



A World Class Surgical Imaging Experience



Happier Living Everyday

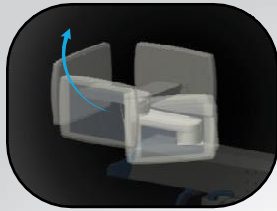


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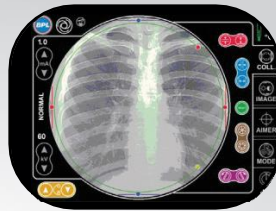


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Enhanced User Experience



Ergonomic Touch Panel
10" Touch Panel with Tilt & Swivel enables better viewing for the operator



Single Shutter Collimator
Position the collimator by adjusting the blade positions on touch screen LED panel



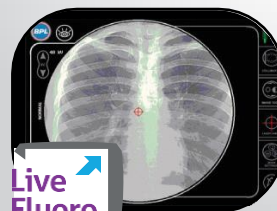
Real-Time Image Management
Access to image improvement features ie: Noise Reduction, Edge enhancement, Image Rotation, Image Inversion & Reference Image



Large 10" intuitive touch panel control



Real-Time Heat Monitoring
The Technician can visualise monoblock thermal status in real-time on the Touch panel



Live Fluoro
Live & LIH Fluoroscopy Image display at Control Panel for accurate C-Arm Positioning with no retakes



Laser Aimer
Pointer display on live / LIH Image For radiation free positioning



Reduced Radiation Exposure for Patients and Clinicians



Collimator & IRIS
Single shutter collimator for dose radiation



Laser Aimer
For fast and radiation free positioning from control panel



Auto Mode
Automatic dosage control to adjust systems exposure automatically as per body's region



Low rate Pulsed Fluoroscopy
Available for significant dose reduction



Dosimetric indications
Dose rate & commulative dose display



Stray Radiation
Leakage radiation is virtually eliminated

+ Optional Features

Experience the World Class 1K x 1K Surgical Imaging



The Holistic 1K x 1K Digital Imaging Chain

BPL C Ray Prime is Powered by X-MED 1K² Digital Imaging Chain which ensures that the quality of the image is enhanced at every step, thus providing you an holistic Surgical Imaging experience

