PLD6800 High Frequency (Digital) X-ray System

Application:

The unit is available for medical teaching, research, medical units for gastrointestinal X-ray spot film photography, remote control compartment, fluoroscopy and other Traumatic Radiography etc of X-ray routine examination, Can be used for gastrointestinal imaging, cholangiography, Urinary tract imaging and Deep vein imaging and other imagings ; Can used for fluoroscopy of esophagus, breast, gastrointestine, Abdomen and limbs and spot film photography; Can do the operation of Fracture reduction and Taking foreign body from in vivo .

Features :

1. Diagnostic table

·1）Visual display of man-machine interface, touch screen control, makes man-machine conversation more intuitive, convenient and easy to understand.

·2）Programmable controller technology, high control precision, good stability, excellent anti-jamming performance

·3）Inverter control technology, When the table move, it can soft start, soft stop, smooth no noise, more accurate positioning

·4）Reliable, high precision of angular displacement sensor technology, low dynamic noise, and long mechanical life.

·5）High-resolution of rotary encoders, high accuracy of auto-slice, security and stability.

·6）Rotation range of 90 ° ~ 0 ° ~ -25 °, can take routine examination of digestive organs , can also be used for a variety of special examination

·7）Humanized Design of diagnostic table lateral switch , near station positioning make the operation more convenient.

·8）Toshiba's high-quality image intensifier, to further enhance image sharpness, contrast, more easily, to clearly identify Lesions.

·9）Move a wide range of spot film device, apply the operation fo People do not move with the operation of motor way easily to complete taking from the throat, esophagus,To the lower abdomen of a series of examinations .

·10）Spot film box open on their own, safe and reliable operation.

2. Generator

•1）With X-ray Radiography and perspective function of generator, maximum output power of 65 kW.

•2）Output voltage of 150 kV.

•3）With a smaller, lighter, modular design.

•4）In the exposure process, kV and mA can be adjusted to achieve a constant radiation output.

•5）Large-screen LCD flat panel used to display the APR conventional conditions and practical projects.

•6）User-friendly system configuration.

•7）Operator can modify the APR technology items.

•8）Provide APR /-ray tube data downloads.

•9）A variety of automated diagnostic procedures, and operators with prompts

.•10）With serial RS232 communication interface

•11）Operation can be individually programmed for the APR, and APR and manual techniques for programming options

•12）Programmable settings, calibration, and conduct regular APR (by connecting an external computer).

•13）For ABS (Automatic Brightness Stabilization) circuit select four kinds of kV and mA curve.

Specifications:

Item		Content	Technical parameter
Power supply		Voltage	380V±38V
		Frequency	50Hz±1Hz
		Capacity	≥85kVA
		internal resistor	≤0.13Ω
Digital X-ray high voltage system (import high-frequency		Power Output	65KW
		Inverter Frequency	200kHz
	photography	Tube Voltage	40kv—150kv step regulation
		Tube Current	10mA—800mA step regulation

generator)		Exposure time	1.0s—6300ms step regulation
		Control interface	Touched LCD
	fluoroscopy	Tube Voltage	40kv—125kv step:2kv continuous regulation
		Tube Current	0.5mA—6mA continuous regulation
		Automatic brightness for fluoroscopy IBS	Automatic brightness tracking，multiple settings beforehand
Digital Controlled X-ray Tube（Toshiba, Japanese）		Model	E7252
		Tube Focus ： Large Focus/Small Focus	1.2mm /0.6mm
		Input Power	Large focus:75kW small focus: 27kW
		thermal capacity	210KJ
		Rotary anode speed	2700rpm
Micro-computer control digital tube remote diagnostic table		Material of the tabletop	high strength、low absorb carbon fiber
		Rotation of the table	90°~0°~-25°
		Transverse travel of table	±110mm
		Longitudinal travel of the photography holder and film spot device	≥720mm
		X-ray Focus—film gauge	1100 mm—1500 mm
		Rotating foot plate	±360° rotation
		Full film photography size	8″×10″—14″×17″
		Dividing method for spot film	Full film, half dividing, three parts dividing, four parts dividing
		Control method for diagnostic table	Remote、table control、frequency conversion soft starting and stopping
		beam limiter	Electric Multi-leaf
		Voice interaction	Two-way microphone system
		fixed bucky device for table	Grid density: 103L/INCH, Grid ratio: 10:1,focusing distance: 120cm，fixed type: 15″×18″
Digital Image TV System		Image Intensifier	TOSHIBA integrated image intensifier with 400,000 pixels CCD camera (non-digital) / TOSHIBA 9" image intensifier and 1 mega pixels CCD camera (digital)

	Monitor	17″ medical high definition monitor, horizontal central resolution ratio :1000 lines，fringe: 800 lines，video bandwidth: 12.5MHz，50bit，image number/second: 25 frame
	Digital Picture Processing System （CCU Sentinel）	High definition line by line output mode, 8 level noise reduction，store 8 image；LIH（freeze the last frame），the image can be turned vertically and horizontally，positive and negative image； OSD （monitor show）