BPL C RAY™ Prime

BPL Medical Technologies

www.bplmedicaltechnologies.com

A World Class *Surgical Imaging Experience*

BPL

Happier Living Everyday

Crafted for Enhanced ***User Experience***

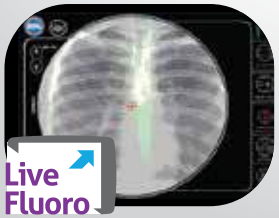
Ergonomic Touch Panel
10" Touch Panel with Tilt & Swivel enables better viewing for the operator

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 & 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

Protection to Patient and Surgeon from Unnecessary Dose

Digital Preview Collimation+
Collimator Preview without X-Ray exposure helps in dose reduction

Laser Aimer+
for fast & Radiation free positioning from Control Panel

Auto Mode
Automatic dose control to adjust sytsem's Exposure automatically as per the body region

Low Rate Pulsed Fluoroscopy*
available for significant dose reduction

Digital Image Rotation from Control Panel*

Leakage Radiation is virtually Eliminated

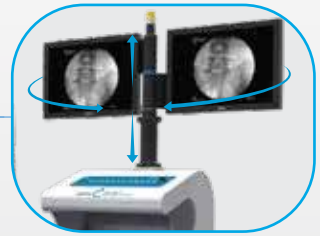
* Available in MXDI, Memory Variant
+ Optional Features

Superior Ergonomic Design for ***Effortless Operations***

Intelligent Steering Mechanism with rear wheel rotation

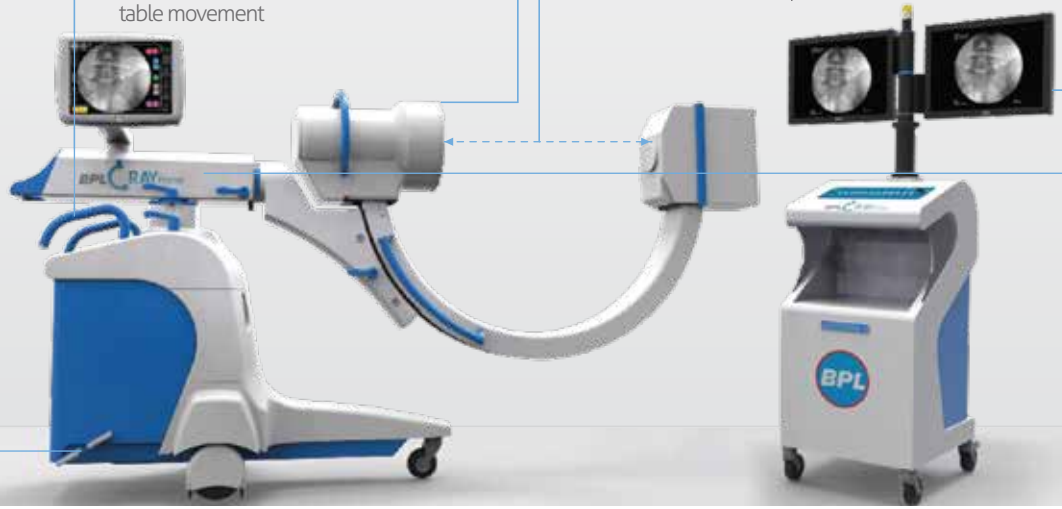
Low Lateral Height ensures operator comfort by minimizing the need for table movement

Arc Depth of 63 cm and clearance of 76 cm for unobstructed patient access



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

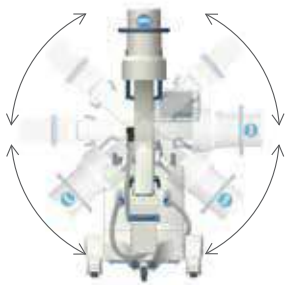
Efficient Foot Brake is located on right side of the console



Effortless quarter turn locking mec hanism.

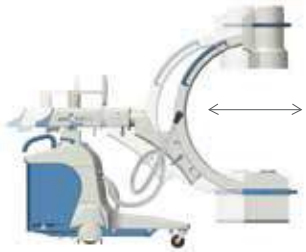
Aluminium extruded "Rust Free" vertical column for silent up/down movement