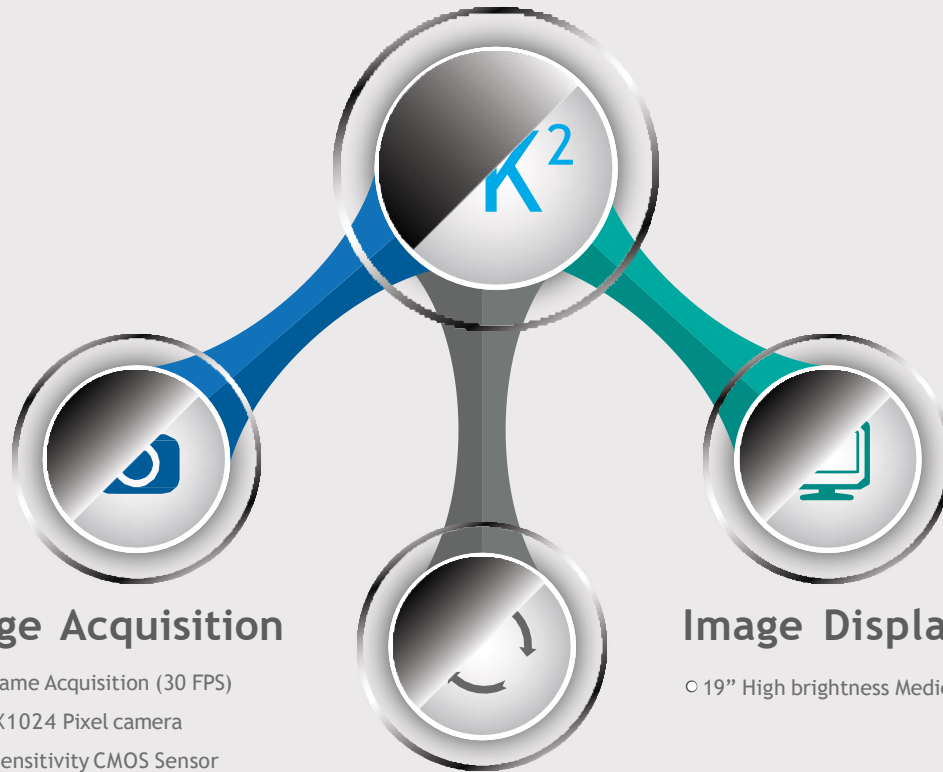


Image Acquisition

- Full Frame Acquisition (30 FPS)
- 1024X1024 Pixel camera
- High Sensitivity CMOS Sensor
- Progressive Scan
- GigE Output

Image Processing

- Digital gain control
- Real Time Noise Reduction by Temporal Averaging
- High Resolution Digital Image Output
- Preset: As per anatomy/ procedures

Image Display

- 19" High brightness Medical Grade monitor



Streamlined Workflow



Image Management

- Access to Image Management Features from the Control Panel
- Real time brightness/ contrast
- Noise Reduction Level (2,4,8,12,16,32)
- Negative, Mirror, Flip, Edge enhancement & Image Rotation



Patient Data Management

- Patient Data entry facility
- 2,00,000 image storage capacity
- Measurements and annotations
- Cine loop recording & storage



Productivity

- Quick response in auto mode
- Multiple operating modes
- Touch-X Control panel for enhanced user experience
- Alphanumeric Keyboard



Connectivity

- Data export: USB, DVD, DICOM & LAN
- DICOM 3.0 send
- push to PACS (optional)

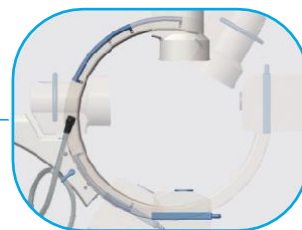
Superior Ergonomic Design for Effortless Operations



Intelligent Steering Mechanism with rear wheel rotation



Low Lateral Height ensures operator comfort by minimizing the need for table movement



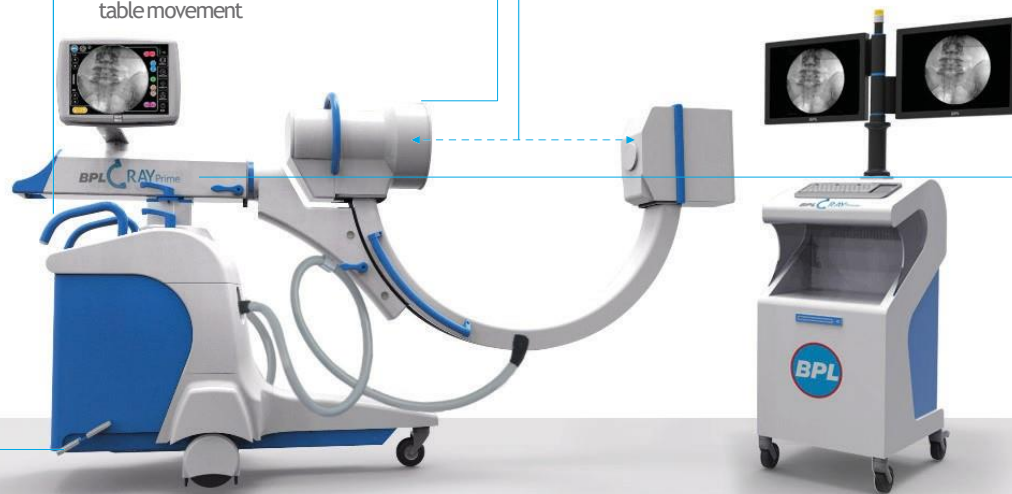
Arc Depth of 63 cm and clearance of 77 cm for unobstructed patient access



