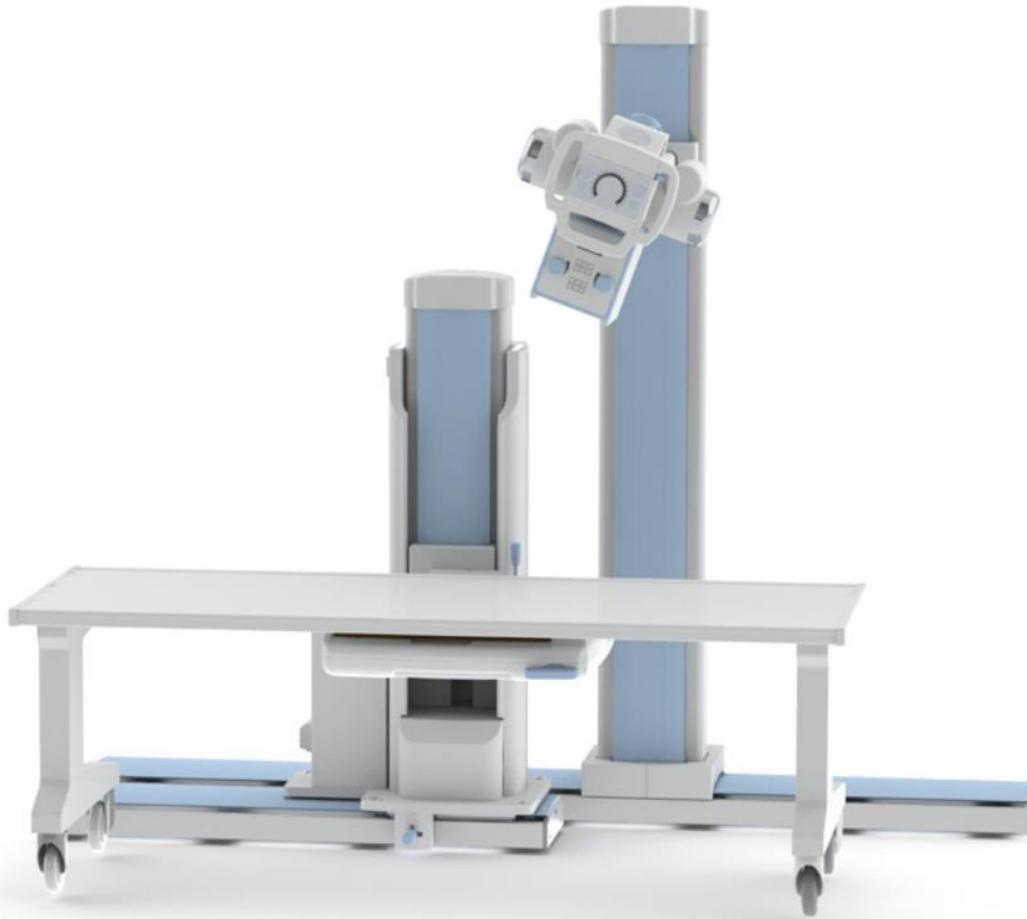


# PAYAMED

## Technical Specification



## Digital Radiography X-Ray System **DRX-FL (Single Detector)**

TS-005 Rev0

## DRX-FL (Single Detector)

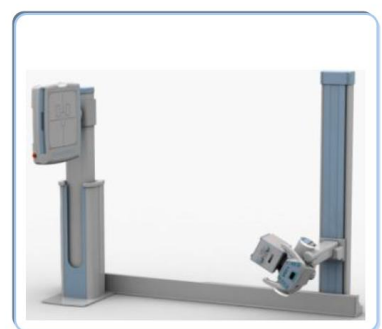
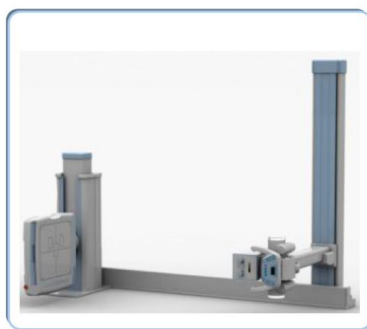
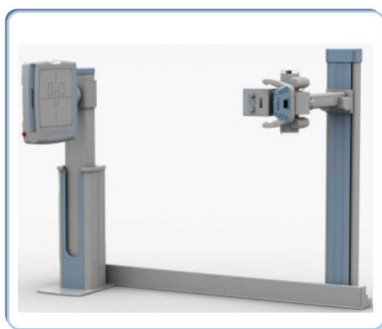
The Floor mounted digital radiographic system DRX-FL is a compact system with a mobile table, tilting bucky stand and a single detector. It allows, with an absolute mobility and friendly-use, the obtaining of X-rays from any part of the body in any position of the patient, with vertical, horizontal and angled projections.

The system has been designed focusing on flexibility and friendly use, and it can also be configured depending on your exact clinical requirements. Including: chest, spine, abdominal, urological studies.

The total integrated system combines modern technology of the X-ray generator of high frequency with the Flat panel technology for Direct Digital Acquisition, all made to give the system a friendly use for the operator and easy positioning of the patient.

### CONFIGURATION:

- Floor Mounted Tube Stand Radiographic System
- Mobile Patient Table
- Tilting Bucky stand
- Manual Collimator with laser beam
- HT Cables
- X-ray Generator, 150 kVp, Digital interface
- X-ray Tube, 150 kVp, Dual Focus
- Single Fixed Flat Panel Detector
- Workstation Software



## DRX-FL (Single Detector)

### **Floor mounted tube stand**

The Floor Mounted Tube Stand (FMTS) is the ideal choice for a complete range of routine radiographic procedures, while keeping an eye on your budget by eliminating costly structural modifications.

