FCR CAPSULA XLII Specifications

**Standard Components**
- FCR CAPSULA XLII Image Reader Unit (Model: CR-III 351)
- AC power cord

**Optional System Components**
- Optional upgrade kit for 50-micron reading with HR-V or HR-VI
- IP Cassette
- CONSOLE ADVANCE*, AWS-c
- CR Console, CONSole ADVANCE*, AWS-c
- CR System CONSOLE ADVANCE*, AWS-c
- Dry Imaging: DR/IR 359, 2000, 3000, 3500

**Supplies**
- Imaging Plate:
  - HR-V: 24 cm (10"")
  - HR-VI: 24 cm (10"")
  - HR-VIII: 35 cm (14"")
- IP Cassette:
  - Type CC: 35.4 cm (10"")
  - Type CH: 35.4 cm (10"")
- CR Console, CONSOLE ADVANCE*, AWS-c

**Environmental Conditions**
- Temperature: 18°C to 24°C (No condensation)
- Humidity: 40-80% RH (No condensation)

**Dimensions (W x D x H)**
- 380 (15") x 350 (14") x 810 (32")

**Reading Specification**
- Number of Stacker: 1
- Reading Gray Scale: 12 bits

**Time to Display on CR Console**
- Approx. 70 IPs/hr.
- Approx. 75 IPs/hr.
- Approx. 87 IPs/hr.

**Time Required for IP Feed/Load**
- Approx. 140 sec. in case of 18 cm IP Cassette

**Processing Capacity**
- 600 mR for HR-V.
- Approx. 59 sec.
- Approx. 49 sec.
- Approx. 41 sec.

**Environmental Conditions**
- Temperature: 18°C to 24°C (No condensation)
- Humidity: 40-80% RH (No condensation)

**Power Supply Conditions**
- AC power cord
- Under “Required Time” in the table above, figures in parentheses are at high-speed mode.

**Specifications**
- FCR CAPSULA XLII with Imaging Plate HR-V has cleared FDA* 1/ 510k*2 for mammography applications in the U.S.A market as “ASPIRE CR FOR MAMMOGRAPHY SYSTEM (CRM)”. The “ASPIRE CR FOR MAMMOGRAPHY SYSTEM (CRM)” is a full-field digital medical x-ray system consisting of the following components:
  - FCR CAPSULA XLII Image Reader Unit (Model: CR-III 351)
  - CR System CONSOLE ADVANCE*, AWS-c
  - CR Console, CONSOLE ADVANCE*, AWS-c
  - Imaging Plate: DR/IR 359, 2000, 3000, 3500
  - Dry Imaging: DR/IR 359, 2000, 3000, 3500

**Notes**
- Not for mammography applications
- Requires the optional upgrade kit for positive cassette adapter
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One of the FCR key components is an Imaging Plate, or IP, that is used in place of X-ray film to easily digitize X-ray images. The FCR CAPSULA XL II features the IP in an unprecedented compact frame, as it incorporates over 70 years of FUJIFILM’s extensive technology and know-how.

CAPSULA, meaning small box in Latin, has been cleverly trimmed to be smaller and lighter, boosting flexibility on installation and layout, while maintaining the specifications for a broad range of diagnostic imaging needs from general radiography to pantomography.

Plus, the optional capability of 50-micron reading with the HR-V or HR-VI can be utilized to visualize finer and more minute structures for better diagnosis.

Introducing a newly upgraded FCR CAPSULA XL II designed with a new form and equipped with state-of-the-art functions including an optional capability of 50-micron reading with high resolution imaging plates (HR-V and HR-VI).

### Compact with High Efficiency
FCR CAPSULA XL II enables extremely high throughput of up to approximately 94 IPs/hr. and the time to display the image on the CR Console monitor is approximately 23 sec., in spite of its compactness.

### All-in-one unit for all diagnostic imaging needs
Three types of IP cassettes (Type CC, LC and CM*) can cover various imaging such as chest, lumbar spine, pantomography (15 x 30 cm), and extremities. Virtually all imaging requirements can be satisfied with the single unit.

### Easy Operations monitored on Screen
Capable of automatically starting the IP reading and image processing when the IP cassette is inserted, the system is designed to complete the IP reading cycle with simple operations. Setting parameters can be changed with the buttons on the monitor screen. The screen can also display the status and the time remaining to complete the IP reading process for user-convenience.

### Image Display and Processing – CR Console
The multi-function console handles all complex procedures of digital X-ray imaging – patient ID, image reviewing, processing and printing, DICOM interface, and more – as well as quality assurance functions all within a single workstation.

### Featuring Image Intelligence™ Technology
FUJIFILM’s unique Image Intelligence™ processing technologies to realize clear and crisp images.

### Mammography applications* (Optional)
HR-VI is improved type IP from HR-V, and has the following additional features.

#### Image Quality Improvement
By Using Fujifilm’s imaging plate technologies, HR-V’s image quality improved compared to HR-V.

