



The **GE OEC 9800 Plus C-Arm** is a mobile c-arm that was designed with a variety of x-ray applications in mind. Some of these applications include pain management, orthopedic, vascular, neurovascular, and cardiac surgeries. The OEC 9800 offers x-ray technology with a touch screen system with low X-ray dosages and a 15kW generator. The 9800 Plus offers 1K x 1K high-resolution images, along with GE's image intelligence technology providing extraordinary crisp and clear images. Another GE C-arm is the GE OEC 9900 Elite C-Arm.

Features

- 9"/6"/4.5" Image Intensifier
- Rotating Anode X-Ray Tube
- High-Resolution CCD Camera, 1K x 1K x 12-bit Imaging
- 0.3/0.6 mm Focal Spot 5.3kW/41kW
- Dual High Resolution 16" Monitors
- Touch Screen Controls (right monitor)
- 400 Image Storage
- Patient Annotation
- 16 Image Collage
- 32 Frames Noise Reduction
- Sharpen, Negate, Zoom



Specifications

X-ray System

Generator

- 60KHZ high frequency
- 15kW power
- Up to 120kVp
- Up to 75Ma for radiographic film exposure
- Continuous high level fluoro (HLF) up to 20mA
- Digital spot up to 75mA
- Digital cine pulse
 - 15 pulses per second, 60 Hz
 - 12 pulses per second, 50 Hz
 - Up to 150mA
 - 10ms pulse width
- Full power from standard wall outlet
- Patented battery buffered design

X-ray Tube

- Rotating anode X-ray tube
- 0.3 and 0.6 nominal focal spots
- Anode heat capacity: 300,000 HU
- Anode cooling rate: 85,000 HU/min.
- Housing heat capacity: 1,600,000 HU
- 9" (23cm) Standard C-arm housing cooling rate 15,000 HU/min.
- 9" (23cm) Super C-arm and 12" (31cm) standard C-arm housing cooling rate 22,000 HU/min.

Digital Image Rotation

- Digitally adjusts image display
- Image update
 - Image rotation
 - Image reversal (*side-to-side*)
 - Image invert (*top-to-bottom*)
- Image position without additional exposure

PreView Collimator

- On-screen collimator position indication
- PreView iris collimator
- PreView Tungsten rotatable double leaf collimator
- Adjusts collimators without X-ray exposure

Fluoro Mode

- kVp range: 40 - 120
- mA range: 0.2 - 10 normal mode
0.2 - 20 HLF (*high level fluoro*)
- Auto and manual fluoro modes
- AutoTrak ABS carries mA, kVp, camera angle

Pulsed Fluoro Mode

- kVp range: 40 - 120
- mA range: 0.2 - 10
- Pulse rate: 1, 2, 4, and 8
- Pulse Width: 25 or 50ms
- AutoTrak ABS, mA, kVp, camera gain
- Reduces X-ray dose to patient and operator

High Level Pulsed Fluoro

- kVp range: 40 - 120
- mA range: 0.2 - 40
- Pulse rate: 1, 2, 4, and 8
- Pulse Width: 25 or 50ms
- AutoTrak ABS, mA, kVp, camera gain

Digital Cine Pulse Mode

- kVp range: 40 - 120
- mA range: up to 40
- Pulse rate: 15 pps (*60 Hz*), 12 pps, (*50 Hz*)
- Pulse Width: 10ms
- AutoTrak ABS, mA, kVp, camera gain

Digital Spot Mode

- kVp range: 40 - 120
- mA range: up to 75
- Automatic exposure termination and automatic image save

Radiographic Mode

- mA range: up to 75
- mAs range: up to 300
- Computer controlled exposure time
- Optional Film Casette Holder
 - 10" x 12" (*24cm x 30cm*) for 9" I.I.
 - 14" x 14" (*35cm x 35cm*) for 12" I.I.