This Floor Mounted Tube Stand is very unique to use in small space since it requires much smaller space to install or operate than existing systems.

- X-ray tube Vertical Travel : 125 cm
- X-ray tube Longitudinal travel : 185 cm
- X-ray tube Rotation: +/-135 °

### **Mobile Patient Table**

The ergonomic design makes it friendly-use for both the patient and operator. It has been also built strong and solid.

- Table Dimension: 1970 x 728 x 700mm (77.5 in. x 28.7 in. x 27.5 in.)
- Individual Locking Casters
- High impact resistance strong table base

### **Wall bucky stand**

- Vertical Motorized Movement
- Manual rotation of detector bucky
- vertical travel: 140 cm
- Rotation of bucky detector: 0 – 90 °



### **Manual COLLIMATOR WITH LASER**

- Manual collimator with 6 pair of leaves
- Accessory rails (cones, filters, etc).
- Can be regulated manually
- Field light lamp, light of the lamp 160 lux.
- Light indicator for alignment with detector
- Lamp timing
- Retractable measuring tape

### **HIGH TENSION CABLES**

- Two 20m Ultra Flexible High Tension Cables 75 Kvp.

### **High Frequency X-Ray Generator 50KW, 150 KV Anatomical Program Microprocessor Controlled**

The high frequency x-ray generator technologies controlled by microprocessor improve the image quality and reduce the patient dose. The very low ripple and accuracy radiographic parameter KVp, mA and exposure time reduce the soft x-ray radiation and improve the homogeneity of the x-ray beam.

The high frequency x-ray generator controlled by microprocessor improve also the reliability of the whole system and reduce the maintenance cost, thanks to the constant monitoring of the system, with auto diagnostic and error code.

