

BPLDT570 Technical Specifications

Dynamic Detector	Detector Technology	Full-Frame CCD
	Effective View Field	17" x 17"
	Static Pixel Matrix	3072 x 3072
	Dynamic Pixel Matrix	1024 X 1024
	Spot-Film Pixel Matrix	3072 X 3072
	Spot-Film Preparation Time	0.7 s
	Output Grayscale	14 bit
	Preview Image Time	2 s
X-Ray Tube (Toshiba E7252X)	Maximum Spatial Resolution	3.57 lp/mm
	Tube Focus	0.6 mm/1.2mm
	Max Output Voltage	150 kV
	Heat Capacity	300 kHU
50KW Generator	Power Requirement	380 V with 3 Phases Wires
	Maximum Output Power	50 kW
	Output Voltage for Radiography	40 kV-150 kV
	Output Voltage for Fluoroscopy	40 kV-120 kV
	Output Current for Radiography	10 mA-630 mA
	Output Current for Fluoroscopy	0.5 mA-20 mA
	Range of mAs	0.4 mAs-630 mAs
	Auto Brightness Selection Function (ABS)	
Remote Control Table	Positioning for Chest-Exam / Table-Exam by Electric Control	
	Bed Size	2100 mm x 880 mm x 865 mm
	Bed Lateral Movement	240 mm
	SID	300-1800 mm
	Bed Rotate Range	-15°-90°
	Tube Column Rotate Range	-45°-45°
Grid	High Voltage Cables of X-ray Machine	Length: 8 m
	Grid Density	40 lp/cm
	Grid Ratio	10:01
	Focus	100 cm
Collimator	Auto-close time	30 s
	Brightness	≥160lux(100 cm)
Workstation	CPU	Dual-Core 3.0G
	RAM	2 GB
	Communication Network Card	1000 m
	Hard Disk	500 GB
	Display	1920*1200 Display
Software	CD/DVD recording/burning	
	Imaging Part Indicator, Tissue Equalization, Filter Correction, Grayscale Transform, Window/Level Adjustment, Gamma Correction, ROI Equalization	
	Black/White Reversion, Image Segmentation, Mark, Enhancement, Smoothing Sharpening,	
	Compression, Magnification, Graphic Text Report, Printing	
	Film Printing, Supports Standard DICOM 3.0 Laser Film Printer	
	DICOM 3.0 Format, Compatible to Transfer to PACS	

Service is Powered by:



Service Helpline  
1800-425-2355

CERTIFIED ISO 13485:2003, ISO 9001:2008 COMPANY

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BPLDT570

BPL Medical Technologies

The Multi-Purpose  
Digital Radiography & Fluoroscopy System



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# BPL DT570 offers you the advantages of both Digital Radiography & Fluoroscopy in one system