Video Imaging System

9" Image Intensifier

- Tri-mode 9"/6"/4.5" (*23cm/15cm/11cm*) image intensifier
- Minimum central resolution (*at monitor*):
 - 9" (*23cm*): 2.1 lp/mm
 - 6" (*15cm*): 2.9 lp/mm
 - 4.5" (*11cm*): 3.4 lp/mm
- DQE: 65% (*typical*)

12" Image Intensifier

- Tri-mode 12"/9"/6" (*31cm/23cm/15cm*) image intensifier
- Minimum central resolution (*at monitor*):
 - 12" (*23cm*): 1.5 lp/mm
 - 9" (*15cm*): 2.1 lp/mm
 - 6" (*11cm*): 2.6 lp/mm
- DQE: 65% (*typical*)

AutoTrak Automatic Brightness Stabilization (ABS)

- Automatically seeks the subject anatomy anywhere within the imaging field and selects the optimum imaging technique
- Automatically adjusts to anatomical size and location
- Provides uniform image quality throughout entire image
- Simplifies operation

Image I.Q.

- Smart Window
 - Dynamically senses the collimator position and automatically adjusts brightness and contrast to produce high image quality.
- Smart Metal
 - Allows user to adjust automatic brightness and contrast sensitivity levels to metal
 - Provides optimum image quality even when metal is introduced to the field
- Tungsten Collimator
 - Denser collimator limits X-ray exposure area
 - Reduces scatter radiation
 - Improves image detail

Video Camera

- High Resolution 1k x 1k CCD camera
- Full frame capture
- Motorized rotation
- On-screen orientation indicator (*real-time feedback without fluoro*)
- Left-right image reversal
- Top-bottom image invert

Video Display

- Dual 16" (*41cm*) square monitors
- Anti-glare, progressive full frame scan monitor
- Touch screen system control
- 1,000 line high resolution monitors
- Ambient room-light compensation

Physical Specifications

	9" I.I. (23cm)	12" I.I. (31cm)	Super C 9" I.I (23cm)
Mainframe			
System length	77.8 in (197.6 cm)	81.0 in (205.7 cm)	80.1 in (203.5 cm)
System height	69.7 in (177.0 cm)	73.8 in (187.5 cm)	71.7 in (182.1 cm)
System width	33.5 in (851 mm)	33.5 in (851 mm)	33.5 in (851 mm)
Weight	610 lbs (277 kg)	660 lbs (299 kg)	630 lbs (286 kg)
C-arm			
SID	39.4 in (100.1 cm)	39.4 in (100.1 cm)	39.0 in (991 mm)
Free space in arc	31.5 in (800 mm)	31.5 in (800 mm)	31.0 in (787 mm)
Depth in arc	26.0 in (660 mm)	28.0 in (711 mm)	33.0 in (838 mm)
Orbital rotation	115° (90°/25°) 1	115° (90°/25°)	145° (90°/55°)
Lateral rotation	360° (180°/180°)	360° (180°/180°)	360° (270°/90°)
Flip/flop	180°/90°	180°/90°	N/A
Wig/wag	20°	20°	20°
Horizontal travel	8.0 in (203 mm)	8.0 in (203 mm) 8	8.0 in (203 mm)
Vertical travel	18.0 in (457 mm)	18.0 in (457 mm)	18.0 in (457 mm)
Workstation			
Length	64.25 in (163.2 cm)	64.25 in (163.2 cm)	64.25 in (163.2 cm)
Height	27.25 in (692 mm)	27.25 in (692 mm) 2	27.25 in (692 mm)
Width	27.25 in (692 mm)	27.25 in (692 mm) 2	27.25 in (692 mm)
Weight	450 lbs (204 kg)	450 lbs (204 kg)	450 lbs (204 kg)
Operating Range			
Temperature	10° to 35°C	10° to 35°C	10° to 35°C
Humidity	20% - 80%	20% - 80%	20% - 80%
Electrical Service			
100V	20 A	20 A	20 A
120V	12 A	12 A	12 A
200, 220V, 230V, 240V	10 A	10 A	10 A

