 30cm, 18 x 24cm, 15 x 30cm)

FCR XL-2 Sampling Rate
- FCR XC-2 Sampling Rate

Throughput (IP/hour)

<table>
<thead>
<tr>
<th>IP/Cassette Size</th>
<th>FCR XL-2</th>
<th>FCR XC-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>14x17&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14x14&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10x12&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8x10&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24x30cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18x24cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15x30cm</td>
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</tr>
</tbody>
</table>

Cycle Time (Sec.)

<table>
<thead>
<tr>
<th>IP/Cassette Size</th>
<th>FCR XL-2</th>
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</tr>
</thead>
<tbody>
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<tr>
<td>24x30cm</td>
<td></td>
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<tr>
<td>18x24cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15x30cm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reading Size
- 14x17": 5 pixels/mm, 5 pixels/mm
- 14x14": 5 pixels/mm, 5 pixels/mm
- 10x12": 10 pixels/mm, 10 pixels/mm
- 8x10": 10 pixels/mm, 10 pixels/mm
- 24x30cm: 20 pixels/mm, 20 pixels/mm
- 18x24cm: 20 pixels/mm, 20 pixels/mm
- 15x30cm: 20 pixels/mm, 20 pixels/mm

Footprint For Placement
Installations Without Floor Anchoring
Seismic & Vehicle Mounted Installations
Need 52” Minimum Height

Cart Dimensions

Reading gray scale: 12 bits/pixel
Output gray scale: 10 or 12 bits/pixel

- FCR XL-2
- FCR XC-2

Power Supply Conditions
- Single phase 50–60Hz
- AC 120–240V ±10%
- 5A (Max.)

Operating Conditions
- Temperature: 15 - 30°C
- Humidity: 40 - 80%RH (No dew condensation)
- Heat Output: XL-995 BTU/hr
- XC-692 BTU/hr
- Power consumption: XL-290 VA (W) or less
- XC-200 VA (W) or less

EXTERNA L DIMENSIONS AND WEIGHT*: 

<table>
<thead>
<tr>
<th>Width in. (mm)</th>
<th>Depth in. (mm)</th>
<th>Height in. (mm)</th>
<th>Weight lb. (kg)</th>
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</thead>
<tbody>
<tr>
<td>23.25(590)</td>
<td>15(380)</td>
<td>32(810)</td>
<td>218(99)</td>
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</tbody>
</table>

* Dimensions and weight are approximate and are subject to change without prior notice.

FCR XL-2/XC-2 Image Reader
**Other System Components**

- Flash IIP consoles
- Flash IIP Laptop
- FCR External DVD-RW
- Custom Stand
- Seismic Brackets
- Mobile Kit
- Axon (Sold Separately)

**Available IP Cassette Types**

- Inch settings
  - 14 x 17”, 14 x 14”, 10 x 12”, 8 x 10”, 14 x 34”, 14 x 40”, 14 x 50”, 15 x 30cm
- Metric settings
  - 35 x 43cm, 35 x 35cm, 24 x 30cm, 18 x 24cm, 15 x 30cm

**Supplies**

- Fujifilm Imaging Plates (IP)
  - Standard type ST-VI
- IP Cassette size
  - CC, LC, PC

**Reading Size**

- Pixel Density: 10 pixels/mm
  - 14x17”, 14x14”, 10x12”, 8x10”, 14x34”, 14x40”, 14x50”, 15x30cm

**Fujifilm Imaging Plates (IP)**

- DR YPIX 2000, DR YPIX 4000
- DR YPIX 5000

**Image Reader**

- FCR XL-2 Image Reader
  - (Model: CR IR 359 RU2E)
- FCR XC-2 Image Reader
  - (Model: CR IR 357 RU2E)

**IP Cassette Type**

- 1) IP Cassette type CC, LC, PC
- 2) Flash IIP Console
- 3) Image Recorder:
  - DR YPIX 2000, DR YPIX 4000
  - DR YPIX 5000

