• Increased Throughput
• Space Saving Design
• Safety Features
• High Definition Digital Imaging
• Fully Integrated Design Handles all Regions

Integrated Digital R/F System
FLUOROSPEED 300
YSF-300 / DAR-8000i


Remarks:
- Specifications in this catalogue are subject to change without notice.
- Certain configurations may not be available pending regulatory clearance.
- Contact local Shimadzu representative for information on specific configurations.
- Prior to placing an order, you should first thoroughly review the Instruction Manual.
A Fully Integrated Digital R/F System
Expanding the Clinical Boundaries.

**FLUOROSPEED 300**
YSF-300/DAR-8000i

With more than 130 years of dedication to achieving excellence, Shimadzu proudly offers the latest Digital Imaging system, the FluoroSpeed 300 Digital R/F System. Shimadzu has challenged the clinical boundaries of the new millennium by offering a unique, technically advanced and totally integrated Imaging system.

The FluoroSpeed 300 Digital R/F System is designed for high performance Digital R/F and Bucky radiography. By combining the latest DR system with the YSF-300 R/F table, the system’s capability is expanded to perform Digital examinations from GI to Angiographic studies of the highest image quality.

The Digital Imaging technology provides excellent time and cost efficiency and effectively reduces X-ray dose to both patient and operator.

Shimadzu’s extensive R&D expertise has made this FluoroSpeed 300 integrated Digital R/F System reliable and flexible, meeting your clinical needs today and expanding the potential for tomorrow.

- Increased Throughput
- Space Saving Design
- Safety Features
- High Definition Digital Imaging
- Fully Integrated Design Handles all Regions
The Imaging Control Unit has been designed with ease of use and maximum throughput in mind. The Imaging Control Unit features many automated functions to increase the accuracy and speed of patient positioning and therefore decrease the examination time.

**Functionally Designed Imaging Control Unit**
A wide variety of functions are provided on the Imaging Control Unit.

- Tableside APR selection
- Fluoro timer reset
- Pulsed Fluoro control

**Left or Right Hand Control**
The control handle is designed to allow the operator to manipulate the Imaging Control Unit with either the left or right hand.

**All Way Power Assist**
The “all way” servo-motor assisted travel of the Imaging Control Unit aids quick positioning during the examination.

**DR System control at tableside**
A control panel to operate the DR System is incorporated into the Imaging Control Unit on the table. Various operations such as patient file selection and width & level adjustment of acquired DR images can be easily and quickly executed at the tableside.

**Excellent operability for image selecting & printing**
Digital images can be easily replayed at the tableside in the examination room. These can be displayed on the high resolution monitor as a single or multiple (4 or 16) image display. The operator can select images and print (to a laser imager) from the control panel on the Imaging Control Unit in the examination room if desired.

**Increased FOV**
By removing the Spot Film Device the Image Intensifier faceplate can be mounted 75mm closer to the patient. This contributes to improved image quality, reduced X-ray dose and expansion of the available FOV for Fluoroscopy and Digital acquisition.

**Increased Throughput**

**Space Saving Design**
Utilizing the latest in system engineering and technology, the compact design of the FluoroSpeed 300 reduces both installation space and cost.

**Safety Features**
Several safety devices are incorporated into the FluoroSpeed 300, including patient safety rails and hand grips. A special Fluoro interlock switch is designed to prevent accidental activation of exposures.

**All Components incorporated into the Table**
The FluoroSpeed 300 incorporates all the system components in the compact table assembly, providing a clean, uncluttered working environment.

**Flat Fibre Tabletop**
A new carbon fibre tabletop is introduced to further aid patient safety. This low attenuation tabletop reduces radiation exposure to the patient and operator.

**Variable Speed Table Tilt with Soft Start / Stop**
Safe and accurate patient positioning is achieved with a variable speed motor drive with soft start/stop function. The table is also designed to automatically stop in the horizontal position.

**For Bariatric Imaging**
The table’s heavy-duty design supports a patient load of up to 227kg (500 lb) in the horizontal and center position. This is the best in its class.

**Increased FOV**
By removing the Spot Film Device the Image Intensifier faceplate can be mounted 75mm closer to the patient. This contributes to improved image quality, reduced X-ray dose and expansion of the available FOV for Fluoroscopy and Digital acquisition.
Shimadzu’s advanced Digital Imaging technology provides flexibility for many clinical applications. By incorporating the latest DR system with the YSF-300 RF table, the systems capability is expanded to perform Digital examinations from GI, non-Vascular IVR and Angiographic studies of the highest quality.

High-Definition 1 Megapixel CCD Camera
A high-performance one million pixel CCD camera, developed from Shimadzu’s extensive experience with X-ray systems, provides fully digital 1024x1024 matrix fluoroscopic and radioscopic images. Furthermore, even the slightest differences in contrast are expressed faithfully via 12-bit (4096 levels of gray) density resolution. This allows the accurate rendering of detailed gastric area conditions and fine net patterns.

