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 357 RU2E)
(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
HR-V (FCR XL-2 Only)
- 24 x 30cm, 18 x 24cm

Throughput (IP/hour)

<table>
<thead>
<tr>
<th>IP/Cassette Size</th>
<th>XL-2</th>
<th>XL-2</th>
<th>XC-2</th>
<th>XC-2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fast Scan</td>
<td>Standard HQ</td>
<td>Fast Scan</td>
<td>Standard HQ</td>
</tr>
<tr>
<td></td>
<td>(5pixels/mm)</td>
<td>(10pixels/mm)</td>
<td>(5pixels/mm)</td>
<td>(10pixels/mm)</td>
</tr>
<tr>
<td>14x17in</td>
<td>87</td>
<td>62</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>14x14in</td>
<td>94</td>
<td>70</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>10x12in</td>
<td>-</td>
<td>73</td>
<td>54</td>
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<td>8x10in</td>
<td>-</td>
<td>87</td>
<td>67</td>
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<tr>
<td>24x30cm</td>
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<td>75</td>
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<tr>
<td>18x24cm</td>
<td>-</td>
<td>92</td>
<td>72</td>
<td>72</td>
</tr>
<tr>
<td>15x30cm</td>
<td>-</td>
<td>73</td>
<td>55</td>
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</table>

Cycle Time (Sec.)

<table>
<thead>
<tr>
<th></th>
<th>XL-2</th>
<th>XL-2</th>
<th>XC-2</th>
<th>XC-2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard HQ</td>
<td>Fast Scan</td>
<td>HR-V</td>
<td>Stancd HQ</td>
</tr>
<tr>
<td></td>
<td>(5pixels/mm)</td>
<td>(10pixels/mm)</td>
<td>(5pixels/mm)</td>
<td>(10pixels/mm)</td>
</tr>
<tr>
<td>14x17in</td>
<td>58</td>
<td>41</td>
<td>-</td>
<td>82</td>
</tr>
<tr>
<td>14x14in</td>
<td>52</td>
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<td>72</td>
</tr>
<tr>
<td>10x12in</td>
<td>49</td>
<td>-</td>
<td>-</td>
<td>66</td>
</tr>
<tr>
<td>8x10in</td>
<td>41</td>
<td>-</td>
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<td>53</td>
</tr>
<tr>
<td>24x30cm</td>
<td>48</td>
<td>-</td>
<td>59</td>
<td>66</td>
</tr>
<tr>
<td>18x24cm</td>
<td>39</td>
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<td>51</td>
<td>50</td>
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<tr>
<td>15x30cm</td>
<td>49</td>
<td>-</td>
<td>-</td>
<td>65</td>
</tr>
</tbody>
</table>

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

FCR XL-2 Sampling Rate

<table>
<thead>
<tr>
<th>Reading Size</th>
<th>14x17cm</th>
<th>14x14cm</th>
<th>10x12cm</th>
<th>8x10cm</th>
<th>24x30cm</th>
<th>18x24cm</th>
<th>HR-V</th>
<th>HR-V</th>
<th>18x24cm</th>
<th>15x30cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast Scan</td>
<td>5</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Pixel Density (pixels/mm)</td>
<td>1760x2140</td>
<td>1760x1760</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of Pixels</td>
<td>3520x4280</td>
<td>3520x3520</td>
<td>2505x3015</td>
<td>2000x2510</td>
<td>2364x2964</td>
<td>1770x2370</td>
<td>4728x5928</td>
<td>3546x4740</td>
<td>1464x2964</td>
<td></td>
</tr>
</tbody>
</table>

FCR XC-2 Sampling Rate

<table>
<thead>
<tr>
<th>Reading Size</th>
<th>14x17&quot;</th>
<th>14x14&quot;</th>
<th>10x12&quot;</th>
<th>8x10&quot;</th>
<th>24x30cm</th>
<th>18x24cm</th>
<th>15x30cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixel Density (pixels/mm)</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Number of Pixels</td>
<td>3520x4280</td>
<td>3520x3520</td>
<td>2505x3015</td>
<td>2000x2510</td>
<td>2364x2964</td>
<td>2264x2964</td>
<td>1464x2964</td>
</tr>
</tbody>
</table>
EXTERNAL DIMENSIONS AND WEIGHT*:

Power Supply Conditions | Operating Conditions
---|---
Single phase 50–60Hz | Temperature: 15 - 30°C
AC 120–240V ±10% | Humidity: 40 - 80%RH
5A (Max.) | (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

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

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

FCR XL-2/XC-2 Image Reader

Footprint For Placement

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

Cart Dimensions
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.

Specifications subject to change without notice.