

BPL  **RAY**[®] Prime

X-MED **1K²**

BPL Medical[®]
Technologies



Approved by
AERB & BIS



A World Class Surgical Imaging Experience

Happier Living Everyday

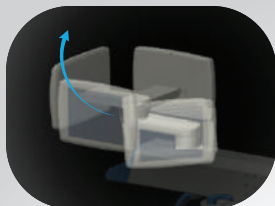


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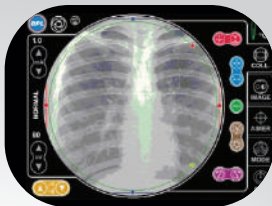
www.bplmedicaltechnologies.com

Enhanced User Experience



Ergonomic Touch Panel

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



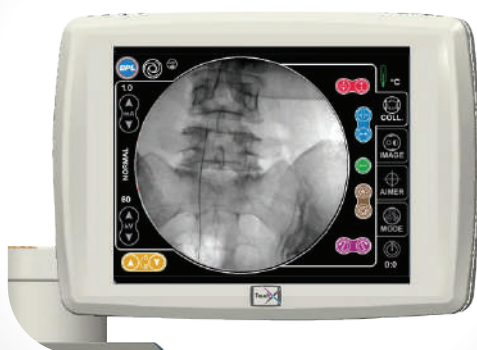
Digital Preview Collimation⁺

Position the collimator by virtually adjusting the blade positions on touch screen LCD panel & save yourself from unnecessary radiation exposure



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



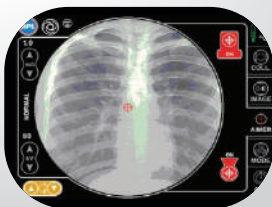
Real-Time Heat Monitoring

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



Advanced Laser Aimer

Access to Laser aimer operations with Pointer display on Live / LIH Image



Reduced Radiation Exposure for Patients and Clinicians



Digital Preview Collimation⁺

Collimator preview without X-ray exposure helps in dose reduction



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



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
- Mesurements and annotations
- Cine loop recording & storage

Productivity

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

Connectivity

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

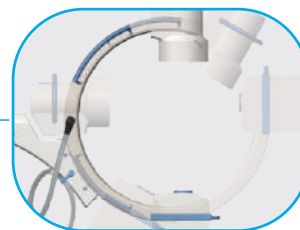
Superior Ergonomic Design for Effortless Operations



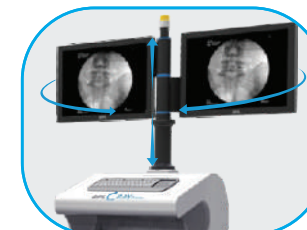
Intelligent Steering Mechanism with rear wheel rotation



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



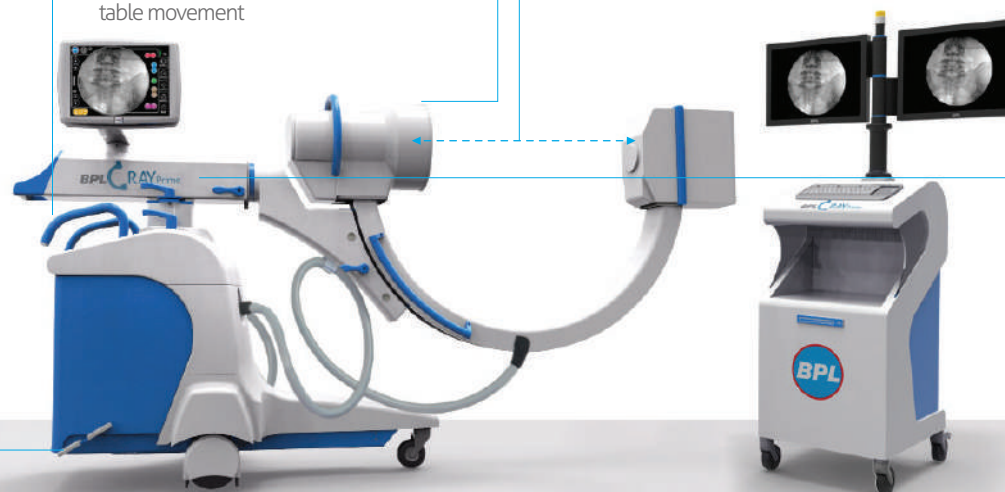
Arc Depth of 63 cm and clearance of 77 cm for unobstructed patient access



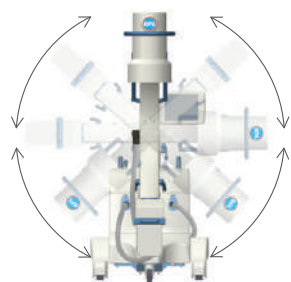
Modular Workstation with dual foldable high resolution monitors & spill proof keyboard



Efficient Foot Brake is located on right side of the console



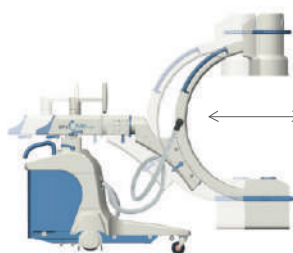
Effortless quarter turn locking mechanism.
Aluminium extruded "Rust Free" vertical column for silent up/down movement



