The GE OEC 9800 Plus C-arm is a multi-application mobile X-ray imaging system that provides solutions for the most demanding needs in Pain Management, General, Orthopedic, Vascular, Neurovascular and Cardiac Surgeries. The GE 9800 Plus is the benchmark for fluoroscopy applications and X-ray technology with a true 1K x 1K high resolution CCD camera, touch screen operations, high image quality with low X-ray dosage, crisp clear images, superior penetration power with a 15 kW generator and excellent resolution.

Features

- Powerful 15 kW generator
- Superb image quality
- High performance rotating anode
- Different C-arm configurations
- Precise positioning
### 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 caries 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 Cassette Holder
  - 6" 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"/14.5" (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

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## Physical Specifications

### Mainframe

<table>
<thead>
<tr>
<th></th>
<th>9” I.I. (23cm)</th>
<th>12” I.I. (31cm)</th>
<th>Super C 9” I.I (23cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System length</strong></td>
<td>77.8 in (197.6 cm)</td>
<td>81.0 in (205.7 cm)</td>
<td>80.1 in (203.5 cm)</td>
</tr>
<tr>
<td><strong>System height</strong></td>
<td>69.7 in (177.0 cm)</td>
<td>73.8 in (187.5 cm)</td>
<td>71.7 in (182.1 cm)</td>
</tr>
<tr>
<td><strong>System width</strong></td>
<td>33.5 in (851 mm)</td>
<td>33.5 in (851 mm)</td>
<td>33.5 in (851 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>610 lbs (277 kg)</td>
<td>660 lbs (299 kg)</td>
<td>630 lbs (286 kg)</td>
</tr>
</tbody>
</table>

### C-arm

<table>
<thead>
<tr>
<th></th>
<th>9” I.I. (23cm)</th>
<th>12” I.I. (31cm)</th>
<th>Super C 9” I.I (23cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SID</strong></td>
<td>39.4 in (100.1 cm)</td>
<td>39.4 in (100.1 cm)</td>
<td>39.0 in (991 mm)</td>
</tr>
<tr>
<td><strong>Free space in arc</strong></td>
<td>31.5 in (800 mm)</td>
<td>31.5 in (800 mm)</td>
<td>31.0 in (787 mm)</td>
</tr>
<tr>
<td><strong>Depth in arc</strong></td>
<td>26.0 in (660 mm)</td>
<td>28.0 in (711 mm)</td>
<td>33.0 in (838 mm)</td>
</tr>
<tr>
<td><strong>Orbital rotation</strong></td>
<td>115° (90°/25°) 1</td>
<td>115° (90°/25°) 1</td>
<td>145° (90°/55°)</td>
</tr>
<tr>
<td><strong>Lateral rotation</strong></td>
<td>360° (180°/180°)</td>
<td>360° (180°/180°)</td>
<td>360° (270°/90°)</td>
</tr>
<tr>
<td><strong>Flip/flop</strong></td>
<td>180°/90°</td>
<td>180°/90°</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Wig/wag</strong></td>
<td>20°</td>
<td>20°</td>
<td>20°</td>
</tr>
<tr>
<td><strong>Horizontal travel</strong></td>
<td>8.0 in (203 mm)</td>
<td>8.0 in (203 mm)</td>
<td>8.0 in (203 mm)</td>
</tr>
<tr>
<td><strong>Vertical travel</strong></td>
<td>18.0 in (457 mm)</td>
<td>18.0 in (457 mm)</td>
<td>18.0 in (457 mm)</td>
</tr>
</tbody>
</table>

### Workstation

<table>
<thead>
<tr>
<th></th>
<th>9” I.I. (23cm)</th>
<th>12” I.I. (31cm)</th>
<th>Super C 9” I.I (23cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>64.25 in (163.2 cm)</td>
<td>64.25 in (163.2 cm)</td>
<td>64.25 in (163.2 cm)</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>27.25 in (692 mm)</td>
<td>27.25 in (692 mm)</td>
<td>27.25 in (692 mm)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>27.25 in (692 mm)</td>
<td>27.25 in (692 mm)</td>
<td>27.25 in (692 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>450 lbs (204 kg)</td>
<td>450 lbs (204 kg)</td>
<td>450 lbs (204 kg)</td>
</tr>
</tbody>
</table>

### Operating Range

<table>
<thead>
<tr>
<th></th>
<th>9” I.I. (23cm)</th>
<th>12” I.I. (31cm)</th>
<th>Super C 9” I.I (23cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td>10° to 35°C</td>
<td>10° to 35°C</td>
<td>10° to 35°C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>20% - 80%</td>
<td>20% - 80%</td>
<td>20% - 80%</td>
</tr>
</tbody>
</table>

### Electrical Service

<table>
<thead>
<tr>
<th></th>
<th>9” I.I. (23cm)</th>
<th>12” I.I. (31cm)</th>
<th>Super C 9” I.I (23cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100V</td>
<td>20 A</td>
<td>20 A</td>
<td>20 A</td>
</tr>
<tr>
<td>120V</td>
<td>12 A</td>
<td>12 A</td>
<td>12 A</td>
</tr>
<tr>
<td>200, 220V, 230V, 240V</td>
<td>10 A</td>
<td>10 A</td>
<td>10 A</td>
</tr>
</tbody>
</table>