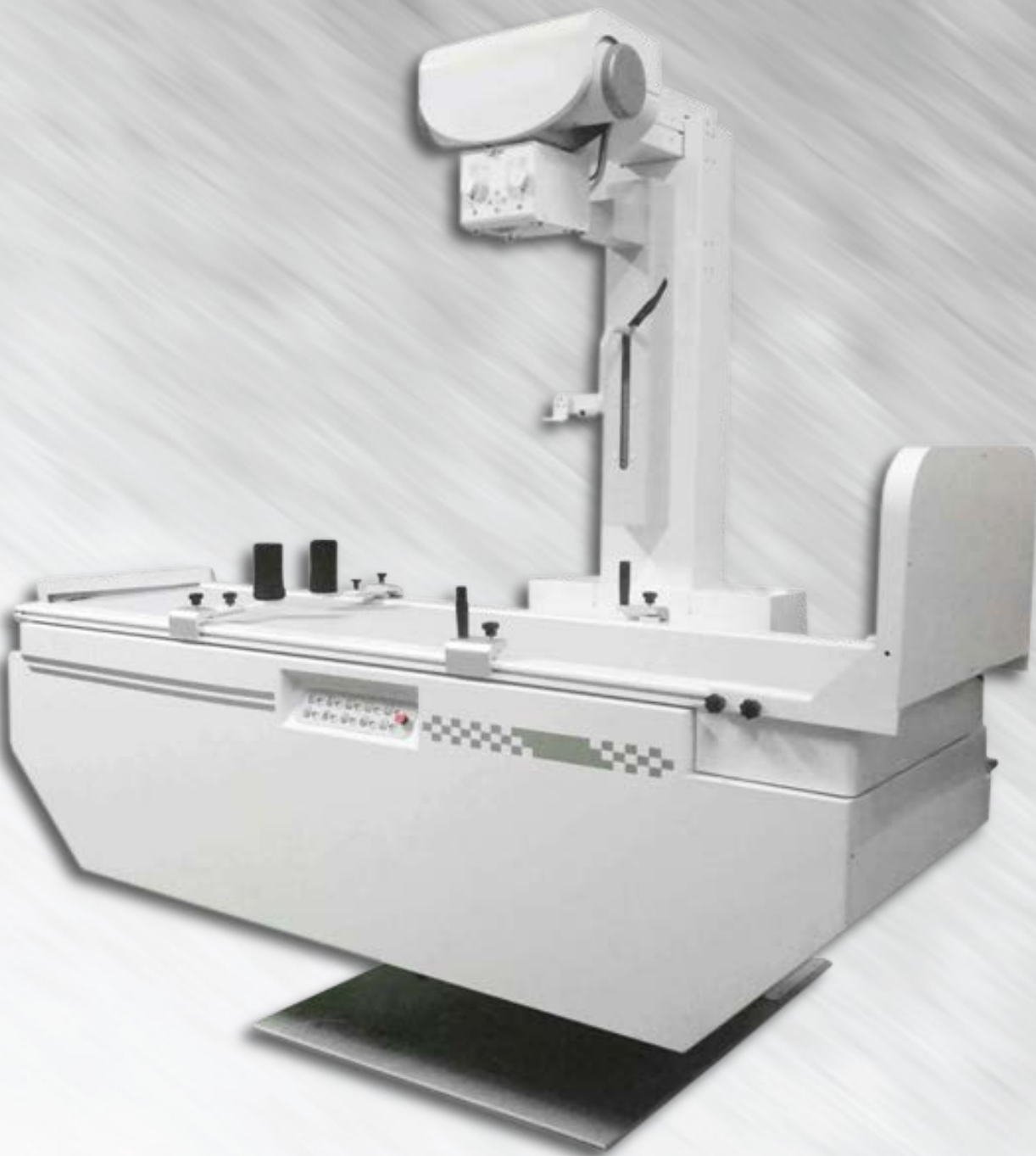




BRT-40

ADRF- Multifunctional Dynamic
Digital Radiography System



IMAGING SYSTEMS



BRT-40

ADRF- Multifunctional Dynamic Digital Radiography System

Introduction

- ADRF- uses the patient table it's wide-range movements and auto DR operations reduce the patient movements and make the operation easier and faster. With various functions such as fluoroscopy, imaging and radiography, this system will satisfy all kinds of clinical applications.
- Fluoroscopy: This system uses a Dynamic Flat Panel detector and advanced computer image processing technology, bringing real-time image spot film storage and playback functions. Such as chest X-ray, gastrointestinal and gullet Barium fluoroscopy.
- Angiography: Angiography of respiratory system, digestive tract, urinary system, biliary tract, lower limb vein, gynecologic and interventional examination (option) .
- Radiography: Retractable tube arm, max SID is 1800mm. It could provide omnibearing digital radiography of various body parts without blind area.

