









A Comprehensive Surgical Imaging Experience





Parameters		Specification	
X-RAY GENERATOR			
Max. Output		3.6 KW	
Frequency		110 kHz	
Operating modes	KV Range	mA Range	
Continues fluoroscopy mode	40 – 110	0.1 to 4mA	
Boost Mode	40 – 110	4 to 15mA	
Pulse Mode - Normal	40 – 110	1 to 15mA	2,4,6,8 PPS
Snap Mode	40 – 110	4mA to 20mA	
Rad Mode	40 - 110	Upto 70mA	1 – 200mA s
RAD APR: _16Programs			

X-RAY TUBE		
Focal Spot Nominal Value (Small / Large)	0.6/1.5 mm ²	
Anode type	Stationary	
max. tube Current	80 mA	
Anode heat Content	42 KHU	
Max. Anode heat dissipation Rate	200 W	
Housing Heat capacity	306KJ = 428KHU	
Housing Cooling Rate	7 degree C / 30 Min	
Total Filtration	≥ 3 mm Al	
Leakage Radiation from Tubehead at 1 Mtr. From Tube Focal Point	<100 uGrey in 1 Hour	
Safety Interlocks	For Max KV, Max mA, Max temp, Max fil	

COLLIMATOR SYSTEM	
Fixed Collimation	Fixed Slot Collimation with beam limited to FPD size
Collimator	
Shutter diaphragm	For symmetrical collimation

IMAGE ACQUISITION MODES		
Fluoroscopy Mode	Continuous Fluoro with LIH	
	Stationary	
	Boost Mode	
	Pulse Mode	
	Snap Mode	
Radiography Mode	YES	

X-RAY DYNAMIC DETECTOR		
Detector size	21CMx21CM	
Material	aSi with CsI scintillator	
Dual Mode	21CM/11CM	
DQE (0)	72%	
Pixel Pitch	139 micron	
Scan Depth	16 Bits	
Grid	230x230 mm physical area, Ratio – 8:1, 60Lines/cm, FD : 1000mm	

IMAGE PROCESSING		
Pixel Matrix	1.5K x 1.5K x 16 bit	
Preset Imaging Profile	Multiple	
Manual digital Contrast / Brightness control	Yes	
Negate Mode	Yes	
Horizontal/ Vertical flip	Yes	
Noise reduction by means of recursive filter	Yes	
Image Rotation	Yes. 90 degree/free hand	
Zoom and Pan	Yes	
Edge Enhancement	Yes	
Last Image Hold	Yes	
Print	Yes. Dicom / Non Dicom	
F-Cine Play/Pause/forward/reverse	Yes	
Text Annotations	Yes	
Measurements	Distance, Angle, Area	
DICOM 3.0 export	Yes	
Export Images JPEG/BMP/PNG	Yes	
Delete Images / Patient Records	Yes	
Patient Registration	Yes. Emergency/Normal	
Multiple Image View	Yes	
Auto Image save	Yes	
Swap and Auto swap feature	Yes	
Connectivity Features	Wired Ethernet/USB data transfer/ CD-DVD drive/PACS Connectivity	
Internal Storage	1,00,000	

Technical Specifications

CONTROL PANEL		
Display Type	Full Touch, Graphical, Coloured	
Size	7"	
Image Management features	Yes	
Collimation Control	Yes (Optional)	
Laser Aimer Pointer	Yes	
Display of errors on console	Yes	
Fluoro Timer / Reset	300 Sec	
Audible Exposure Indication	Yes for high dose mode	

DOSE REDUCTION FEATURES		
Laser Aimer (Detector side)	Yes	
Pulsed Fluoroscopy	Yes	
Auto Dose Mode	Yes	

OTHER FUNCTIONS		
Emergency Stop	Yes	
Dual Foot Switch/ Hand Switch	Yes	
Laser class	Class-1	
Type of LASER	Laser DIODE	
Wavelength	650 nm	
Laser colour	RED	
Laser Power	Less than 1W	

DETACHABLE PARTS	
Hand switch	Yes
Footswitch	Yes
Buggy and Monitor Trolley connection	Yes

ENVIRONMENTAL CONDITIONS (OPERATION)		
Temperature range	+ 15°C to + 30°C	
Relative humidity	30% to 70%, non-condensing	
Barometric pressure	700 hPa to 1060 hPa	

ENVIRONMENTAL CONDITIONS (STORAGE)		
Temperature range	+ 0°C to + 45°C	
Relative humidity	30% to 90%, non-condensing	
Barometric pressure	700 hPa to 1060 hPa	





MECHANICAL CHARACTERISTICS		
Vertical Run	400 mm	
Horizontal Run	200mm	
Wig-Wag (Swivel Range)	± 12.5°	
Arc Rotation around Horizontal Axis (Angulation)	±190°	
Orbital Movement (Over-scan)	130° (– 40° to + 90°)	
S.I.D	1050mm	
Arc Depth	630 mm	
Usable Space between X-Ray Tube Head and FPD (Free Space)	805 mm	
C-Arm Dimensions (LxWxH) - at maximum positions	???	
Wheelbase width	800mm	
Locks for Rotation, Swivel & Arc Orbital movements	Yes	
Weight	290 Kgs Approx	
Actuator assisted Motorised noise-free Up/Down movement	Yes	
Foot Switch Holder	Yes	
Foot Lock to immobilise the C-Arm	Yes	
Wheels with Cable Deflector	Yes. Rear wheel	
Steering wheel with Rotation	Yes, 90 deg	

Technical Specifications



TROLLEY/Workstation	
Option - 1	
Display: LED	32" QHD display
Image display pixels	2560x1440
Brightness	350 cd/m2
Cart Dimensions (LxWxH)	464 x 400 x 1764
X-Ray Indicator	Integrated
Isolation transformer	YES
Weight	150 Kg Approx.
Option - 2	
Display : LED	31.5" 8MP Colored Medical Grade
Image display pixels	3840x2160
Brightness	450 cd/m2 or better

CLASSIFICATION OF THE PRODUCT	
Type of protection against short circuits	Class I Unit
Use Conditions	Continuous working with intermittent load
Unit not to be used in flammable anaesthetized environment	Yes

REGULATORY CERTIFICATIONS		
Regulatory Approvals	BIS, AERB, CDSCO	



ELECTRICAL CHARACTERISTICS		
Single phase voltage	100V - 240VAC, +/-10%	
Frequency	50Hz/60Hz	
Absorbed Current	Fluoroscopy - 11A@230V	
	Radiography Mode - 22A@230V	
Line Compensation	Automatic	
Line Resistance	0.4 Ω or Lesser.	
Plug Standard	As per country specific	

BPL CRAY Pro Plus Series FD, Service is Powered by



Service Helpline
1800-425-2355
9AM-8PM (Monday - Saturday)

THE ECONOMIC TIMES

ISO 13485:2016 CERTIFIED COMPANY ISO 9001:2015 CERTIFIED COMPANY

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