



The Philips BV Pulsera C-Arm is a multi-application mobile X-ray imaging system for the most challenging interventional procedures in Pain Management, General, Orthopedic, Vascular, Neurovascular and Cardiac surgeries. BV Pulsera is a powerful fluoroscopy system with a high-resolution CCD camera, outstanding image quality with low X-ray dosage, crisp, clear images and superior penetration power.

Clear Visualization

The Philips BV Pulsera features a full-range of radiation management protocols that allow low X-ray doses even during lengthy procedures, while still providing excellent image quality. The Pulsera comes equipped with unique technology to help maintain clear visualization of dense anatomy and complex vasculature:

- **High Power Pulsed Exposure** visualizes fast moving anatomy with outstanding image quality for a virtually unlimited amount of time.
- **Unique BodySmart software** promotes first time right imaging and dose efficiency. It delivers consistently superb image contrast by adapting the measuring field to the area of interest.
- **Automatic contrast and brightness** - single touch adjustment of contrast/brightness to the ROI to enhance details in real time.
- **High Definition Fluoroscopy** provides full contrast for the steepest projections, like lateral hip exams.
- **Digital Exposure (Sharp Shot) mode** allows a single high-quality image to be taken for archiving and printing.
- **Ortho Plus** - applies extra X-ray power to visualize challenging regions of interest with normal or obese patients.



Specifications

TV Monitors

- Type: Standard Color LCD monitors Extra high resolution, high contrast , extra high brightness, 18"
- screen size,TFT technology, resolution 1280x1024 (hvx), 250cd/m2
- High Brightness Color LCD monitors Extra high resolution, high contrast , extra high brightness, 18"
- screen size,TFT technology, resolution 1280x1024 (hvx), 500cd/m2

Video Camera

- High resolution 1k x 1k CCD camera
- High resolution CCD camera.
- 525 line/frame.
- Full frame capture.
- 360° motorized rotation.
- Left-right image reversal.
- Top-bottom image reversal.
- Negative mode.
- Computer controlled features: (optional)
- Gain.
- Blanking.
- Camera iris.

Generator

- 60 80 KHz High Frequency converter, Constant Potential (CP)
- generator, micro-processor controlled
- Max. generator output: 7.5 kW
- Max. X-ray tube voltage: 120 kV
- Max. X-ray tube current: 100 mA

X-ray Tube

- Tube type: Rotating anode
- Nominal focal spot values: (IEC 336) 0.3 IEC and 0.6 IEC
- Nominal X-ray tube voltage: 120 kV
- Maximum anode heat content: 222 kJ = 300 kHU
- Anode cooling capacity: 52 kJ/min. = 70 kHU/min.
- Maximum housing heat content: 1350 kJ = 1900 kHU
- Inherent filtration: 1.0 Al eq.
- Additional filtration: 3 mm Al + 0.1 mm Cu

Collimator

- Iris Type: Circular opening, lead iris leaves
- Indication: During LIH (and also on image)
- Shutter Type: 2 independently movable real lead shutters with steel wedge tip
- Rotation: 360°
- Indication During LIH (and also on image)

Fluoroscopy Mode

- kV range 40 to 120 kV
- mA range for Low Dose Fluoroscopy mode: 0.10 to 8.3 mA (up to 10 mA during Auto High Penetration)
- mA range for High Definition Fluoroscopy mode: 0.24 to 20.0 mA

Pulsed Fluoroscopy Mode

- Half Dose Fluoroscopy.
- Quarter Dose Fluoroscopy.
- Focal spot: 0.6 mm.
- kVp range: 40 – 120 kVp.
- mA range: 0.4 – 12 mA.
- Pulse rate: 6.25 or 12.5 pulses per second.
- Pulse width: 11 to 37 milliseconds.
- Computer controlled APF, mA, kVp and camera gain.

Half Dose Fluoroscopy

- kV range 40-120 kV
- mA peak range 0.4 - 12 mA
- Pulse widths 10, 16.6, 24 and 40 ms
- Pulse rate 12.5 pps

Digital Exposure Mode

- Half Dose Fluoroscopy.
- Quarter Dose Fluoroscopy.
- Focal spot: 0.6 mm.
- kVp range: 40 – 120 kVp.
- mA range: 0.4 – 12 mA.
- Pulse rate: 6.25 or 12.5 pulses per second.
- Pulse width: 11 to 37 milliseconds.
- Computer controlled APF, mA, kVp and camera gain.

camera gain.

Radiographic Mode

- Focal spot: 0.6 mm.
- kVp range: 40 – 120 kVp.
- Fixed 60 mA.
- 0.6 mm - mAs range: 3.2 – 125 mAs.

Image Interface

- 9 in Image Intensifier
 - Tri-mode 9 in/7 in/5 in image intensifier
 - 9 in.: 1.6 lp/mm
 - 7 in.: 2.1 lp/mm
 - 5 in.: 2.9 lp/mm
 - DQE: 65% (typical)
- 12 in Image Intensifier (optional)
 - Tri-mode 12 in/9 in/7 in image intensifier
 - 12 in.: 1.2 lp/mm
 - 9 in.: 1.4 lp/mm
 - 7 in.: 2.0 lp/mm
 - DQE: 65% (typical)

Hardcopy Options

- Thermal printer. (optional)
- DICOM. (optional)
- Image Capture Device. (optional)
- Laser aiming device. (optional)

C-Arm Dimensions

- Height: 71 / 91 in. (1805 / 2305 mm)
- Width: 35 in. (880 mm)
- Length: 76 in. (1930 mm)
- Weight: 695 lbs 315 kg.

WorkStation Dimensions

- Height: 69 in (1760 mm)
- Width: 32 in (800 mm)
- Depth: 37 in (925 mm)