## DYNAMIC DR:

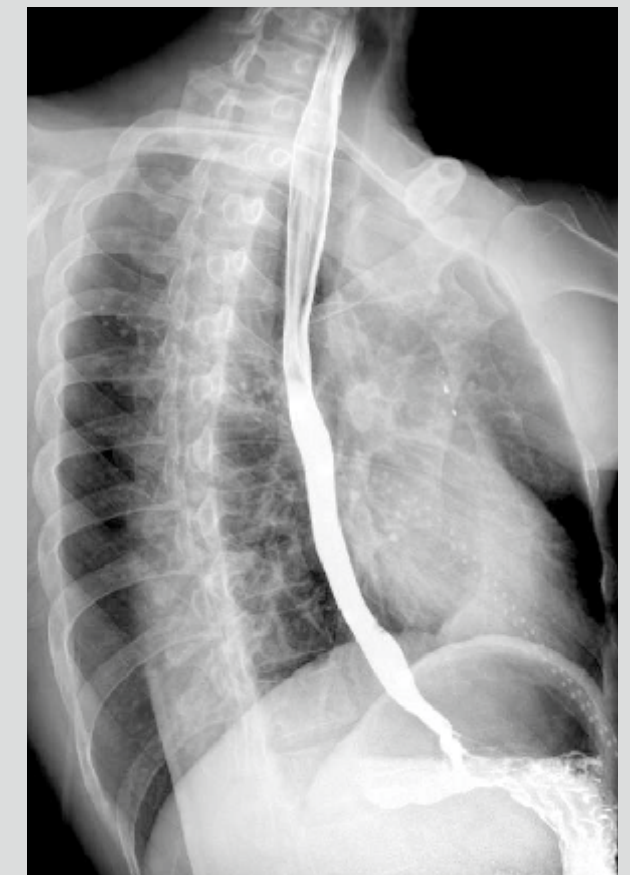
### With Remote Control Table

BPL DT570 with remote control table is a unique dynamic digital X-ray system. It is multi functional with digital radiography, digital fluoroscopy and digital contrast capabilities. It represents a new trend in the development of **Digital X-ray imaging technology**.

## Large View Area

### Large view field 43cm x 43cm for wide range of Fluoroscopy examinations

A full sized view area with HD image can enable doctors to be more focused on lesion observation and reduce radiation time for patients. While conventional fluoroscopy system with an image intensifier shows just round, smaller and skewed, BPL DT570 with full size dynamic detector makes X-ray image reading much easier and more convenient for both junior and senior doctors. It is not affected by geometric distortion which is typical of image intensifiers.



### Avoids misdiagnosis and missed diagnosis

Static DR sometimes has the problem of misdiagnosis due to overlaid images or improper positions. BPL DT570 can provide multiple view angles with dynamic preview images, which helps to find out hidden lesions or correct the improper position in the low dose preview mode, together with spot film function to make a more precise diagnosis. The real-time replay and video recording function can also act as a powerful tool for lesion proof-check

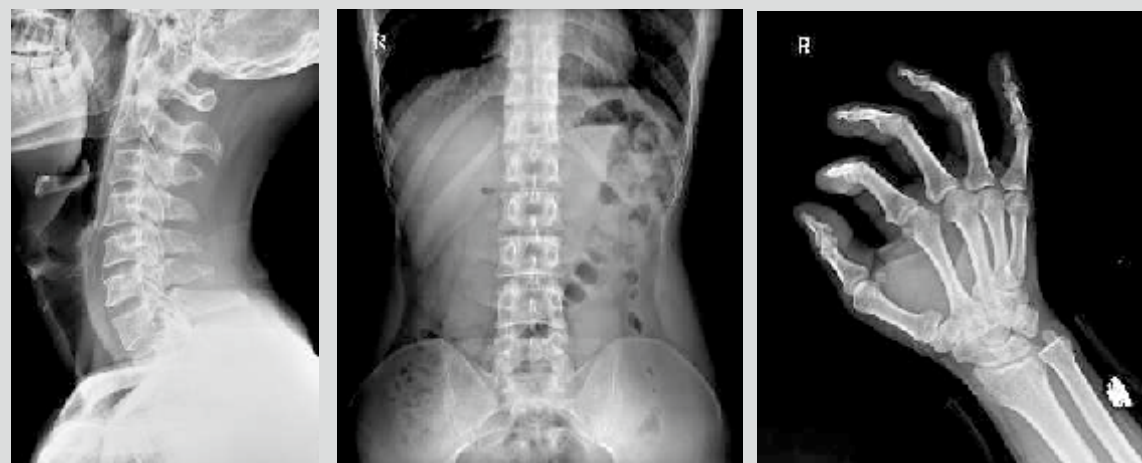


# Multipurpose Digital Imaging Solutions

## Great versatility of Radio & Fluoro Applications

### Digital Radiography

A fast and precise full digital x-ray examination of most parts of the body. Wide range of checking angels, as well as erect, lying, and oblique positions. Static imaging for radiographic examinations, Skull, Thorax, Abdomen, Vertebral Column, Pelvis, Upper and Lower Extremities and so on.