- High Frequency X-Ray, 1 Tube Operation
- Three phase 380/480VAC
- X ray tube overload protection.
- Hand switch for preparation and exposure control.
- Light and sound indication for X-ray exposure.
- KVp Radiographic range, from 40 to 150 KVp in 1 KVp step
- Exposure time range, from 0,001 to 10 second
- Digital Interface: ON/OFF Box, serial communication interface between the generator and computer

### **X-Ray Tube**

- Maximum Tension, 150 KVp.
- Dual Focus
- Target angle: 12° or 16°

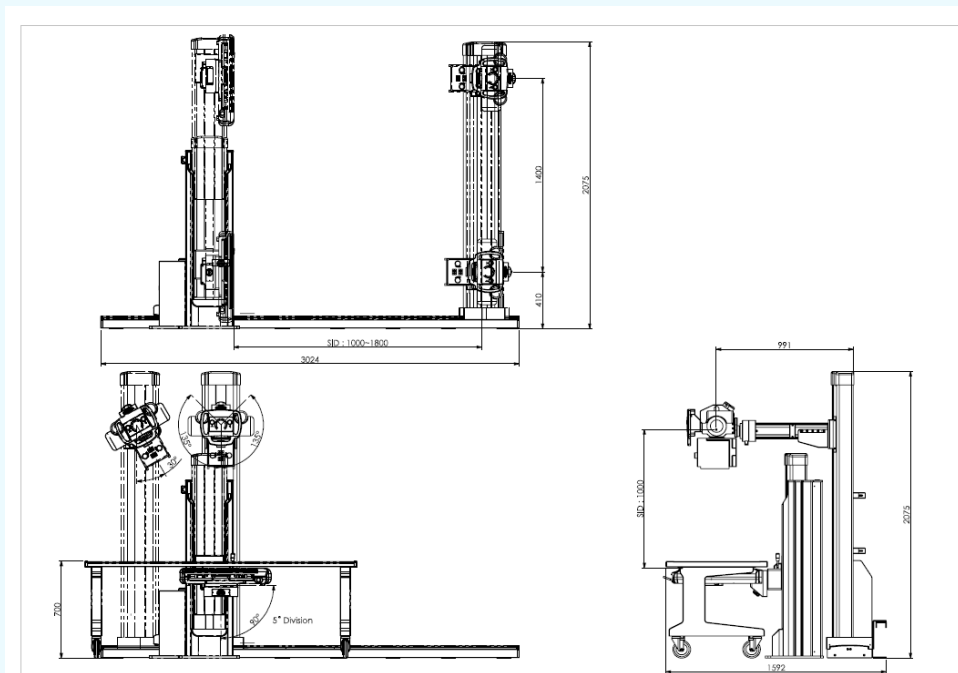
# DRX-FL (Single Detector)

## FLAT PANEL DETECTOR

- Purpose: General Radiography
- Detector type: Flat panel Detector - amorphous Silicon
- Detector Dimension: 43 X 43 mm
- High DQE and MTF
- Pixel Pitch: max. 148 um
- A/D Convert: 16 bits
- Generator voltage: 40-150 Kvp

## Workstation Software

- User friendly environment for operator
- High quality and low noise images
- Advanced image processing algorithms
- Grayscale adjustment, inversion, Edge enhancement
- User defined windowing , masking
- Linear windowing, Sigmoid function windowing
- Automatic LUT
- Annotation with comments, Standard labels, User defined labels
- Image zooming and panning, Image flipping , Mirror, rotation, crop, trimming
- DICOM 3.0 Compatible



# PAYAMED

## Technical Specification



Digital Radiography X-Ray System  
**DRX-FL (Dual Detectors)**

## DRX-FL (Dual Detectors)

The Floor mounted digital radiographic system is a system with a floating table top and two flat panel detectors. It allows, with an absolute mobility and friendly-use, the obtaining of x-rays from any part of the body in any position of the patient, with vertical, horizontal and angled projections.

The system has been designed focusing on flexibility and friendly use, and it can also be configured depending on your exact clinical requirements. Including: chest, spine, complete skeletal, abdominal, urological studies.

The total system combines modern technology of the X-ray generator of high frequency with the Flat panel technology for Direct Digital Acquisition, all made to give the system a friendly use for the operator and easy positioning of the patient.

