



BRT-40 PLUS

ADRF- Multifunctional Dynamic
Digital Radiography System



IMAGING SYSTEMS



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Introduction

BRT-40 PLUS Multi-functional R/F System is a flexible and compact system with various functions such as radiography, fluoroscopy, stomach examination, gastrointestinal tract examination, etc. Its wide-range movements and auto DR operations reduce the patient movements and make the operation easier and faster.

Fluoroscopy: This system includes latest dynamic 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.

Radiography: Retractable tube arm, max SID is 1800mm. It could provide digital radiography of various body parts without blind area.

Features

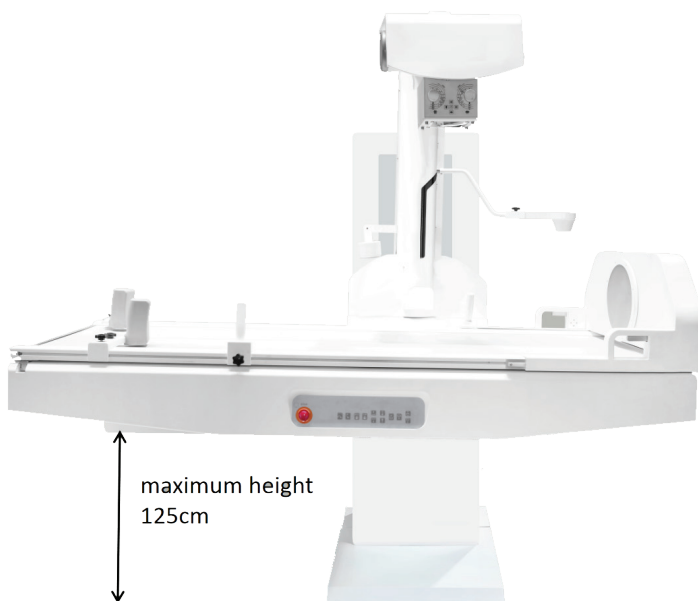
High-performance and high-capacity with big focus and high speed, which is suitable for long-time diagnosis.

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.

The 17×17 inch image sensor has direct deposition CsI, which provides excellent low-dose imaging at frame rates up to 30 fps.

High density grid further improves X-ray quality and provides images with good effect.



TECHNICAL FEATURES

X-ray Generator	
Output power	50KW
Frequency	$\geq 50\text{kHz}$ High frequency with inverter technology
Current (fluoroscopy)	0.5~6.0mA
Voltage (fluoroscopy)	40kV~125kV
Current (radiography)	32mA~630mA
Voltage (radiography)	40kV~150kV
Exposure time	0.01s~5s
mAs	0.32mAs~630mAs

X-ray Tube	
Anode type	Rotating Anode
Power of focal spot	20KW/50KW
Focal Spot value	0.6mm /1.2mm
Maximum voltage	150kV
Anode heat content	163kJ (230 kHU)
X-ray tube assembly heat content	900kJ (1250 kHU)
Anode speed	2800rpm
Inherent filtration	1.0mmAl
Maximum anode heat dissipation	750w (1056HU/s)

X-ray Dynamic Flat Panel	
Type	Amorphous Silicon
Scintillator	Cesium Iodide
Active area	17x17Inch(43cm*43cm)
Active pixel	3328*3328
Pixel pitch	139um
AD conversion	16 bits
Limiting resolution	36Lp/cm
Data acquisition time	$\leq 2\text{s}$

Ambient condition	
Ambient temperature	10°C~40°C
Relative humidity	30%~75%
Atmospheric	70~106kPa

Mobile patient table	
Type	Table for gastrointestinal imaging
Tabletop lateral movement	240mm ± 5%
Rotating range	-30° ~ 0° ~ +90°

Collimator	
Type	Electric and multi-leaf collimator
Power	150W; 24VAC 1
Lamp timer	Automatic illumination with timer for lamp(30S)
Filtration	1.2mmAL

Mechanical movement	
SID	1000mm ~ 1800mm
longitudinal movement of detector	840mm ± 5%
Table top up and down	900mm ± 5%

Workstation	
CPU	Intel i5
Memory	8GB
HDD	500GB
Monitor	24" LCD
DICOM3.0	Query for integration with any PACS
Functions	Import/export function
	Image info
	Management of patient info
	Post processing
	Measurement etc.

