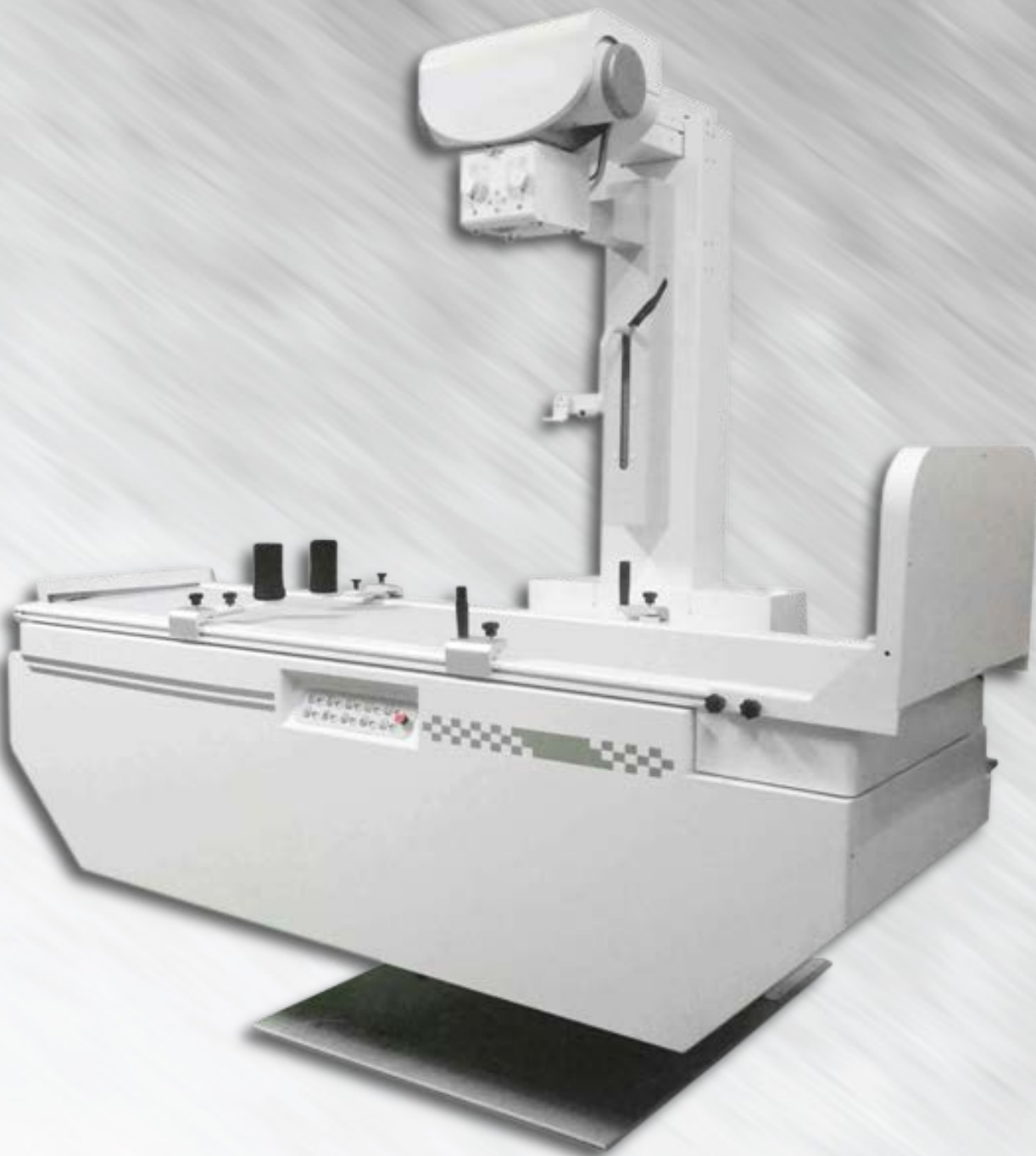




# BRT-40

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 includes Thales image intensifier, CCD camera 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, gynecological 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

- 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 flat panel detector could bring digital radiography 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	<b>50KW / 80 KW</b>
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 detector (Flat Panel Detector)

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

### Image intensifier

Brand	Thales
Nominal entrance field size	9" (230mm) as standard configuration 12" (305mm) OPTIONAL
Field number	3 field (9"/ 6"/ 4.5")
Maximum resolution	70Lp/cm
DQE	65%
High contrast ratio	25:1
Output image size	20 ±0.5mm

### CCD camera

Active pixels	1024 × 1024 pixels
Power	DC12v

### Collimator

Type	Electric and multiyear collimator
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.