



BRT-40F

Digital Radiography and
Fluoroscopy System



IMAGING SYSTEMS



BRT-40F

Introduction

BRT-40F is equipped with a remote controlled table, which is the ideal solution for hospitals seeking a system that offers the most flexibility for a wide range of applications. This digital x-ray system is a digital radiography and fluoroscopic system that saves you time, meets your clinical needs and provides excellent quality diagnostic images. It is designed to provide maximum flexibility for all types of exam rooms and for all types of exams.

The images are automatically post-processed and ready to be transmitted to the network destinations of your choice (or printed) using industry-standard DICOM protocols. From the clean, sleek lines of the design, to the simplified all-in one control console, to the mechanical ergonomics and elegance, the BRT-40F is the remote controlled table solution like you've never seen before.

Features

- High frequency generator with high X-ray inverse frequency, large power and good X-ray quality.
- Intelligence high voltage control system with various APR.
- Reduce patient dose. New generation flat panel detector with high conversion rate achieves digital image acquisition with low dose.
- The detector has an acquisition rate of up to 30 frames per second ensuring that it is suitable for the most demanding fluoroscopic applications.
- With a SID range from 110 to 150 cm, the Platinum enables a large panel of examinations, offering optimal precision for lung exams and best image quality.
- High standard digital image processing system provides more post-processing and meets clinical needs.

X-ray Generator

Output power	80KW
Frequency	$\geq 30\text{KHZ}$
Current	32~1000mA
Voltage	40~150KV
mAs	1~1000mAs
Exposure time	8ms~10000ms
AEC function	Equipped
APR program	Equipped
Intelligent protection system	It has self -protection system. It will give an alarm and check fault code.

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Ambient conditions

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

X-ray Tube

Anode type	Rotating Anode
Focal Spot value	0.6mm / 1.2mm
Power of focal spot	33kW / 78kW
Maximum voltage	150KV
Revolving speed of anode	8400rpm
Inherent filtration	1.0mmAl
Anode heat storage capacity	220kJ (300kHU)
Maximum cooling rate of anode	750W(1056HU/S)
Housing heat storage capacity	900kJ (1250 kHU)

X-ray detector (Flat Panel Detector)

Type	Amorphous Silicon
Scintillator	Cesium Iodide
Active Area	17x17 Inch (43cm*43cm)
Active Pixel	3072*3072
Pixel Pitch	139um
A/D Conversion	16bits
DQE	≥ 70%
Spatial Resolution	36Lp/cm
Acquisition time	≤ 2S
Fps	5/20/30

Collimator

Type	Manual Collimator
Max. Window	440mm × 440mm (SID=100cm)
Lamp	AC/DC24V、5W
Lamp timer	Automatic illumination with timer for lamp(30S)
Inherent filtration	1.0mmAl
Illuminant	LED



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Grid

Densities	40L/CM
Ratios	10:1
Focal distance	130cm

Examination table

Type	Motorized table
Height	650mm
Tabletop size	2200mm × 800mm
load-bearing	300KG
Tilting range	-40° to 90°
SID	1100mm to 1500mm
Detector movement	≥1000mm
Lateral movement	±120mm

Workstation

Monitor	24" LCD
CPU	≥2.0GHz
Memory	≥2GB
HDD	≥500GB
DICOM3.0	Query for integration with any PACS
Functions	Import/export function
	Image info
	Management of patient info
	Post processing
	Measurement etc.



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