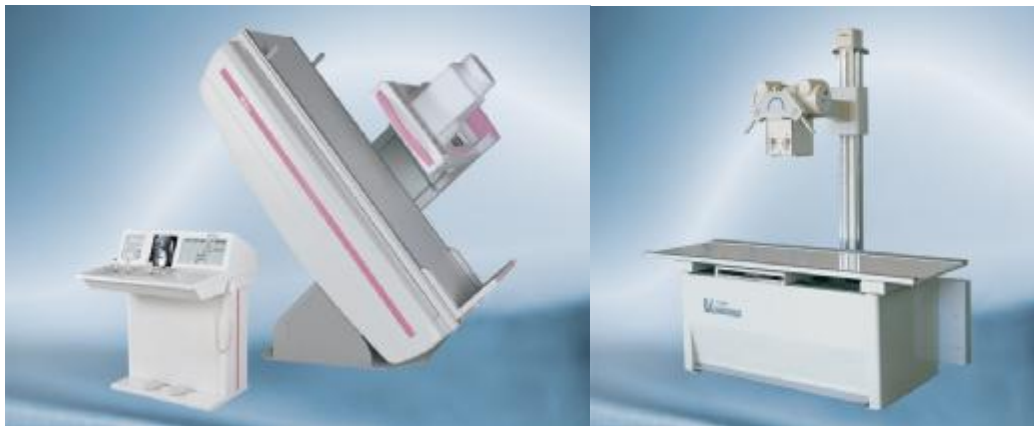


500mA Remote Controlled Diagnostic X-ray System

- F52-8C



SYSTEM CONFIGURATION:

- I High Voltage Generator: FS302-1A
- I X-ray Tube Assembly: XD51-20.40/125
- I X-ray Tube Assembly: XD52-30.50/125
- I Diagnostic Table: ZC15XY-1
- I Radiographic Table: SC4-4
- I Imaging System: 9" I.I., 400,000 pixels CCD
- I Collimator: XS2-1, XS1-2
- I Monitor: 14" 1set

High Voltage Generator FS302-1A

FS302-1A Generator is designed to be used in X-ray diagnosis. It is capable of implementing multiple functions in both radiography and fluoroscopy. With this versatile unit, Wandong can produce custom-built X-ray systems to meet different users' need.

FS302-1A GENERATOR CONFIGURATION:

1. Control Console FSK302-1A

- I The FSK302-1A can be used for conventional fluoroscopy, auto-fluoroscopy, spot film, conventional radiography, program radiography and bucky radiography when it is used with diagnostic table ZC15XY. In addition, FSK302-1A can also be equipped with a radiographic table for conducting standing radiography and laminography.**

2. High Voltage Transformer FSB302-1A

- I FSB302-1A transformer is responsible for supplying X-ray tube assembly with a stable high DC voltage.**

FS302-1A Generator Technical Specification:

FS302-1A Technical Specification	
Radiography kV Range	44 to 125kV total 41 steps
Radiography mA Range	30 to 500mA total 8 steps
Exposure Time	0.02 to 5s total 23 steps
Fluoroscopy kV Range	44 to 110kV
Fluoroscopy mA Range	0.5 to 5mA continuous regulation
TOMO	Tomographic capability
Anatomical Programing	Yes
Power Supply	380VAC±38VAC, 3-phase
Power Frequency	50/60Hz±1Hz
Power Capacity	50kVA
Power Internal Resistance	≤0.3 Ω
Protective Grounding Resistance	≤4 Ω

X-ray Tube Assembly Specification:

X-ray Tubes Assembly : XD51-20.40/125, XD52-30.50/125		
	XD51-20.40/125	XD52-30.50/125
Rated Voltage	125kV	125kV
Rated Focal Spot Value	1.0/2.0mm	1.0/2.0mm
Max Power (0.1s) (kW)	20(small)/ 40(big)	30(small)/ 50(big)
Rotate Speed (min1/rpm)	2800 (50Hz)	2800 (50Hz)
Optical anode Angle	17.5°	17.5°
Anode Heat Storage Capacity	140,000HU	190,000HU
Heat Storage of Tube Assembly	1,250,000HU	1,250,000HU
Max Continuous Power	410(W)	490(W)
Inherent filtration (mmAl)	0.8~1.2	0.8~1.2
Weight (without additional components)	18kg	23.5kg