Features

Table height in vertical position 2200mm
 Vertical mount height 1930mm
 Width 2100mm
 Maximum height with table in horizontal position and focus to film at 180 cm 2750mm
 Depth (distance between mounting base and tabletop side) 820mm
 Access from forth side (back) 400mm
 Column displacement 1200mm
 DFP holder displacement 1200mm
 RX covering area 430mm*2100mm
 Distance from tabletop to receptor 100mm
 Weight distribution plate (to be anchored on the floor) 1100*900*15mm-250kg

Tabletop dimension 2100×880×10mm
 Tabletop type Carbon Fiber maximum weight 200kg
 Tabletop lateral excursion movement 240mm
 Longitudinal excursion 1200mm
 Tube angulations range for oblique projections +45 to -45°
 Tabletop tilting range (90/-40?) +90°~0°~ -15
 X-ray tube assembly rotation range -180 to +180°
 SID 1000mm to 1800mm

ACCESSORIES

Standard
 Shoulder rest;
 Pair of ergonomic handlers;
 Optional
 Removable footrest with surface 400x600 mm;
 Paper roll bearer LDC glass bearer Compression band OB-GYN legs bearer
 Additional pedal(in examination room)for RAD/Fluoro

DYNAMIC CHARACTERISTICS

Tabletop rise time from lower to max height (horizontal position) 20 sec
 Tabletop combined rotation from 0°to+90° 25 sec
 Tabletop combined rotation from 0°to- 90° 25 sec
 Tabletop combined rotation from-90"to+90° 45 sec
 Tabletop lateral displacement From4 cm/sec to 8 cm/sec
 Lined translation(tube+ receptor) along the horizontal axis 10 sec
 Rotation only from 0° to +90° 20 sec
 Focus to film extension from 105 to 180 cm 16sec

Features

- High-performance and high-capacity with bifocals and high speed, which is suitable for long-time diagnosis.
- High inverting frequency and high voltage generator ensures output of constant DC.
- A-Si Dynamic Flat Panel detector could bring digital radiography and fluoroscopy of various positions directly.
- High quality image intensifier with ultralow illumination digital camera (CCD) brings high quality, low noise and rich contrast images. It also avoids edge attenuation and image tailing, which makes accurate diagnosis during dynamic examination.
- High density grid further improves X-ray quality and provides images with good effect

TECHNICAL FEATURES

X-ray Generator	
Output power	50KW / 80 KW
Frequency	High frequency with inverter technology
Current (fluoroscopy)	0.5~6,5mA / 0.5~12mA
Voltage (fluoroscopy)	40kV~110kV / 40kV~125V
Current (radiography)	32mA ~ 630mA / 32mA ~ 1000mA
Voltage (radiography)	40kV ~ 150kV
Exposure time	0.01s ~ 6.3s
mAs	0.32mAs ~ 630mAs

X-ray Tube	
Anode type	Rotating Anode
Target angle	12°
Focal Spot value	0.6mm / 1.2mm
Working voltage	40kV ~ 150kV
Anode heat content	150kHU / 250 KHU
X-ray tube assembly heat content	1250kHU / 1566 KHU

X-ray Dynamic Flat Panel	
Type	Amorphous Silicon
Scintillator	Cesium Iodide
Active Area	17x17Inch (43cm x 43cm)
Active Pixel	3072x3072
Pixel Pitch	139um
A/D Conversion	16bits
DQE	≥72%
Spatial Resolution	36Lp/cm
Data acquisition time	2s ~ 4s
Detector pixel area	42,70 (h)x42,70cm (v) Total
Pixel Matrix	Total. 3,072(h)x3,072(v) Effective: 3,032(h)x3,032(v)

Configuration

Operational modality

Continuous Fluoroscopy	25 fps 43x43 cm (1K x 1K)
Pulsed fluoroscopy	15 fps 43x43 cm (1K x 1K)
Radiography	4 fps 43x43 cm (1K x 1K)

Collimator

Type	Manual and multiyear collimator (Electric Optional)
Power	150W; 24VAC
Lamp timer	Automatic illumination with timer for lamp (30S)
Filtration	1.2mmAL

Mobile patient table

Type	Table for gastrointestinal imaging
I.I. longitudinal movement	840mm
Tabletop lateral movement	240mm
Rotating range	-40° ~ 0° ~ +90°

Workstation

CPU	Intel 2.8GHz
Memory	2GB
HDD	500GB
n.1 Monitor as standard	24"LCD
n.2 Monitors (OPTIONAL)	24"LCD
DICOM3.0	Query for integration with any PACS
Functions	Import/export function
	Image info
	Management of patient info
	Post processing
	Measurement etc.

Optional

Electric motorized Collimator
Normal Angiography + DSA (Digital Subtraction Angiography)
Dosimeter