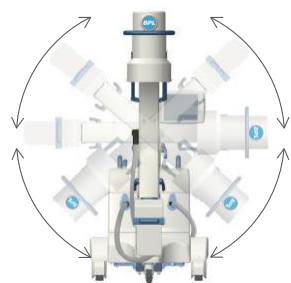
Modular Workstation with dual foldable high resolution monitors & spill proof keyboard



Efficient Foot Brake is located on right side of the console



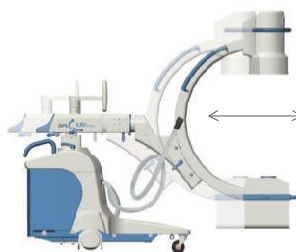
Effortless quarter turn locking mechanism.
Aluminium extruded "Rust Free" vertical column for silent up/down movement



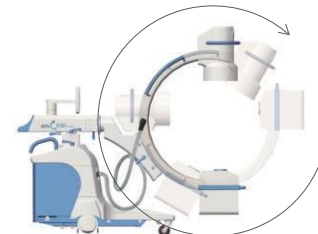
± 210° Axial Rotation



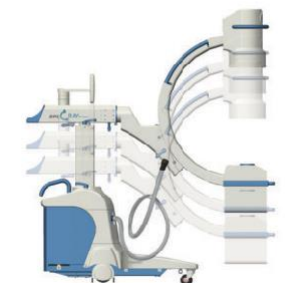
± 12.5° Wig Wag Movement



200 mm Horizontal Movement



-32° + 90° Orbital Rotation



450 mm Vertical Movement

BPL C-RAY[®] Prime Technical Specifications

X-Ray Generator

Type	High Frequency; 40KHz
Output	3.5 KW
KV Range	
(Fluoroscopy / Radiography)	40 - 110 KVp
Fluoroscopy mA	0.1 - 5mA
Boost Mode	upto 10mA
Radiography mAs	1 - 200 mAs
Snap Shot Mode	15mA

X-Ray Tube

Focal Spot Nominal value (Small/Large)	0.6/1.5 mm
Collimation System	
Single Parallel Shutter	Soft Shutter as Standard

Control Panel

Display Type	Full Touch, Colored Graphical Display
Display size	10"
Touch Panel Arm	360 degree swiveling facility & Tilting Facility
Operating Modes	Continuous Fluoroscopy Mode Pulsed Fluoroscopy Mode Boost Fluoroscopy Mode Snapshot Mode Auto Mode Radiography Mode

Image Intensifier

Type	9Inches; Triple Field (9"/6"/4.5")
Grid	Round, 9"- 10:1, 103 Lines, FD: 36-39"

Camera

Type	CMOS, 1024 x 1024 Pixels, GigE output
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Image Memory

XMED 1K2	PC based image memory with real-time & post-processing features; storage upto 2,00,000 images DICOM 3.0, USB Export, DVD R/W & dose display
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Mechanical Characteristics

C-Arm Dimension	
Vertical Run	450mm
Horizontal Run	200mm
Wig-Wag (Swivel Range)	± 12.5°
Angulation	± 205°
Orbital Movement (Over scan)	121° (-30° to +90°)
SID	965 mm
Arc Depth	630 mm
Clearance	760 mm

Workstation (Modular)

Displays : LCD Monitors	: 19" Flicker-free with LED backlight
	: Medical Grade Monitor
Foldable Display	Yes

Other Functions

Emergency Stop	
Foot Switch	
Equipment Malfunction Indication	

Electrical Characteristics

Single phase voltage	230 ± 10% V AC, 50 Hz
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Designed for Safety & Reliability

C-RAY Prime is equipped with comprehensive safety features which ensures that your C-ARM's performance is at its best and provides you with maximum Uptime

- Automatic shut off to prevent over-heating of the Equipment
- Emergency stop switch for manual shut off
- Complete shielded wiring and EMI protection
- Isolation Transformer safeguards the equipment from power surge, spike, fluctuation and the operator from electric shocks