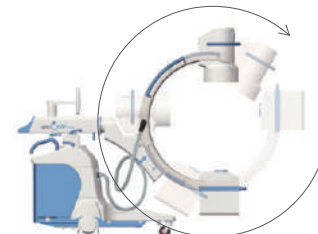
± 210° Axial Rotation



± 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 / 5KW
KV Range	
(Fluoroscopy / Radiography)	40 - 110 KVp / 40-120kVp [#]
Fluoroscopy mA	0.1 - 5mA / 0.1-3.7mA [#]
Boost Mode	upto 10mA / upto 15mA [#]
Radiography mAs	1 - 200 mAs / 1-250mAs [#]

X-Ray Tube

Focal Spot Nominal Value	
(Small / Large)	0.6/ 1.5mm ² / 0.3-0.6mm ² [#]
Collimation System	
Single Parallel Shutter	Soft Shutter as standard
Iris diaphragm ⁺	For concentric, radiation free collimation
Parallel Shutter with Rotation ⁺	for Symmetric

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	450 mm
Horizontal Run	200 mm
Wig-Wag (Swivel Range)	± 12.5°
Angulation	± 210°
Orbital Movement (Over scan)	122° (-32° to +90°)
SID	970mm
Arc Depth	630 mm
Clearance	770 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

Powered by

BPL SmartUP[®] Keep Service

We Engineer Uptime

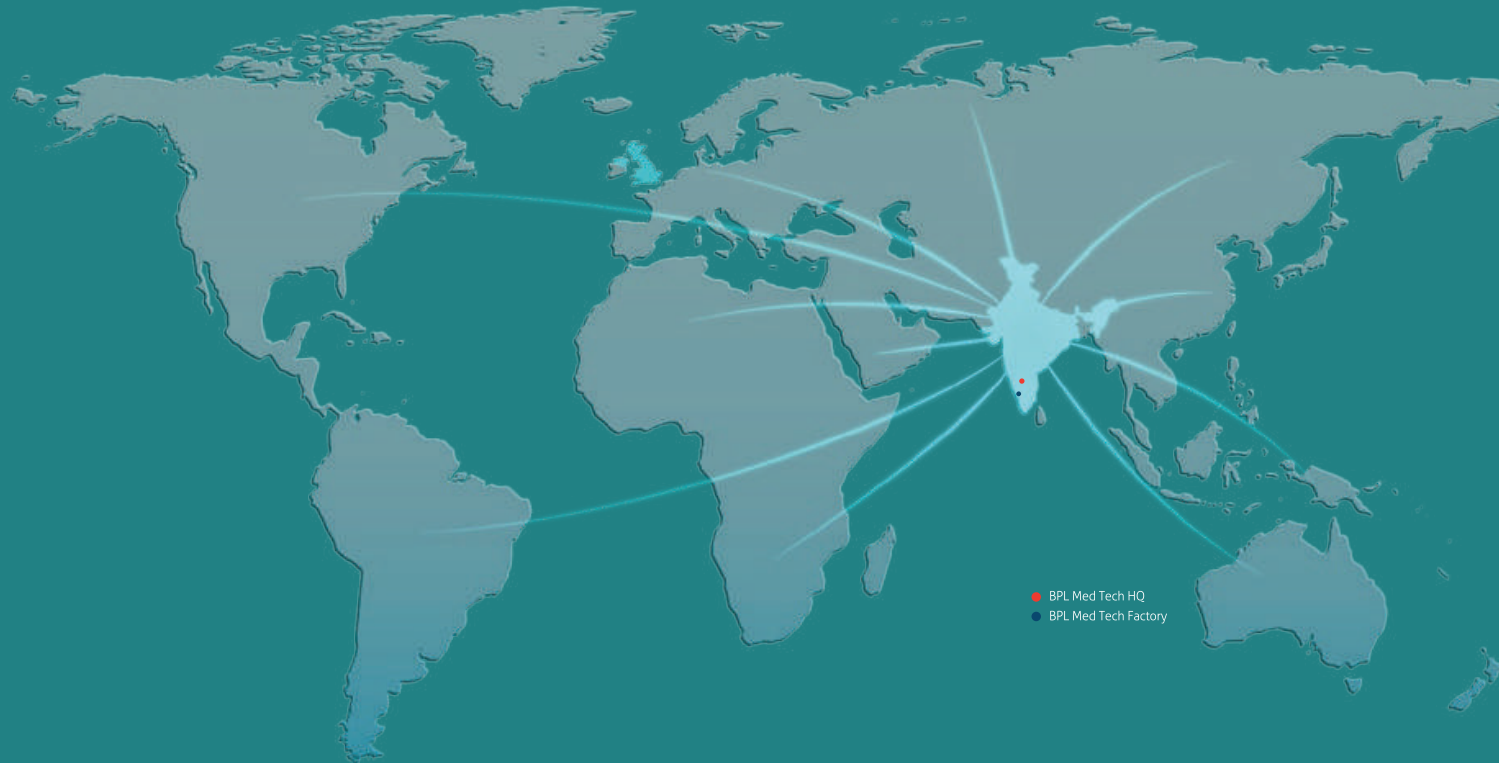
**Service Helpline
1800-425-2355**

Designed to meet AERB regulation and BIS IS 7620 (Part 1) standard.

Note: Available with rotating anode x-ray tube
Model: C- Ray Prime RA

+ Optional Features

A Global Medical Technology Company



BPL CRAY PRIME XMED 1K² Service is Powered by



Service Helpline
1800-425-2355

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

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