

Philips BV Pulsera C Arm



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. The Philips 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.



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Philips BV Pulsera C-Arm

X-Ray System

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 cm²
- 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: 0.1 – 10 mA Low Dose fluoro mode
- 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

Video Imaging System Image Intensifier

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)

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

Video Monitors

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

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)



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