



The **Philips BV Pulsera** C-arm is a multi-application mobile X-ray imaging system that is used for the most challenging interventional procedures in pain management, general, orthopedic, vascular, neurovascular, and cardiac surgeries. The BV Pulsera is a powerful fluoroscopy system with a high-resolution CCD camera, outstanding image quality, low X-ray dosage, crisp and clear images, and features superior penetration power.

## Features

- High power pulsed exposure that visualizes fast moving anatomy with outstanding image quality.
- Unique BodySmart software that promotes “first time right” imaging and dose efficiency.
- Automatic contracts and brightness that offers a single touch adjustment of contrast/brightness to enhance details in real time.
- High-definition fluoroscopy provides full contrast for the steepest projections.



# Specifications

## C-arm Dimensions

- Height: 71 - 91" (180.5 - 230.5 cm)
- Width: 35" (88 cm)
- Length: 76" (193 cm)
- Weight: 695 lbs 315 kg.

## Workstation Dimensions

- Height: 69" (176 cm)
- Width: 32" (80 cm)
- Depth: 37" (92.5 cm)

## Video Monitors

- Dual 17" high-resolution, anti-glare, anti-static.
- Ambient room light sensor.
- Multi-LED X-ray "ON" indicator.

## Video 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.

## Hardcopy Options

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

## Image Intensifier

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

## Specialty Packages Available

- Extended processing
- Vascular functions
- Extended vascular functions
- Cardiac Pulsed functions

## Generator

- 80 kHz High frequency.
- 7.5 kW full-wave.
- Up to 120 kVp.
- Up to 60 mA for radiographic film exposures.
- Continuous fluoro boost mode up to 20 mA.
- Pulsed fluoro mode.
- Pulsed fluorography mode up to 60 mA.
- Full power from outlet: 50 Hz or 60 Hz, 100V-20A to 240V-10A.

## X-ray Tube

- Rotating anode X-ray tube.
- Focal spots: 0.3 mm and 0.6 mm.
- Anode heat capacity: 300,000 HU.
- Anode cooling rate: 70,000 HU/min.
- Housing heat capacity: 1,900,000 HU.
- Anode diameter: 2.8 in.
- Anode angle: 10°.

## Collimator

- Iris collimation with dual opposing lead shutters allowing elliptical, round and rectangular collimation.
- Minimum beam size < 5 X 5 cm<sup>2</sup>.
- Iris and shutters are continuously variable.
- All functions remotely controlled from the C-Arm control panel.

## Fluoroscopy Mode

- Focal spot: 0.3 mm and 0.6 mm.
- kVp range: 40 – 120 kVp.
- mA range: 0.2 – 20 mA continuous High Definition fluoro boost mode.
- Auto and manual modes.
- Continuous or Pulsed operation.
- APF varies mA, kVp and camera gain.
- User specific APF tables.

## 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.

## Pulsed Fluorography Mode

- Focal spot: 0.6 mm.
- kVp range: 40 – 110 kVp.
- mA range: Up to 60 mA.
- Pulse rate: 3 to 30 pulses per second. (optional)
- Pulse width: 8.0 / 9.5 / 11.1 milliseconds.
- Computer controlled camera iris, mA, kVp, & camera gain.

## Digital Exposure Mode

- Focal spot: 0.6 mm.
- kVp range: 40 – 110 kVp.
- mA range: 1.0 – 75 mA.

## Radiographic Mode

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