*Available in MXDI variant only

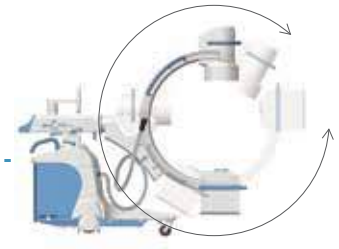


± 210° Axial Rotation

± 12.5° Wig Wag Movement



200 mm Horizontal Movement



-30° + 90° Orbital Rotation

450 mm Vertical Movement

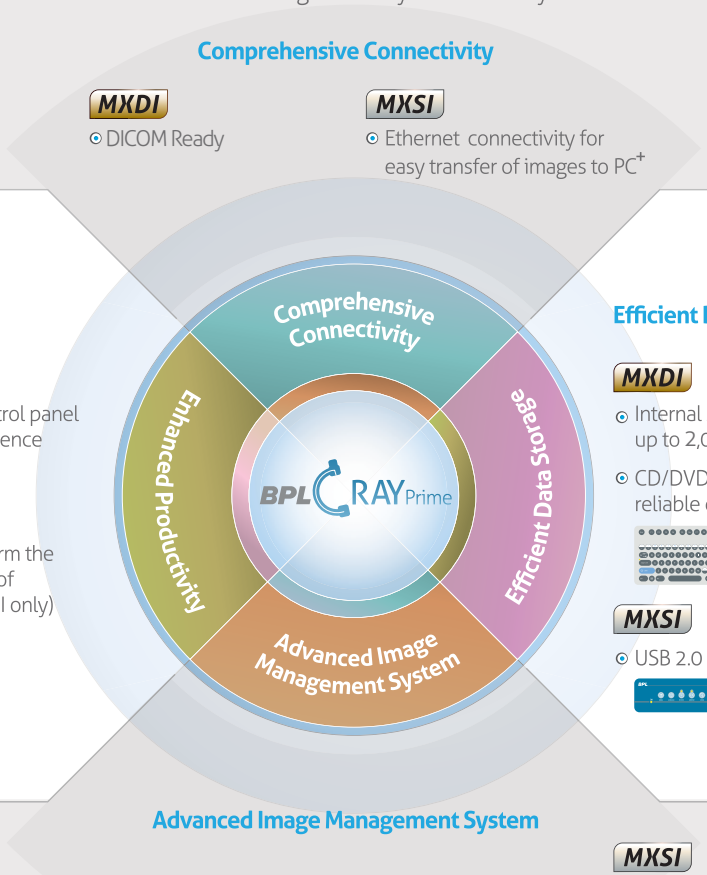
Streamlined Workflow

BPL C-Ray Prime

MXDI PC Memory

MXSI Embedded Memory

BPL C-Ray Prime is available in 2 variants based on Image Memory that will suit your needs and workflow.



Comprehensive Connectivity

MXDI

- DICOM Ready

MXSI

- Ethernet connectivity for easy transfer of images to PC+

Enhanced Productivity

- BPL's unique TouchX control panel for enhanced User experience

- Infra-red remote to perform the complete functionalities of Keypad (Available in MXSI only)

Efficient Data Storage

MXDI

- Internal Static Image Storage Capacity for up to 2,00,000 images
- CD/DVD Drive and USB 2.0 for reliable data storage and transfer

MXSI

- USB 2.0 for easy data storage and transfer

Advanced Image Management System

MXDI

- Frame Averaging & Digital Image rotation
- Cine Loop for Fluoroscopy
- Positive / Negative image inversion
- Left / Right & Top / Bottom image reversal
- Zoom, roam & Thumbnail overview
- Real-Time Brightness / Contrast adjustment & Edge Enhancement
- Patient's Dose Display
- Mesuraments/ Anotations

MXSI

- Frame Averaging & Digital image rotation
- Positive / Negative image inversion
- Auto Save, Reference Image, Top / Bottom Image reversals
- LIH/LIVE/Auto/ Pulse Sequence mode

+Optional Features

Wide Clinical Applications

BPL C-RAY™ Prime Technical Specifications

X-Ray Generator

Type	High Frequency; 40KHz
Output	3.5 KW /5 KW#
KV Range	
(Fluoroscopy / Radiography)	40 - 110 KVp ; 40 - 120 KVp#
Fluoroscopy mA	0.1 - 3mA ; 0.1 - 3.7 mA#
Boost Mode	Up to 7.5 mA / 15 mA#
Radiography mAs	1 - 200 mAs / 250 mAs#

X-Ray Tube

Focal Spot Nominal Value	
(Small / Large)	0.6/ 1.5mm^2 ; 0.3/ 0.6mm^2#
Collimation System	
Iris diaphragm+	For Concentric, radiation free collimation
Parallel Shutter with Rotation+	for Symmetric, radiation free collimation

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"

