A Flexible and High-resolution X-ray System
Processing up to 240 IP/hour at 10-pixel/mm resolution, the Fujifilm DR VELOCITY Unity ensures immediate results for the operator and less waiting for the patient. The productivity gains seen with this unit are more than just impressive. Radiologists do not waste valuable time trying to make the image look acceptable before transmitting them to PACS.

A Speedy and Easy-to-operate X-ray System Performing a Wide Range of Exams.

The Fujifilm DR VELOCITY Unity enables radiographic exams in various positions including supine and upright. The X-ray tube and the detector both on the U-arm can be perfectly aligned, and the detector can be easily tilted for exams of angled parts such as the knee and the skull. The unit has an exceptionally high image processing capability, and is fully motorized ensuring rapid set-up at exam.

**HD LineScan Technology**
For image acquisition, the Fujifilm DR VELOCITY Unity uses a revolutionary HD LineScan technology which employs a wide-view CCD and a built-in Deviced IP. The detector unit is significantly slimmer than previous models yet has an increased throughput, reading images at a high resolution of 100µm.

**Image Intelligence™**
"Image Intelligence™" is a set of sophisticated digital image processing software technologies incorporated in the Fujifilm DR VELOCITY Unity. An optimum image for examination is generated with this Image Intelligence technology.

**Software Technology Examples**
- **FNC** Flexible Noise Control
  FNC selectively suppresses noise components while maintaining signal contrast, improving granularity in "noisy" anatomical regions.
- **MFP** Multiple Frequency Processing
  MFP is optional software that provides greater diagnostic information from a single exposure image through frequency enhancement. MFP improves visibility of both dense and peripheral tissues, simultaneously applying edge-enhancement processing to all structures in an image.

**HIGH IMAGE QUALITY**

**UNPRECEDEDENTED SPEED**

- A 100µm image resolution
- Large image detection area (up to 17" x 17" or 43cm x 43cm)
- Takes approximately 9 seconds for image displaying
- Flexible positioning of patient at X-ray exposure
- Small footprint
- User-friendly graphic menus, easy operability
- Safety design
**FLEXIBILITY**

The Fujifilm DR VELOCITY Unity can perform versatile movements enabling a wide range of radiographic exams with just one unit.

- Motorized angulations of the detector (+45°/-45°)
- Motorized angulations of the tube detection arm (+120°/-30°)
- Source to Image Distance (SID) adjustable between 1000 mm (39”) and 1800 mm (71”) with continuous motorized movement.
- Vertical movement of the U-arm between 500mm (20”) and 1530mm (60”)

**EXAMINATION OF VARIOUS BODY PARTS**

- Skull Exams
- Chest Views
- Extremity Elbow

**EASY TO CONTROL**

Simple and automatic operation

Easy operation using the following:
- Touch buttons located in the X-ray tube cover, around the touch screen display control
- Control panel at the detector side
- Generator console located outside the room
- Infrared remote controller

Easy positioning, better productivity

The following can be set automatically from the touch screen panel by selecting a specific position number from the pre-set position list displayed on the screen: SID, arm angle, detector angle, and height. Also, the exposure condition (kV, mA, ms) can be set automatically by selecting a body part from the body part list displayed on the CR Console. These auto-setting functions greatly alleviate the workload of radiologists.

**PATIENT SAFETY**

- The system’s dual-speed motorized movement when a button or control is pressed and the intelligent anti-collision mechanism which uses two sensor laser beams ensure patient safety, and quick and easy patient positioning.

**USER-FRIENDLY INTERFACE**

- A convenient verification screen clearly indicates the patient name for quick and easy confirmation, minimizing patient data errors. A suitable grid size can be selected from this screen to match the type of exam.
FUJIFILM DR VELOCITY Unity SPECIFICATIONS

Image Detector (Model: CR-IR 371 RU)
- Image size: 43 x 43 cm (17 x 17 inch)
- Pixels: 4280 x 4280
- Pixel size: 100 microns
- Spatial frequency (Nyquist): 5.0 cm/mm
- Bit Depth: 12 bit
- Preview image: Approx. 9 seconds

Universal Arm Stand (Model: VERSO F)
- Vertical height: max. 1530 mm or more
- Rotation of arm: +120° to -30° degree
- Tilting of detector: +/- 45° degree
- SID: 1000 – 1800 mm
*The absolute angle of detector is limited from 0 to ±110 degree by software.

Generator (Model: SHF515 / SHF535 / SHF635 / SHF835)
- Output: 50kW (SHF515, SHF535)/64kW (SHF635)/80kW (SHF835) (SHF835 available in some countries)
- Range of output: 40 to 150kVp in 1kVp steps.
- Maximum current: 640mA (SHF515, SHF535, SHF635)/800mA (SHF835)
- Console (Model: TPC 12") 12 inch Monitor and Touch screen display

X-Ray Tube (Model: E7252X / E7669X)
- Range of voltage: 40 – 150kV
- Focal spot: 1.2 mm (Large focus)/0.6 mm (Small focus)
- Anode heat storage capacity: 300 kHU (E7252X)/600 kHU (E7669X)

Collimator (Model: 150PBL Collimator)
- Automatic collimator

Image & Information Processor (Model: CR-IR 348CL): Option
- Spatial frequency processing
- Gradation processing
- Dynamic Range compression processing
- Multi-frequency processing (option)
- Flexible noise control processing (option)
- Grid pattern removal processing (option)

Dimensions* (W x D x H)
- Universal arm stand**: 2300 x 1465 x 2650 mm (91" x 58" x 104")
- Arm controller: 592 x 422 x 600 mm (23" x 17" x 24")
- Generator: 592 x 422 x 690 mm (23" x 17" x 27")
*This is approx. value. **Detector is included

Weight*
- Universal arm stand**: 500 kg (1102 lbs.)
- Arm controller: 65 kg (143 lbs.)
- Generator: 110 kg (243 lbs.)
*This is approx. value. **Detector is included

Power Supply Requirement
- Detector: 200 – 240V±10%, 1.2. 2.5A, 50/60Hz (Single phase)
- Universal arm stand: 230/240V±10%, 50/60Hz (Single phase)
- Generator: 230/240V, 50/60Hz (Single phase) for output 50kW
  400V, 50/60Hz (3-phase) for output 50kW
  400V, 50/60Hz (3-phase) for output 50kW
  480V, 50/60Hz (3-phase) for output 80kW

Environment Condition
- Temperature: 15 – 30 degree
- Humidity: 40 – 75% RH
- Atmospheric pressure: 750 – 1060 hPa

Optional Accessories
- Mobile table: Carbon fiber table (Patient Capacity: 200 kg)
- Grid: 10:1 or 8:1, 36 lines/cm, FID 100/140/180 cm
- Ion chamber (Model: ICX-127) 3 field
- Infrared remote controller
- Ceiling support
- Cassette holder
- Long view cassette holder
- QC phantom holder

Specifications are subject to change without notice.
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For details on their availability, contact our local representative.

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Dimensions

Unit mm (in.):

[Diagram of dimensions]