FUJIFILM DR VELOCITY Ufp SPECIFICATIONS

Standard Components (some items are sold separately):
- FUJIFILM DR VELOCITY Ufp Upright Image Reader (Model: CR-IR366)
- Grid: 12:1, 10:1, 8:1 (density 36 lines/cm, focal distance 140cm or 180cm)

Other System Components:
- CR Console Plus/Lite (sold separately)
- Image Recorder: DRYPIX 2000/4000/7000

Reading Sizes (reference):
- 17" × 17" (43 × 43cm), 14" × 17" (35 × 43cm), 17" × 14" (43 × 35cm),
- 14" × 14" (35 × 35cm), 10" × 12" (25 × 30cm), 12" × 10" (30 × 25cm),
- 8" × 10" (20 × 25cm), 10" × 8" (25 × 20cm), 18" × 43cm.

Processing Capacity (in the high-pixel density two-image output format):
- When connected to DRYPIX 7000/CR Console Plus
- Approx. 240 IPs/hour*
- *When operating environment is 25°C, and maximum x-ray amount for the device IP is 12mR.

Time Interval Required Between Exposures:
- 10 seconds (varies depending on condition)

Time to Display On CR Console:
- 9 seconds

Reading Gray Scale:
- 12 bits

Network:
- 10 Base T/100 Base T

Dimensions (W × D × H):
- Upright Image Reader: 645 × 450 × 1835mm (25" × 18" × 72"
- Control Unit: 260 × 550 × 470mm (10" × 22" × 19"

Weight:
- Upright Image Reader: 220kg (485lbs.)
- Control Unit: 21kg (46lbs.)

Power Supply Conditions:
- Single phase 50/60Hz: AC200/220/230/240V ±10%
- 5.0/4.5/4.3/4.1A

Environmental Conditions:
- Operating Conditions:
  - Temperature: 15(at 40%RH) – 30°C(at 80%RH)
  - Humidity: 40(at 15°C) – 80%RH(at 30°C) [No dew condensation]
  - Atmospheric pressure: 650 – 1060hPa
- Non-operating Conditions:
  - Temperature: 0 – 45°C
  - Humidity: 10 – 90%RH [No dew condensation]
  - Atmospheric pressure: 650 – 1060hPa

Specifications and PC requirements are subject to change without notice.
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All products require the regulatory approval of the importing country.
For details on their availability, contact our local representative.
In radiographic examinations, reducing the exposure dose is an important challenge. The FUJIFILM DR VELOCITY Ufp is a high-resolution upright digital radiography system, which uses a columnar crystal X-ray detector achieving twice the DQE (Detective Quantum Efficiency) of the current FUJIFILM devices thus providing significantly improved image quality.

By a combination of Focused Phosphor Technology applied to the built-in detector and FUJIFILM’s renowned sophisticated digital image software technologies, the Image Intelligence™, the FUJIFILM DR VELOCITY Ufp offers unparalleled image quality in digital radiology.

**Focused Phosphor Technology**

It is essential to increase the X-ray exposure efficiency to improve image quality. To increase the efficiency, the Imaging Plate X-ray absorption has to be improved. To improve the Imaging Plate absorption, the phosphor layer thickness needs to be appropriately increased.

In practice, the Imaging Plate efficiency cannot be improved by merely increasing the phosphor layer thickness for the following reasons:

1. Sufficient stimulation light cannot penetrate deep into the phosphor layer because each of the phosphor particles in the phosphor layer acts as a light scattering medium, and
2. Photo stimulated luminescence (PSL), generated deep inside the phosphor layer and containing X-ray information, cannot be extracted through the IP surface.

The new Focused Phosphor Plate not only increased in thickness but also utilizes a columnar particle structure which acts as a light guide, allowing the stimulation light to reach deep inside the phosphor layer. The PSL generated is then successfully extracted through the Focused Phosphor Plate surface. As a result, the X-ray exposure efficiency is improved.

**User-Friendly Interface**

A convenient verification display can be installed on either side of the detector unit, clearly indicating patient name for quick and easy confirmation to minimized patient-data errors.

**Additional features**

- Enables the imaging of the lower extremities by lowering the detector-unit to a height of up to 47cm from the floor (to the center point).
- Compact design with an entire unit depth of only 45cm.
- Patient hand grips at the top and side of the unit for added safety.

**Uncompromised Image Quality**

The new FUJIFILM DR provides premium image quality through optimized resolution and DQE.
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**Standard Components (some items are sold separately):**
- FUJIFILM DR VELOCITY Ufp Upright Image Reader (Model: CR-IR366)
- Grid: 12:1, 10:1, 8:1 (density 36 lines/cm, focal distance 140cm or 180cm)

**Other System Components:**
- CR Console Plus/Lite (sold separately)
- Image Recorder: DRYPIX 2000/4000/7000
- Control Unit: 2140 (450lbs.)

**Reading Sizes (reference):**
- 17" x 17" (43 x 43cm), 14" x 17" (35 x 43cm), 17" x 14" (43 x 35cm),
- 14" x 10" (35 x 25cm), 10" x 12" (25 x 30cm), 8" x 10" (20 x 25cm),
- 6" x 8" (15 x 20cm), 5" x 5" (13 x 13cm).

**Processing Capacity (in the high-pixel density two-image output format):**
- When connected to DRYPIX 7000/CR Console Plus
- Approx. 240 IPs/hour*
  *When operating environment is 25°C, and maximum x-ray amount for the device IP is 12mR. This figure will vary when temperature and x-ray amount differ.

**Time to Display On CR Console:**
- 9 seconds

**Image Reading**

<table>
<thead>
<tr>
<th>Reading Size</th>
<th>12&quot; x 12&quot;</th>
<th>10&quot; x 8&quot;</th>
<th>10&quot; x 10&quot;</th>
<th>8&quot; x 10&quot;</th>
<th>6&quot; x 8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanning Density (pixels/mm)</td>
<td>4.7</td>
<td>5</td>
<td>6.7</td>
<td>6.7</td>
<td>6.7</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>2010 x 2010</td>
<td>2010 x 1670</td>
<td>2010 x 1760</td>
<td>2010 x 1760</td>
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</tr>
</tbody>
</table>

Images are read at the rate of 12 pixels/mm. Image reading rate and image density listed in the table are applied respectively for each image size when output from the CR Console.

**Dimensions (W x D x H):**
- Upright Image Reader: 645 x 450 x 1835mm (25" x 18" x 72"
- Control Unit: 260 x 550 x 470mm (10" x 22" x 19"

**Weight:**
- Upright Image Reader: 2200 lbs.
- Control Unit: 21kg (46lbs.)

**Power Supply Conditions:**
- Single phase 50/60Hz: AC200/220/230/240V ±10%
- 5.0/4.5/4.3/4.1A

**Environmental Conditions:**
- Operating Conditions:
  - Temperature: 15(at 40%RH) – 30°C(at 80%RH)
  - Humidity: 40(at 15°C) – 80%RH(at 30°C) [No dew condensation]
  - Atmospheric pressure: 650 – 1060 hPa
- Non-operating Conditions:
  - Temperature: 0 – 45°C
  - Humidity: 10 – 90%RH [No dew condensation]
  - Atmospheric pressure: 650 – 1060 hPa

Note: Keep the temperature at 30°C and humidity less than 80%RH if the non-operating period is less than a week and 30°C and less than 60%RH if over a week.

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