CCD Camera

Type	1/2" CCD, 752 x 582 Pixels, CCIR, 625 lines; 50 Hz

Image Memory

MXSI	Internal 100 image storage, Auto Save IR Remote, USB Drive Storage
MXDI	PC Base Advanced Image memory with Real-time & Post-processing features; storage upto 2,00,000 images DICOM Ready Dose Display

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)	120° (– 30° to + 90°)
S.I.D	960 mm
Arc Depth	63 cm
Clearance	76 cm

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, 50/60 Hz

Available in C-RAY PRIME RA (Rotating Anode Version)
⁂ Available in MXDI Memory Variant
+ Optional Features

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*

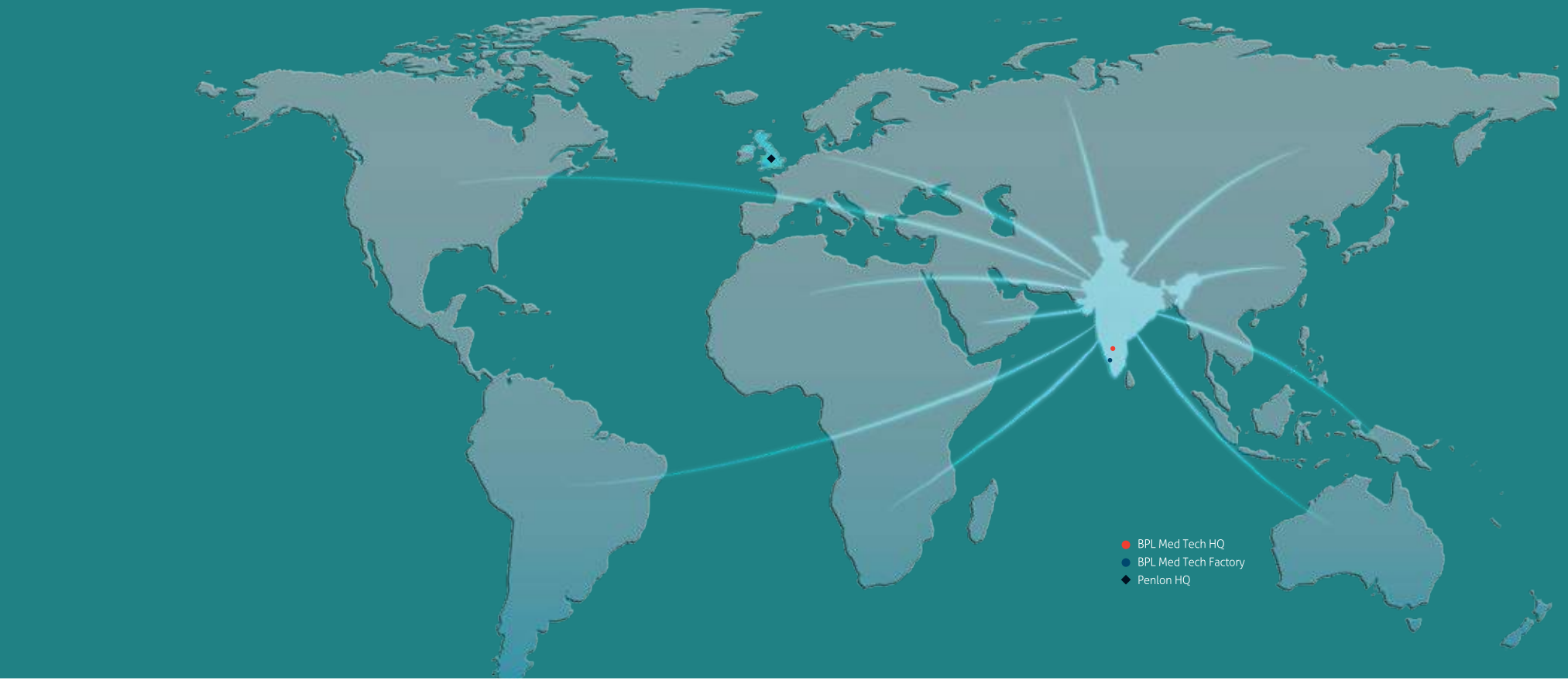
Powered by

BPL SmartUPKeep Service

We Engineer Uptime

Designed to meet IEC 60601 safety standards, AERB regulations and BIS IS 7620 Part 1

A Global Medical Technology Company



CERTIFIED ISO 13485 : 2016 COMPANY

ORIGINAL
ALWAYS USE GENUINE BPL CONSUMABLES AND ACCESSORIES FOR BETTER PERFORMANCE

BPL

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BPL CRAY PRIME .5 K X.5 K WITH MXSI MXDI RA 6PGB 23:10:18