High-Speed Consecutive Radiography
For Perfect Radiography Timing
Consecutive, high-definition 1024x1024 high-speed digital imaging is possible at up to 15 frames per second. This means even hard-to-time regions, such as videofluoroscopic examinations of swallowing, can be observed accurately via high-definition images, with little ghosting or blurring.

Large Capacity
Digital Image Storage
Accumulated digital images are recorded in real-time to an internal large-capacity high-speed hard disk. Images can also be saved externally to DVD-R/CD-R media, allowing storage of up to 2000(DVD-R) DICOM format frames on a single disk.

DSA Capability
The multi system can perform high quality Real-time DSA at frame rates up to 7.5fps. With its unique applications software and Real-time DSA functions, the system supports highly advanced vascular imaging as well as Digital R/P procedures.

Motion Tolerant RSM-DSA
Shimadzu’s proprietary Real-Time Smoothed Mask Digital Subtraction Angiography (RSM-DSA) is a revolutionary new DSA application that eliminates the need for acquiring mask images.

Pulsed Fluoroscopy
Pulsed Fluoro Control switches are incorporated into the Imaging Control Unit. The available pulse rate, including 3.75, 7.5, 15 & 30frames per sec, can be easily controlled at the tableside. Pulsed fluoroscopy can achieve X-ray dose reduction of up to 87.5% compared to a standard (non-Digital) system.

Simple Windows®-based Operability
This new digital radiography unit is designed around the highly reliable Windows operating system, which makes the rapid processing of high-definition images possible using simple operations. The graphical user interface and mouse provide an intuitive operation environment that is easy to learn and to use.

X-ray dose
Pulsed Fluoroscopy
Realization dose is reduced by up to 87.5%
(compared to a standard system)
In combination with the CH-200 ceiling-type X-ray tube support, the FluoroSpeed300 performs all types of simple radiography. Both units are linked, providing easy positioning and setting of radiography conditions.

Fast Setting of Radiography Conditions Via CH-200 Ceiling-Type X-Ray Tube Support

Two-way communication between the CH-200 ceiling-type X-ray tube support and the X-ray high-voltage generator allows you to set radiography conditions from the support or from the generator. Carrying out examination preparation while attending to the patient allows a wide variety of examination techniques to be quickly implemented.

Digital Radiography Option*

A compact portable flat panel detector with a large 17" x 14" imaging area can be retrofitted to provide a complete digital solution.

Tabletop Movement Linked With CH-200 Exposure Field

Use the joystick on the CH-200 ceiling-type X-ray tube support's operation panel to electrically perform tabletop lateral and longitudinal positioning. The tabletop's high-precision linkage with the X-ray unit's exposure position allows you to smoothly perform examinations.

DR Upgrade : Canon CXDI-50G portable digital radiography system.

Note) Canon FPD may be not available in some countries. Please contact our local sales representative.
Integrated Imaging Control Unit

The Integrated Imaging Control Unit of the FluoroSpeed 300 is designed to provide high quality digital image with an easy and simple operation. The advanced functions incorporated into the system enhance the speed and accuracy of patient examinations.

DR System Control Panel
- Print selection switch
- Selects DR image to print. When multiple images are displayed, this selects the image in the box cursor.
- Multi-display switch
- Changes the format of the images displayed.
- (Single display and multi-formatted [4x4] display.)
- Width/Level switch
- Changes the functions of the shuttle switches A/B.
- Serial mode switch
- Selects "Serial imaging" mode.
- Print start switch
- Starts to execute film printing of the selected images.
- Store image switch
- Stores the last fluoroscopic image held on the monitor.
- Image inversion switch (up and down)
- Reverses the next fluoroscopic and radiographic images vertically.
- Image inversion switch (left and right)
- Reverses the next fluoroscopic and radiographic images horizontally.
- Control shuttle A/B
- When the indicator of the Width/Level switch is OFF:
  - SHUTTLE A: Changes the image frame.
  - SHUTTLE B: Changes the image file.
- Multiple images display:
  - SHUTTLE A: Moves the box cursor on the monitor.
  - SHUTTLE B: Displays the series of 16 images (prev. - next)
- When the indicator of the Width/Level switch is ON:
  - SHUTTLE A: Changes the contrast of the image
  - SHUTTLE B: Changes the brightness of the image

R/F Function & APR Control Panel
- Pulsed Fluoro rate indicator
- APR selection indicator
- Density indicator
- Selected X-ray tube indicator
- Pulsed Fluoro mode switch
- APR selection switch
- Density selection switch
- I.I. field size selection switch
- Fluoro timer reset switch
- Fluoro preparation switch
- Pulsed Fluoro rate control switch
- Grid IN / OUT switch
- Imaging Control Unit longitudinal / lateral travel lock switch
- Compression Travel lock switch
- Bucky center lock switch
- Compression cone IN / OUT switch
- Backup timer reset switch
- The backup timer reset switch can reset the back-up timer.
- The indicator of this switch blinks when the back-up time is exceeded.
- Dose select switch
- The dose level select switch can select a standard or low dose.
- Mode "Dose N" is a standard dose mode for adults.
- Mode "Dose L" is a low dose mode for pediatrics.
- Fluoroscopy Indicator
- Dose Indicator
- Exposure Indicator