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
- AutoTrak ABS varies mA, kVp, 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

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