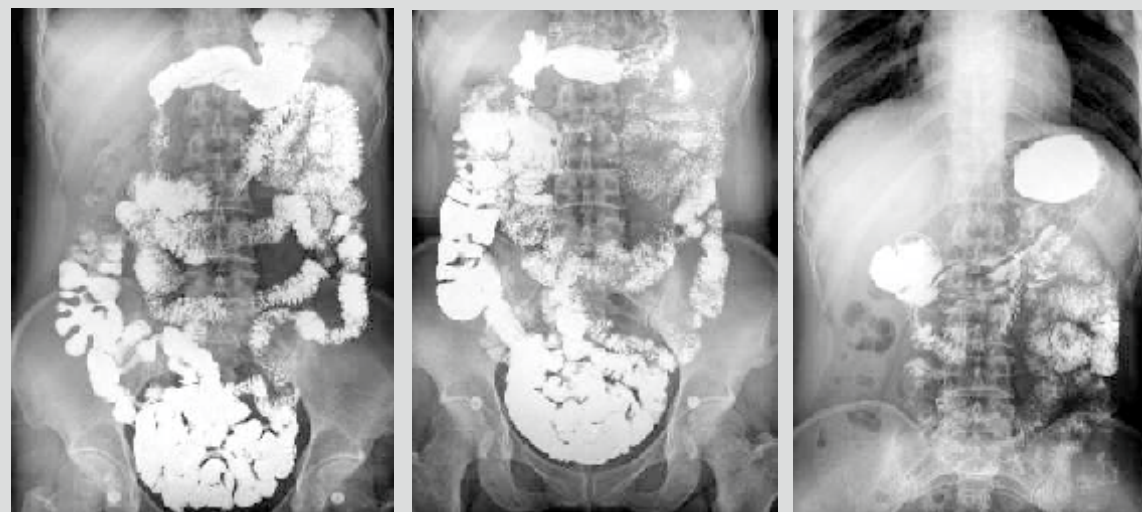


### Digital Fluoroscopy

Full view area with 17 X 17 inches, easy for lesion observation and locating, high definition real-time spot film with 9 million pixels for a more precise diagnosis. Dynamic checking for fluoroscopy, esophagography, upper gastrointestinal (such as barium enemas, barium meals and barium swallows), intravenous urography (IVP), HSG, T-tube cholangiography and so on.

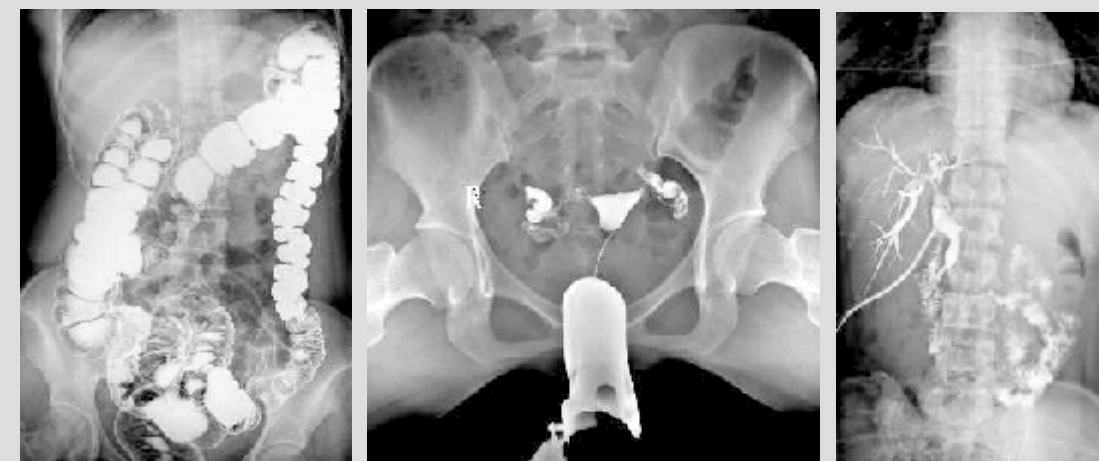
### Digital Gastrointestinal

Eliminate the defects caused by conventional gastrointestinal machine, obtain larger view area.



