



The **Philips Veradius** c-arm produces high-quality images for guidance and positioning during diagnostic, interventional, and surgical procedures for adult and pediatric patients. The Veradius mobile c-arm can be used in and outside the operating room and is commonly used for orthopedic, neuro, abdominal, vascular, thoracic, and cardiac applications. This Philips c-arm features a rotating anode and a built-in beam filter that reduces dosage.

Features

- 2 high-brightness LCD monitors
- Hand switch control
- Foot switch control
- Flat detector
- C-arm rotation $\pm 180^\circ$



Specifications

Dimensions (C-arm)

Height: 64.05 in - 83.07 in (162.7 cm - 211.7 cm)

Width: 100.7 in - 108.6 in (255.8 cm - 275.8 cm)

Depth: 32.1 in (81.4 cm)

Weight: 44.1 lbs (332.5 kg)

Dimensions (Mobile View Station)

Height: 73.6 in - 64.6 in (187 cm - 164 cm)

Width: 27.6 in (70.2 cm)

Depth: 27.6 in (70.2 cm)

Weight: 733 lbs (195 kg)

Flat Detector

X-ray to Light Conversion: Scintillator which consists of Thallium doped Cesium Iodide

Light to electronic charge and voltage conversion: Amorphous silicon diodes on the sensor plate convert the light into electronic charge, and TFT switches on the sensor plate release the charge towards the CSAs (Charge Sensitive Amplifier).

Active detector size: 1560 × 1440 pixels; 287.0 mm × 265.0 mm

Pixel Pitch: 184 μm

Line Noise Sensor Zones Left and Right of Active Area: 116 pixels wide

Total Number of Pixels: 1792 × 1440 (rows x columns)

Available Modes: binned, non-binned, zoomed

Maximum Power Dissipation: 25 W

Cooling: Conventional cooling

Typical DQE (0): 60 %

Data Output Signal: DVLV

Dynamic Range Detector: 82dB (14 bit)

Digital Exposure

Focus: 0.6 IEC

kV Range: 40 to 120 kV

mA Peak Range: 2.0 to 60.0 mA (normal digital exposure); 4.1 to 125 mA (High power digital exposure)

Maximum Power: 120 kV × 125 mA = 15000 W

Time Range: 100 to 330 ms

Waiting Time Between Loads: 2 sec (normal digital exposure); 30 sec (high power digital exposure)



Specifications

Digital Image Processor

Type: DFI-3, dedicated 16 bit video pipeline processor with real-time processing, storage and overlay

Standard Processing: Feed-forward gain control, white compression, adaptive temporal recursive noise reduction, adaptive 2D edge enhancement, blanking, video invert, digital image rotation, mirroring, view trace, manual/auto contrast/brightness

Processing options Subtraction, Roadmapping, Trace white, Trace black, Zoom, Measure, Pixel shift, Landmarking

Disk storage 2000-10000-20000 images (depending on commercial option)

Maximum storage speed: 2000 images disk; up to 15 images/s; 10000 images disk; up to 23 images/s; 20000 images disk; up to 23 images/s

External Connections at MVS: DVI-out (2 x LMON and RMON) (optional); DVI-in (1 x connected to optional internal workstation); Video out (CCIR 50 HZ or NTSC 60 Hz BNC); Video in (1x S-video); 10/100 Base T ethernet (2x hospital network and service port); USB (2 x via external hub)

Automatic Shutter Placement: Yes

MVS Monitors

Type: SXGA high brightness color TFT LCD

Size: 18" (46 cm)

Display Matrix: 1280 x 1024 (3 x 8 bit)

Nominal Light Output: 500 Cd/m²

Maximum Light Output: 720 Cd/m²

Touch screen (optional) Left monitor only, near touch, infra red (CarolTouch ELO)

Stand Monitors

Type: LCD

Size: 12 inch

Position: Rotate and tilt

Maximum Light Output: 200 Cd/m²

Display matrix 1024 x 768

Low-Dose Fluoroscopy (LDF)

Focus: 0.6 IEC

kV Range: 40 to 120 kV

mA Peak Range: 0.4 to 12.0 mA

Maximum Power: 120 kV x 12.0 mA = 1440 W

Maximum Continuous Loading Time: 10 min

Pulse Rate (Pulse Per Second) (Full, half and quarter pulse rates are available

pulse rate 12 (1/2 = 6, 1/4 = 3)

pulse rate 15 (1/2 = 8, 1/4 = 4)

pulse rate 20 (1/2 = 10, 1/4 = 5)

pulse rate 23 (1/2 = 12, 1/4 = 6)

Pulse width 10 - 27.8ms



Specifications

High-Quality Fluoroscopy (HQF)

Focus 0.6 IEC
kV range 40 to 120 kV
mA peak range 1.0 to 60.0 mA
Maximum power $120 \text{ kV} \times 60 \text{ mA} = 7200 \text{ W}$
Maximum continuous loading time 30 sec for full pulse rate
60 sec for half/quarter pulse rate
Pulse Per Second (pps) (Full, half and quarter pulse rates are available)
pulse rate 12 ($1/2 = 6$, $1/4 = 3$)
pulse rate 15 ($1/2 = 8$, $1/4 = 4$)
pulse rate 20 ($1/2 = 10$, $1/4 = 5$)
pulse rate 23 ($1/2 = 12$, $1/4 = 6$)
Pulse width 8 - 16.7 ms

High-Quality Fluoroscopy (HQF)

Focus 0.6 IEC
kV range 40 to 120 kV
mA peak range 1.0 to 60.0 mA
Maximum power $120 \text{ kV} \times 60 \text{ mA} = 7200 \text{ W}$
Maximum continuous loading time 30 sec for full pulse rate
60 sec for half/quarter pulse rate
Pulse Per Second (pps) (Full, half and quarter pulse rates are available)
pulse rate 12 ($1/2 = 6$, $1/4 = 3$)
pulse rate 15 ($1/2 = 8$, $1/4 = 4$)
pulse rate 20 ($1/2 = 10$, $1/4 = 5$)
pulse rate 23 ($1/2 = 12$, $1/4 = 6$)
Pulse width 8 - 16.7 ms