Diagnostic Table ZC15XY-1







ZC15XY-1 Diagnostic Table is suitable for medium-sized or above hospitals as well as health organizations in virtue of its features such as low height of the tabletop, its simple structure, its handy operation and a wide range of applications.

This diagnostic table is designed mainly for conducting following radiographic functions:

- I General Radiography**
- I Spot film Radiography**

ZC15XY-1 Diagnostic Table:

ZC15XY-1 Diagnostic Table Specification

Film Size and Exposure Procedure	8" X 10"	
	10" X 12"	
	11" X 14"	
	14" X 14"	
Send Film Method	Film feed driven by motor; Automatic skipping	
Range of Movement	$\geq 720\text{mm}$ (longitudinally)	
	$\geq 200\text{mm}$ (transversely)	
	$\geq 260\text{mm}$ for pressure direction, Press power: 80~100N	
Pattern of Movement	Driven electrically	
Filtering Grid	Fixed type; grid ratio: r=8; grid density: N=40L/cm	
	Focal distance: 70cm; Size: 14" X 14"	
Distance from Focus to Film	585mm~885mm	
ROTATION OF TABLE BODY		
Range of Movement	$+90^\circ \sim 0^\circ \sim -15^\circ$	
Pattern of Movement	Driven electrically, at a speed of about 90°/30s	
MOVEMENT OF TABLETOP		
Range of Movement	Able to be extended 30cm at the front end	
Pattern of Movement	Driven electrically, at a speed of about 3cm/s	

Radiographic Table SC4-4



SC4-4 radiographic table, together with X-ray Tube Assembly, High Voltage transformer assembly and console, this table can be used to perform conventional radiography, bucky radiography and oblique radiography. It can also be used together with vertical radiographic stand for chest filming.

SC4-4 Radiographic Table:

SC4-4 Radiographic Table Specification	
Tabletop Length	2000mm
Tabletop Width	740mm
Tabletop Height	658mm
Tabletop Movement (Longitudinal)	1200mm
Tabletop Movement (lateral)	200mm
Strut Movement Along Table (Longitudinal)	1200mm
DIS Travel while X-ray Tube Assembly Vertically Moving up and down	1100mm
Rotation Range of X-ray Tube Around Lateral Arm	+120° ~ -120°
Strut Rotation Range	+180° ~ -180°
Tabletop Locking	electromagnetically locking, brake pressure \geq 100N
Tabletop Locking Control	footswitch (normally closed)
Bucky Vibration Mode	Fixed type
BUCKY SPECIFICATION	
Focus	fo=100
Grid Ratio	r=10
Grid Density	N=40
Grid Size	14" X 17" (356mm X 432mm)
Film Loaded in Bucky	Max 14" X 17"
Distance between Tabletop and Bucky Film	\leq 60mm
Longitudinal Travel of Bucky	500mm
Bucky Locking	electromagnetically locking, brake pressure \geq 100N
Input Power	220V, 50Hz