**FCR XL-2/XC-2 Image Reader**

- **Power Supply Conditions**
  - Single phase 50-60Hz
  - AC 120-240V ±10%
- **Heat Output:**
  - XL-995 BTU/hr
  - XC-692 BTU/hr
  - (No dew condensation)
- **Operating Conditions**
  - Temperature: 15 - 30°C
  - Relative Humidity: 40 - 80% RH
- **Heat Output:**
  - XL-995 BTU/hr
  - XC-692 BTU/hr
  - (No dew condensation)

**CA IRT M DS AND WEIGHT**:

- **Width (in.):** 23.25 (590)
- **Depth (in.):** 15 (380)
- **Height (in.):** 32 (810)
- **Weight (lb.):** 218 (99)

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**FCR XL-2 Sampling Rate**

<table>
<thead>
<tr>
<th>Reading Size</th>
<th>14x17”</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>Number of Pixels</td>
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<td>3520x3520</td>
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<td>250x2510</td>
<td>250x2510</td>
<td>250x2510</td>
<td>250x2510</td>
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</table>

**FCR XC-2 Sampling Rate**

<table>
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<tbody>
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<td>Pica Density</td>
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<tr>
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<td>3520x42920</td>
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<td>250x2510</td>
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**Footprint For Placement**

- Installations Without Floor Anchoring
- Seismic & Vehicle Mounted Installations

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**Cart Dimensions**

- Need 52” Minimum Height

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**Other System Components**

- Flash IIP consoles
- Flash IIP Laptop
- FCR External DVD-RW
- Custom Stand
- Seismic Brackets
- Mobile Kit
- Axon (Sold Separately)

**Available IP Cassette Types**

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  - 35 x 43cm, 35 x 35cm, 24 x 30cm, 18 x 24cm, 15 x 30cm

**Supplies**

- Fujifilm Imaging Plates (IP)
  - Standard type ST-VI
- IP Cassette size
  - CC, LC, PC

**Reading Size**

- Pixel Density: 10 pixels/mm
  - 14x17”, 14x14”, 10x12”, 8x10”, 14x34”, 14x40”, 14x50”, 15x30cm

**Fujifilm Imaging Plates (IP)**

- DR YPIX 2000, DR YPIX 4000
- DR YPIX 5000

**Image Reader**

- FCR XL-2 Image Reader
  - (Model: CR IR 359 RU2E)
- FCR XC-2 Image Reader
  - (Model: CR IR 357 RU2E)

**IP Cassette Type**

- 1) IP Cassette type CC, LC, PC
- 2) Flash IIP Console
- 3) Image Recorder:
  - DR YPIX 2000, DR YPIX 4000
  - DR YPIX 5000

**FCR XL-2/XC-2 Image Reader**

- **Power Supply Conditions**
  - Single phase 50-60Hz
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- **Heat Output:**
  - XL-995 BTU/hr
  - XC-692 BTU/hr
  - (No dew condensation)
- **Operating Conditions**
  - Temperature: 15 - 30°C
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<td>250x2510</td>
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**FCR XC-2 Sampling Rate**

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<td>Pica Density</td>
<td>10</td>
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<td>10</td>
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Options

Dedicated XL-2, XC-2 cart: Heavy duty engineered stand providing countertop and cassette holder space for the reader, with the CPU and monitor of the Flash IIP console.

Product Data

FCR XL-2 & FCR XC-2

Digital X-ray with Exceptional Image Quality for Private Practitioners in an Efficient, Compact Package

Notes:

• Network Interface - 100 Base-T, half or full recommended.
• Interface to other FCR Readers and/or Flash IIPs on the network.
• Any FCR Reader can be utilized after registering the patient at a Flash IIP connected to the same network.
• Database Sharing (option) allows sharing exam and image data between Flash IIP Consoles within Database Sharing cluster.
• Interfacing with Legacy FCR equipment - devices that communicate through DMS protocol can be connected to the network printer by adding an optional Fujifilm DryPix Station to convert the DMS to DICOM.