#### Compatible with MAMMOASCENT AWS-c
The MAMMOASCENT AWS-c optimizes your mammography examinations with its advanced design and features. Correspondence to Fujifilm Mammography QC Program with 1Shot Phantom.

#### Compatible with Fujifilm Mammography QC Program
Fujifilm Mammography QC Program is a dedicated quality control program applicable to FUJIFILM digital mammography system. This program enables the system to keep a stable image quality for both screening and diagnosis.

### Processing Capacity
94 IPs/hr.

* When a 35 x 35 cm (14" x 14") IP is read at 5 pixels/mm.

** The optional 3D sensor needs to be installed HR-V or HR-VI is necessary.

### Compact with High Efficiency
FCR CAPSULA XL II equipped with the optional capability of 50-micron reading with the HR-V or HR-VI and the IP cassette type CH can visualize finer and more minute structures.

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FUJIFILM’s unique Image Intelligence™ processing technologies to realize clear and crisp images.

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94 IPs/hr.

* When a 35 x 35 cm (14" x 14") IP is read at 5 pixels/mm.

** The optional 3D sensor needs to be installed HR-V or HR-VI is necessary.
**FCR CAPSULA XL II Specifications**

**Standard Components**
- FCR CAPSULA XLII Image Reader Unit (Model: CR-B 35S)
- AC power cord

**Other System Components**
- Optional upgrade kit for 30 minute reading with HR-V or HR-VI, FCR Console CONSOLE ADVANCE™, XRS + Dry Image: DRF000, DC600, TSD500

**Supplies**
- Imaging Plates:
  - HR-V: 10 pixels/mm, 5 pixels/mm
  - HR-VI: 10 pixels/mm, 5 pixels/mm
- IP Cassette:
  - HR-V: 24.4 cm (35), 30 cm (18)
  - HR-VI: 24.4 cm (35), 30 cm (18)

**Time Required for IP Card Load**

<table>
<thead>
<tr>
<th>IP Type</th>
<th>Processing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST-VI</td>
<td>4cm (ST-VI)</td>
</tr>
<tr>
<td>ST-VII</td>
<td>4cm (ST-VII)</td>
</tr>
<tr>
<td>ST-VIII</td>
<td>4cm (ST-VII)</td>
</tr>
</tbody>
</table>

**Processing Capacity**

<table>
<thead>
<tr>
<th>IP Type</th>
<th>Processing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST-VI</td>
<td>Approx. 50 IPs/hr.</td>
</tr>
<tr>
<td>ST-VII</td>
<td>Approx. 61 IPs/hr.</td>
</tr>
<tr>
<td>ST-VIII</td>
<td>Approx. 81 IPs/hr.</td>
</tr>
</tbody>
</table>

**IP Cassette**

<table>
<thead>
<tr>
<th>Index</th>
<th>Volts</th>
<th>Reading Specification</th>
<th>Reading Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120V AC</td>
<td>High-Resolution</td>
<td>Standard Mode</td>
</tr>
<tr>
<td>120V AC</td>
<td>50µ</td>
<td>9 pixels/mm</td>
<td>10 pixels/mm</td>
</tr>
<tr>
<td>120V AC</td>
<td>10µ</td>
<td>10 pixels/mm</td>
<td>12 pixels/mm</td>
</tr>
<tr>
<td>120V AC</td>
<td>50µ</td>
<td>12 pixels/mm</td>
<td>13 pixels/mm</td>
</tr>
<tr>
<td>120V AC</td>
<td>10µ</td>
<td>14 pixels/mm</td>
<td>15 pixels/mm</td>
</tr>
</tbody>
</table>

**IP Cassette**

- HR-V: 24.4 cm (35), 30 cm (18)
- HR-VI: 24.4 cm (35), 30 cm (18)

**Environmental Conditions**
- Operating Conditions:
  - Temperature: 10-40°C
  - Humidity: 40-90% RH

**Power Supply Conditions**
- Voltage: 100-120 V ±10% (50 Hz)
- Frequency: 50 Hz
- Current: 6.3 A

**Specifications**

- 3D imaging: 15-30 cm (ST-VI)
- 3D imaging: 18-35 cm (HR-V)
- 3D imaging: 18-35 cm (HR-VI)

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Unit: mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width: 590 (23)</td>
<td></td>
</tr>
<tr>
<td>Depth: 380 (15)</td>
<td></td>
</tr>
</tbody>
</table>

**Network**

- 10 Base T/100 Base TX

**Weight**

- 39 kg (277 lbs.)

**Other System Components**

- FCR CAPSULA XL II with Imaging Plate HR-V has cleared 510K (Premarket submission) and is tested by Helmholz, German Research Center.
- FCR Solution with Imaging Plate HR-VII has cleared the Mammography and technology is manufactured in Japan.