It is a heavy-duty X-Ray System characterized by its simple and functional design, with its new light weight design, it guarantees highly precise positioning for an optimal radiographic result.

### **CONFIGURATION:**

- Floor mounted tube stand
- 4 Ways floating table top
- Wall Bucky Stand
- Manual Collimator with laser beam
- High Tension Cables
- X-ray Generator, 150 kVp, Digital Interface
- High Speed Starter for one X-ray tube
- X-ray Tube, 150 kVp, Dual Focus
- Two Fixed FLAT Panel Detectors
- Workstation Software

### **FLOOR MOUNTED TUBE STAND**

Its compact and clever design delivers high-performance with enough linear and rotational movements which fully meet the demands on quality and versatility. Balancing System with counterweights and Electromagnetic brakes are also available in this system.

### **Four Ways, floating table top**

- Patient weight capacity: 200 Kg
- Longitudinal travel: 90 cm
- Transversal travel: 21 cm
- Grid 10:1, Focalized at 1 m Carbon Fibre Cover

### **Wall bucky stand**

- Grid, 10:1, Focalized at 1.5 m Carbon Fibre Cover
- vertical travel: 150 cm
- Minimum high from floor: 40 cm
- Maximum high from floor: 190 cm

### **X-Ray Tube**

- Maximum Tension, 150 KVp.
- Dual Focus

### **Manual COLLIMATOR WITH LASER**

- Manual collimator with 6 pair of leaves
- Accessory rails (cones, filters, etc).
- Can be regulated manually
- Field light lamp, light of the lamp 160 lux.
- Light indicator for alignment with detector
- Lamp timing
- Retractable measuring tape



### **Three Phase High Frequency X-Ray Generator 50KW/150 KV Anatomical Program Microprocessor Controlled**

The high frequency x-ray generator technologies controlled by microprocessor improve the image quality and reduce the patient dose. The very low ripple and accuracy radiographic parameter KVp, mA and exposure time reduce the soft x-ray radiation and improve the homogeneity of the x-ray beam.

The high frequency x-ray generator controlled by microprocessor improve also the reliability of the whole system and reduce the maintenance cost, thanks to the constant monitoring of the system, with auto diagnostic and error code.

#### **GENERATOR FEATURES**

- High Frequency X-Ray, 1 Tube Operation
- Three phase 380/480VAC
- Output power: 50 Kw
- Automatic line compensation: +/-10%
- Microprocessor controlled with auto diagnostic and error code indication for easy maintenance.
- X ray tube overload protection.
- X-Ray tube H.U indication and continuous monitoring for x-ray tube protection.
- Control of X-ray Tube Number of Exposures
- Hand switch for preparation and exposure control.
- Light and sound indication for X-ray exposure.
- KVp Radiographic range, from 40 to 150 KVp in 1 KVp step
- Exposure time range, from 0,001 to 10 second
- Digital Interface: ON/OFF Box, serial communication interface between the generator and computer

#### **FLAT PANEL DETECTOR**

- Purpose: General Radiography
- Detector type: Flat panel Detector - amorphous Silicon
- Detecting Area: 43 X 43 mm
- Pixel Pitch: max. 148 um
- A/D Convert: 16 bits
- Generator voltage: 40-150 Kvp
- Operation Environment: < 10 to 40°C, 20 to 75% RH (noncondensing)

### Workstation Software

- User friendly environment for operator
- High quality and low noise images
- Advanced image processing algorithms
- Grayscale adjustment, inversion
- Edge enhancement
- User defined windowing , masking
- Linear windowing
- Sigmoid function windowing
- image processing for soft and bone tissue
- Automatic LUT
- Stitching (Option)
- Annotation with comments
- Standard labels, User defined labels
- Multi image visualization
- Image zooming and panning
- Image flipping , Mirror, rotation, crop , trimming
- DICOM 3.0
- Dicom 3.0 Compatible
- Supporting CD/DVD burning