



The **GE OEC 9900 Elite C-arm** offers improved image quality and monitoring. The 9900 Elite can perform DSA (Digital Subtraction Angiography) while either moving the c-arm or the patient. The c-arm has an easy-to-use interface and a deeper arch to allow for better access to the patient for specific procedures like cardiovascular and pain management. The GE system applies algorithms and a variety of different bandwidths that are preprogrammed - this can provide improved accuracy and definition to the images. The GE 9900 Elite comes with a dual flat panel and touchscreen monitor. This makes it easier to maneuver the monitor to comfortably view the c-arm images from any angle. Another C-arm by GE is the GE OEC 9800 Plus C-Arm.

Features

- 1k2 High Resolution Imaging Chain
- Dynamic Range Management (DRM)
- Tri-Mode 9 or 12 Inch Image Intensifier
- Digital Imaging Rotation
- 1k x 1k CCD Camera
- Full Frame Capture AutoTrak
- Automatic Brightness Stabilization
- Bolus Chase Preset - 30 Pulse/second
- Recording Playback up to 30 FPS
- Dual 18-Inch Anti-Glare Touch Flat Panel Displays on an Articulating Arm
- 15kW power generator – 60kHz high frequency- Up to 120Vp
- Rotating anode X-ray tube
- Digital Image Rotation
- Fluoro Mode
- Pulsed Fluoro Mode
- High Level Pulsed Fluoro
- Digital Spot Mode
- Radiographic Mode
- Easy archiving and documentation
- Physician controlled x-ray footswitch & handswitch
- High-Power pulse anode
- Dynamic studies at up to 30 pps without motion artifact
- Dicom 3.0 – Print



Specifications

Video Monitors

- Dual 18" (46cm) display anti-glare, LCD flat panel monitors mounted on an articulating arm.
- 22" horizontal travel
- 7° up/10° down
- Monitors viewable from all four sides of workstation
- Horizontal and vertical viewing angle 170°
- 700 CD/M2 maximum brightness
- Touch screen system control
- 1280 x 1024 high resolution monitors
- Ambient room-light compensation
- Integrated color monitor for display of VGA, DVI, DVI-D, S-VHS

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 reversal

Generator

- 60 kHz high frequency
- 15 kW full-wave
- Up to 120 kVp
- Up to 75 mA for radiographic film exposure
- Continuous high level fluoro up to 20 mA
- Pulsed fluoro mode
- Pulsed fluorography mode up to 40 mA
- Digital spot up to 75 mA
- Full power from outlet:
 - 50 Hz or 60 Hz
 - 120V-12A or 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: 85,000 HU/min
- Housing heat capacity: 1,600,000 HU
- Standard housing cooling 15,000 HU/min
- Passive housing cooling system: 22,500 HU/min. (Standard on 12 inch (31 cm) I.I. systems)

PreView Collimator

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

Fluoroscopy Mode

- Focal spot: 0.3 mm
- kVp range: 40 – 120 kVp
- mA range: 0.2 – 10 mA normal mode
- mA range: 1.0 – 20 mA HLF (high level fluoro)
- Auto and manual fluoro modes
- Continuous, one-shot or pulsed operation
- AutoTrak ABS varies mA, kVp, camera gain

Pulsed Fluoroscopy Mode

- Focal spot: 0.3 mm
- kVp range: 40 – 120 kVp
- mA range: 0.2 – 10 mA
- Pulse rate: 1, 2, 4, or 8 pulses per second
- Pulse width: 25 or 50 milliseconds
- AutoTrak ABS, mA, kVp, camera gain
- Reduces X-ray dose to patient and operator

High Level Pulsed Fluoro

- Vp range: 40 – 120 kVp
- mA range: 1 – 40 mA
- Pulse width: 25 or 50 milliseconds
- Pulse rate: 1, 2, 4, or 8 pulses per second
- AutoTrak ABS, mA, kVp, and camera gain

Digital Spot Mode

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

9" Image Intensifier

- Tri-mode 9"/6"/4.5" (23cm/15cm/11cm) image intensifier
- Minimum central resolution (at monitor):
 - 9" (23cm): 2.2 lp/mm
 - 6" (15cm): 3.0 lp/mm
 - 4.5" (11cm): 3.5 lp/mm
- DQE: 65% (typical)

12" Image Intensifier

- Tri-mode 12"/9"/6" (31cm/23cm/15cm) image intensifier
- Minimum central resolution (at monitor):
 - 12" (31cm): 1.6 lp/mm
 - 9" (23cm): 2.2 lp/mm
 - 6" (15cm): 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 Quality Features

- 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
 - Dense collimator limits X-ray exposure area
 - Reduces scatter radiation
 - Improves image detail



Physical Specifications

	12" I.I. (31cm)	Super C 9" I.I. (23cm)
Mainframe		
System length	81 in (205.7 cm)	80.1 in (203.5 cm)
System height	73.8 in (187.5 cm)	71.7 in (182.1 cm)
System width	33.5 in (85.1 cm)	33.5 in (85.1 cm)
Weight	660 lbs (299 kg)	630 lbs (286 kg)
C-arm		
SID	39.4 in (100 cm)	39.4 in (100 cm)
Free space in arc	31 in (78.7 cm)	31 in (78.7 cm)
Depth in arc	28 in (71.1 cm)	33 in (83.8 cm)
Orbital rotation	120° (90°/30°) 1	145° (90°/55°)
Lateral rotation	270° (180°/90°)	360° (270°/90°)
Flip/flop	180°/90°	N/A
Wig/wag	20°	20°
Horizontal travel	8 in (20.3 cm)	8 in (20.3 cm)
Vertical travel	18 in (45.7 cm)	18 in (45.7 cm)
Workstation		
Length	27.3 in (69.3 cm)	27.3 in (69.3 cm)
Height	69 in (175.3 cm)	69 in (175.3 cm)
Width	38 in (96.5 cm)	38 in (96.5 cm)
Weight	530 lbs (240 kg)	530 lbs (240 kg)
Operating Range		
Temperature	10° to 35°C	10° to 35°C
Humidity	20% - 80%	20% - 80%
Electrical Service		
100V	20 A	20 A
120V	12 A	12 / 16A
200V	N/A	10 A