Image System

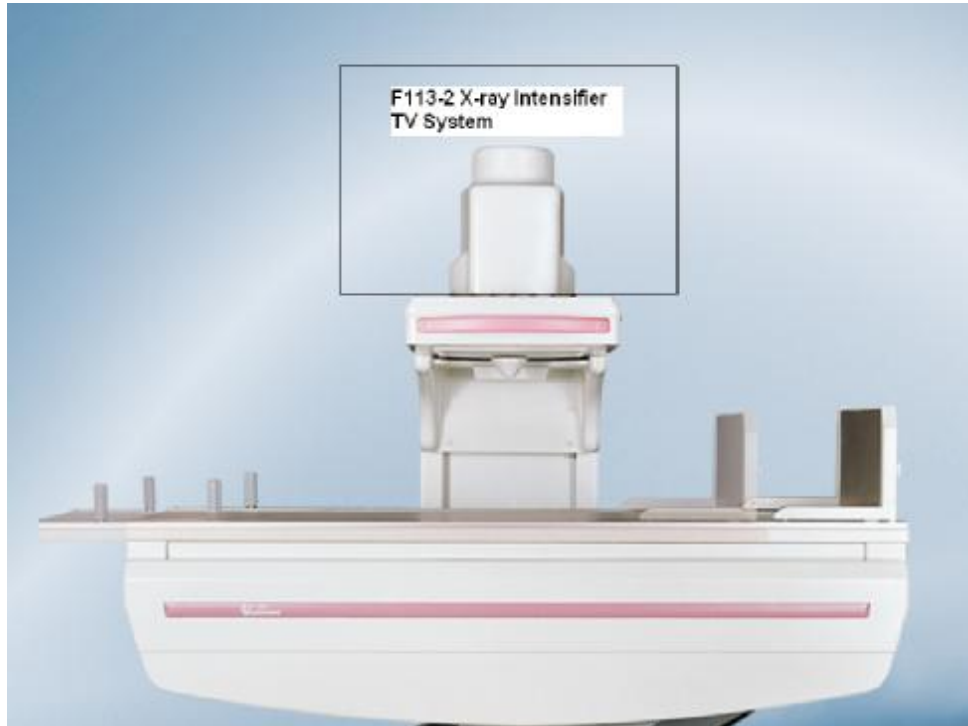


Image system self-adaptive X-ray imaging intensifier television system (hereinafter abbreviated as TV system) is exclusively designed for fluoroscopy real time monitoring. The TV system can be installed conveniently on an X-ray examination table. It offers several significant advantages including high definition, high sensitivity, low inertia, high signal-to-noise ratio and storage capacity for up to 8 images. High quality X-ray images for each part of human body can be obtained using this system.

Image System

Image System Specification	
Power Supply	AC 220V ± 22V, 50Hz ± 1Hz
Working Mode	Continuous
Scanning Ratio	2.1 Interlaced
Number of Scanning Line	625TCL
Number of Frame per Second	25
Vertical Frequency	50Hz
Horizontal Frequency	15625Hz
Aspect Ratio	4:3
CCD Camera	400,000 pixels CCD
Resolution	Horizontal Center ≥ 800 TVL; Vertical Center ≥ 400 TVL
Video Bandwidth	≥ 10MHz
Signal-to-Noise Ratio	48dB
Gray Scale	≥ 10
Output Impedance	75 ohms
Image Intensifier	
Model	Thales
Input size	9 inch (9"/6"/4.5")
Resolution	46 lp/cm
DQE	65%
Image Processing Function	
	Last image hold
	8 images storage
	Dynamic function
	Static function
	Digital mask circle
	Automatic KV control
	14inch monitor 1set

Collimator: XS2-1 & XS1-2

XS2-1 and XS1-2 are multi-page and adjustable collimators for X-ray radiation field. A rectangular radiation field with a desired size can be produced by adjusting the collimator within a specified range. XS2-1 complies with the Chinese national rule for protecting stray radiation. It is easy to install and to operate. Therefore, this unit can effectively reduce the damage to human bodies caused by X-ray leakage.

Collimators Specification:

Collimators Specification		
	XS1-2	XS2-1
Mode of Adjustment	Manuel	Electrically-Driven
Maximum Tube Voltage	150kV	150kV
Radiation Field [Max SID = 65cm]	350mm X 350mm	350mm X 350mm
Radiation Field [Min SID = 100cm]	0	≤50mm X 50mm
Time Limit of the Light Source	≤60s	N/A
Inherent Filtration	1.5 (mmAl)	N/A
External Dimension (length X Width X Height)	250x224x250mm	212x212x223mm
Weight	9 kg	6.1 kg