### Digital Contrast

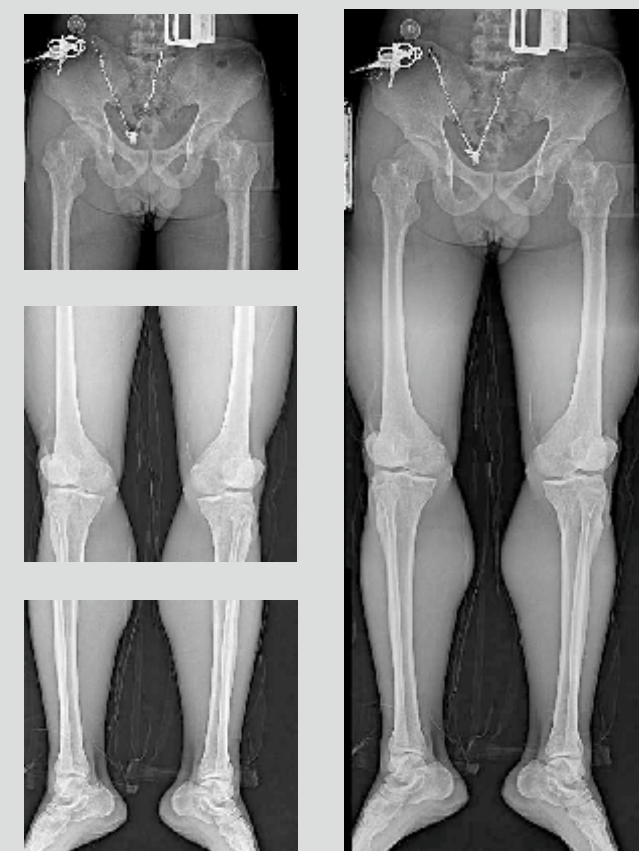
Real-time entire contrast observation such as OCG, ERCP, IVP, HSG, T-tube cholangiography, etc. One image shows all the details.



### Smart Image Stitching

#### High definition full body x-ray Image

With large view size and advanced image processing workstation, BPL Dynamic DR System can provide a high definition full-body x-ray image by automatic image stitching processed by the software, especially helpful for orthopedics.





# Accurate Diagnosis in Different Departments

## Gastroenterology Department

Upper/Lower Gastrointestinal Contrast  
Esophagus Barium Meal Contrast  
Fistulography Contrast

## OBG Department

Uterus Contrast

## Pediatrics Department

Foreign matter Orientation  
(Bronchus Parotid Contrast)

## Hepatobiliary Department

T-tube Cholangiography  
Cholecystography

## Urology Department

Pyelography  
Urethral Contrast

## Orthopedic Department

Long Bone Stitching



# Core Technology

## Superior digital image processing technology

BPL DT570's two-channel parallel-processing GPU module, ROI (Region of Interest) automatic identification module and efficient EAE automatic image enhancing software enables the image processing to be fast and efficient. The processed images will be exquisite and less sharp, showing clearer image layers and can have a very high imaging contrast ratio for details identification.

## Cutting-edge dynamic detector technology

BPL DT570's Dynamic Detector loaded with a  $3072 \times 3072$  pixels matrix and a 14 bit dynamic gray scale, which can generate high definition digital x-ray images with 9 million pixels. Comparing with static DR system, images from BPL DT570 DR System contains more information, higher imaging contrast ratio, and wider dynamic ranges. Comparing with conventional fluoroscopy system, BPL DT570 DR System can do high definition real-time spot film, converting between dynamic imaging and static imaging at millisecond rate, greatly reducing details missing and helping make a more precise diagnosis.