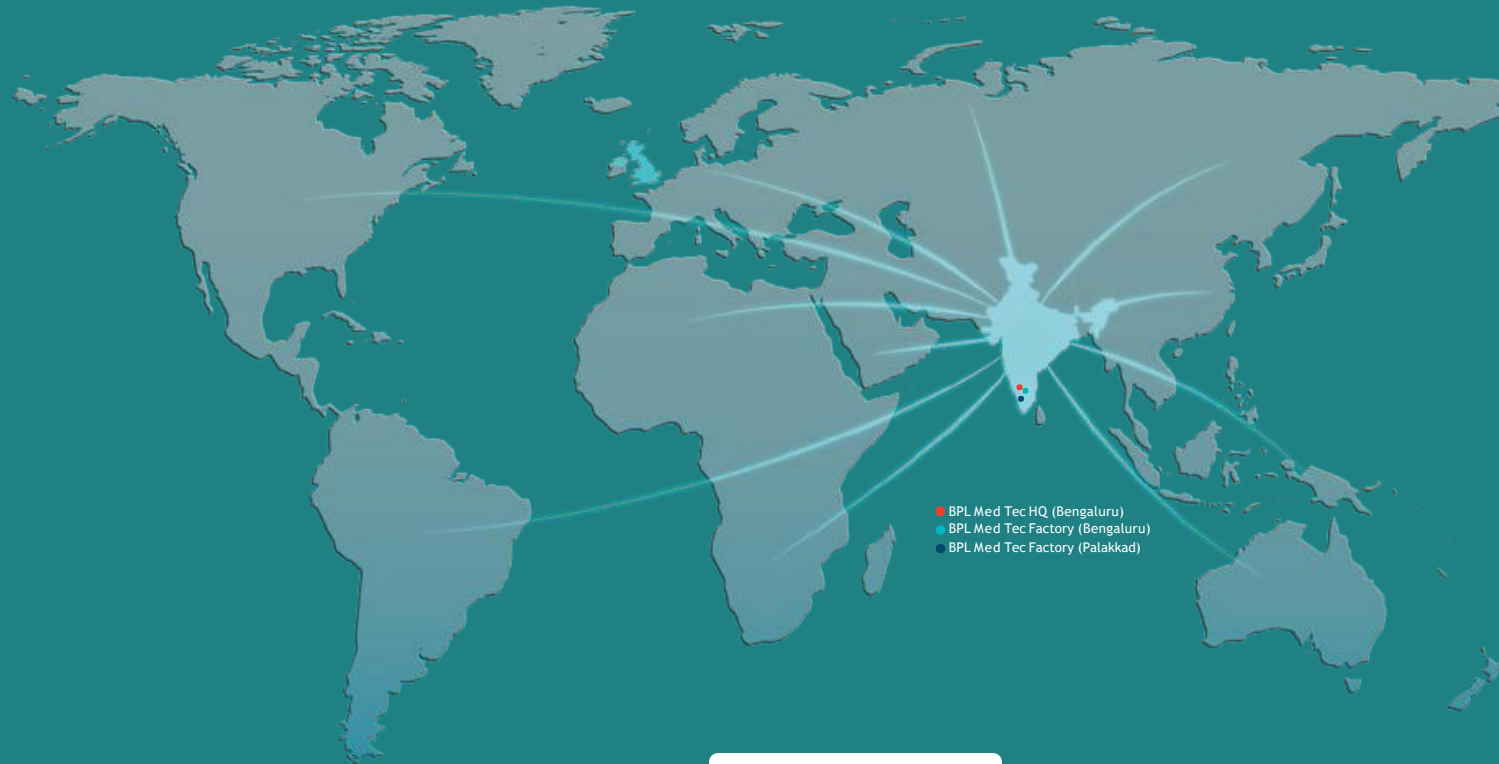
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BPL Smart **U**Keep[®]
Service

We Engineer Uptime

Service Helpline
1800-425 2355

A Global Medical Technology Company



- BPL Med Tec HQ (Bengaluru)
- BPL Med Tec Factory (Bengaluru)
- BPL Med Tec Factory (Palakkad)

BPL CRAY PRIME XMED 1K² Service is Powered by



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

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