

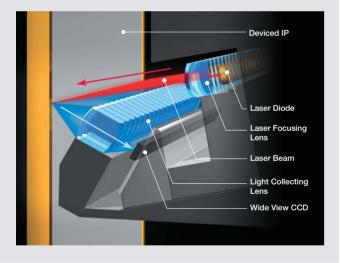
# A Speedy and Easy-to-operate X-ray System Performing a Wide Range of Exams.

The Fuiifilm 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.

## HIGH IMAGE QUALITY

### **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**

### FIC 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.

## UNPRECEDENTED SPEED

Processing up to 240 IP/hour at 10-pixel/mm resolution, the Fuiifilm 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 throughput. Since images are processed using FUJIFILM's refined image processing tools, they are in the optimum state for diagnosis when they are displayed. Radiologists do not waste valuable time trying to make the image look acceptable before transmitting them to PACS.

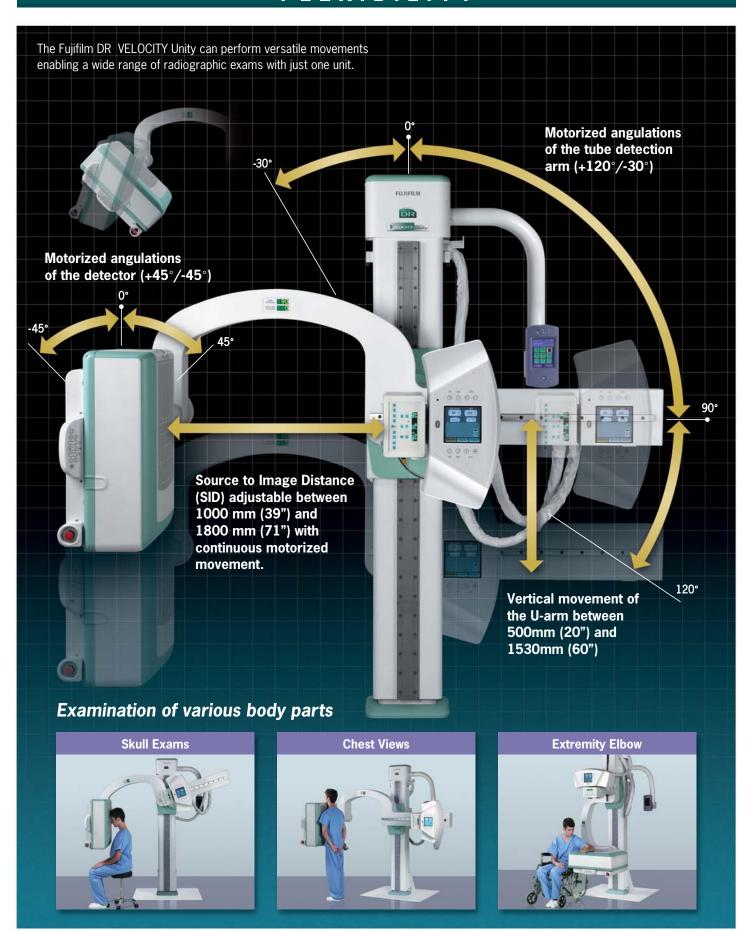






• A 100µm image resolution • Large image detection area (up to 17"×17" or 43cm × 43cm) • Takes approximately 9 seconds for image displaying • Flexible positioning of patient at X-ray exposure • Small footprint • User-friendly graphic menus, easy operability • Safety design

## FLEXIBILITY

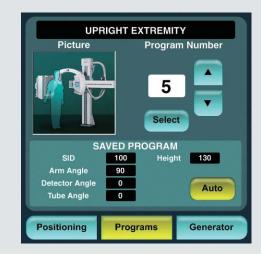


## EASY TO CONTROL

### 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 

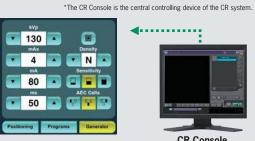
### Easy positioning, better productivity



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.



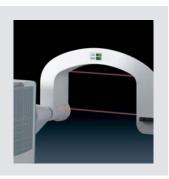




### PATIENT SAFETY

### **USER-FRIENDLY INTERFACE**

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.



A convenient verification screen clearly indicates the patient name for quick and easy confirmation, minimizing patientdata 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 × 4280 Pixel size 100 microns • Spatial frequency (Nyquist) 5.0 cv/mm • Bit Depth 12 bit Approx. 9 seconds Preview image

#### Universal Arm Stand (Model: VERSO F)

 Vertical height max, 1530 mm or more min. 500 mm Rotation of arm +120/-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 / E7869X)

 Range of voltage 40 - 150kV

 Focal spot 1.2 mm (Large focus)/0.6 mm (Small focus) 300 kHU (E7252X)/600 kHU (E7869X) · Anode heat storage capacity

#### 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\*\* 2320 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.) 65 kg (143 lbs.) Arm controller 110 kg (243 lbs.) Generator

\*This is approx. value. \*\* Detector is included

#### **Power Supply Requirement**

 Detector  $200 - 240V \pm 10\%$ , 2.1 2.5A, 50/60Hz (Single phase) · Universal arm stand

230/240V±10%, 50/60Hz (Single phase) 230/240V, 50/60Hz (Single phase) for output 50kW Generator

400V, 50/60Hz (3-phase) for output 50kW 400V, 50/60Hz (3-phase) for output 64kW 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

Grid

Carbon fiber table (Patient Capacity: 200 kg) 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

**Dimensions** Unit mm (in.): (51) (65) 1290 1000~1800 (39~71) 1520~2320 (60~91) 310±25 (12±1) 104) 2650

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