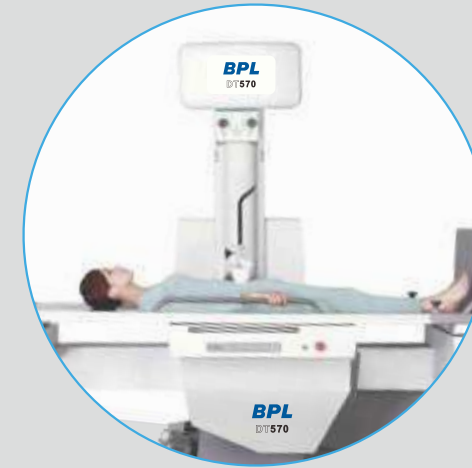
Conventional Image Processing



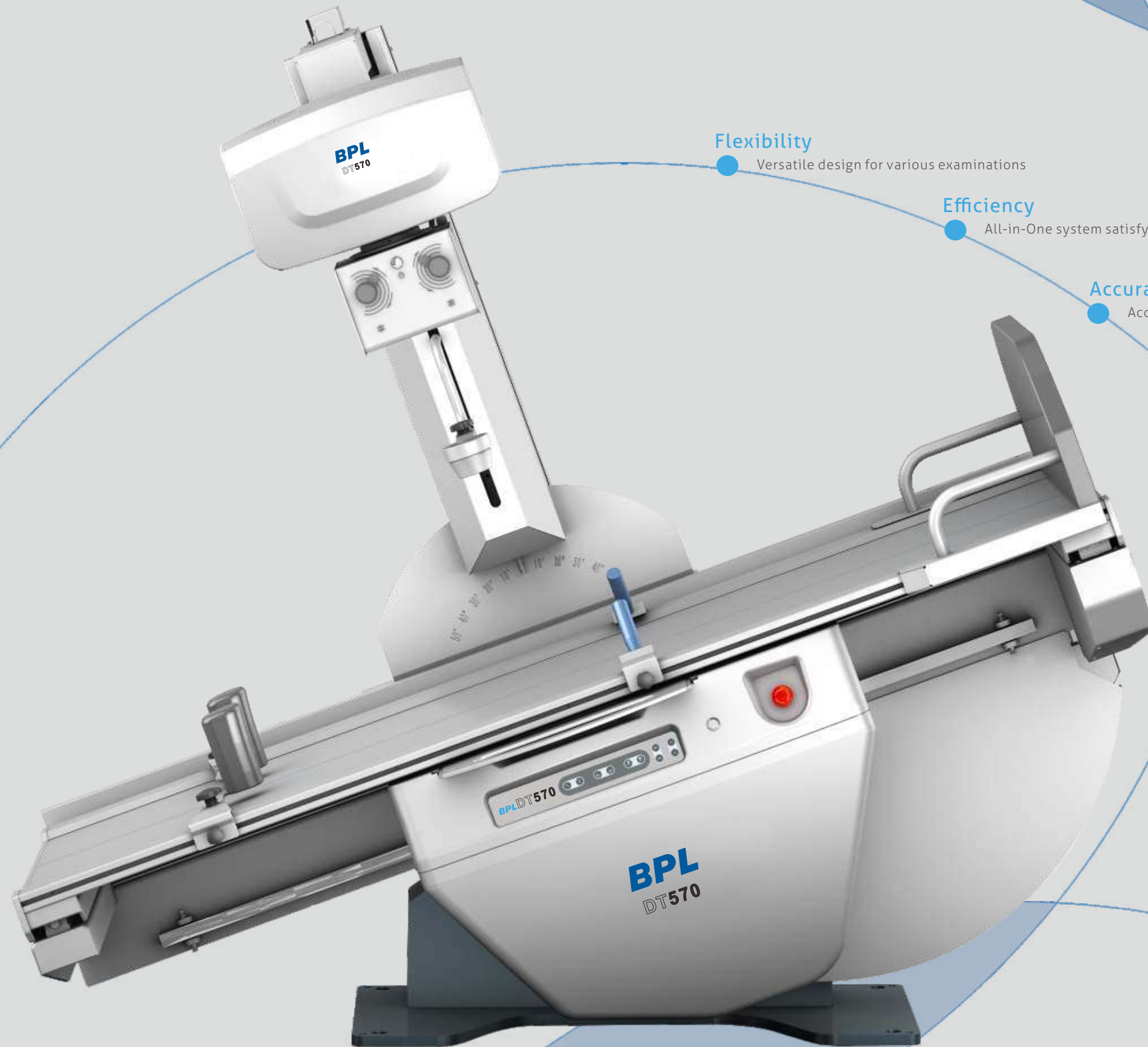
BPL DT570 Software Processing

## Effortless operation

BPL DT570 DR System can do both remote control and patient side control, with patient table titling from horizontal to vertical dimension, and vice versa. In horizontal dimension, the patient table can also be adjust left and right for better observation. The X-ray tube can move up and down for SID adjusting from 1 meter to 1.8 meters for different examinations and X-ray tube together with the tube column can also tiling by  $45^\circ$  both left and right for special angles. The compressor for contrast can be moved when the doctor is observing the contrast process. All those operations can be operated by remote control with precise preset parameter calibration.







### Flexibility

Versatile design for various examinations

### Efficiency

All-in-One system satisfy various clinical demands

### Accuracy

Accurate diagnosis in different departments

### Performance

Great performance and enhanced workflow