OEC® 9900 Elite
Premium Digital Mobile C-arm
Technical Data

The OEC 9900 Elite is the gold standard in mobile fluoroscopy applications and innovative X-ray imaging technology. Built on the leadership and experience of thousands of systems installed world-wide, GE has set the standard in mobile C-arm imaging with the OEC 9900 Elite.

- True 1k² high resolution imaging technology on a mobile system.
- Featuring Precision Imaging Dynamic Range Management (DRM) for uncompromised image quality.
- Flat panel monitors on an articulating arm allow viewing of images from anywhere in the room.
- Simple user interface reduces procedure time to improve efficiency.
- Integrated surgical navigation (option).
- Preset imaging profiles optimize I.Q. by enhancing features of interest.
- Remote service connectivity.
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 or 30 pulses per second, 60 Hz - 12 or 25 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
- 0.3mm and 0.6mm focal spots
- Anode heat capacity: 300,000 HU (per IEC 60613)
- 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 all Vascular MTS and 12 inch [31 cm] I.I. systems. Optional on all other systems.)
- Active housing cooling system: 31,000 HU

Digital Image Rotation
- Digitally adjusts image display
- Automatic image update
- Image rotation
- Image reversal (side-to-side)
- Image invert (top-to-bottom)
- Image positioning 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
- 1.0 - 20 HLF (high level fluoro)
- Auto and manual fluoro modes
- AutoTrak™ ABS varies mA, kVp, camera gain

Pulsed Fluoro Mode
- kVp range: 40 - 120
- mA range: 0.2 - 10
- Pulse rate: 1, 2, 4, 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: 1 - 40
- Pulse rate: 1, 2, 4, 8
- Pulse Width: 25 or 50ms
- AutoTrak™ ABS, mA, kVp, and camera gain

Digital Cine Pulse Mode
- kVp range: 40 - 120
- mA range: up to 150
- Pulse rate: 15 or 30pps 60 Hz, 12 or 25pps 50 Hz (cardiac and endovascular systems)
- 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 - 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 the 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" [31cm]: 1.5 lp/mm - 9" [23cm]: 2.1 lp/mm - 6" [15cm]: 2.6 lp/mm
- DQE: 65% (typical)

Precision Imaging with Dynamic Range Management (DRM) enhances features of interest while attenuating background noise.
- Preset Imaging Profiles - 9800 - General - Orthopedic - Cardiac - Vascular - Bolus Chase - Spine

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 fluoror)
- Left-right image reversal
- Top-bottom image invert

Video Display
- 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, and SDI-SD formats (optional)

Configurations

GSP Platform
- 1k x 1k x 16 bit image processing
- Preset Imaging Profiles - 9800 - General - Orthopedic - Spine
- Noise filter with on-screen indicator
- Minimal difference spatio temporal noise filter (MDST)
- Real time dynamic range management (DRM)
- Automatic digital brightness and contrast control
- Manual digital brightness and contrast control
- Negate mode
- Save and auto-save feature
- Swap and auto-swap feature
- Patient information - Examination list - Customized patient information
- Customize functions - Workstation set-up - Manframe set-up - Patient information set-up - Date/time set-up - DICOM 3.0 interface set-up - Last image hold
Additional Features

9900 Elite MD C-arm - 9" or 12" I.I.
- 9°/sec. Orbital Motorized Rotation
- 9°/sec. Lateral Motorized Rotation
- RUI (Remote User Interface - Table Side Control Panel)
  - All 9900 Mainframe Controls
  - Image Review Functions
  - C-arm Motion Joystick Control
  - Motorized Vertical Lift
  - Contact/Collision Detection
  - C-arm Angle Display - real-time and saved images
  - Active X-ray tube cooling

Active X-ray Tube Cooling Option - Super C only
- Improves Anode Target (X-ray Tube) cooling capacity
- Improves X-ray tube housing (cooling)
- Increased daily patient load

Hardcopy Options
- Integrated film/paper printer
  - No film developing required
- 8" x 10" (20.3 cm x 25.5 cm) laser quality film/paper
- Multi-format, 1, 2, 4 on 1
- Multi-copy capability
- Thermal printers
- Integrated DICOM 3.0 Interface (storage class/print class/query work-list)*

User Interface
- Entire system is computer controlled and software upgradeable
- Touchscreen control simplifies operation
- Automated system operation requires minimum operator interface
- Multi-functional controls
  - Footswitch
  - IR remote (optional)
  - Hand-held control
- Simplified keyboard with integrated touchpad
- Multi-purpose image directory
  - Retrieve and review images
  - Compose hardcopy films
  - Copy images
- X-ray dose summary

Image Guidance

Tracking
- Electromagnetic sensing, armless, six degrees of freedom
- Two instruments simultaneously

Electromagnetic Field
- 0.12 Gauss at 4cm distance from transmitter (approximately 1/3 strength of the normal earth magnetic field)

Instrument Display
- Line
- Actual (includes width to scale)
- 3D CAD
- User adjustable trajectory line

Software Features
- Automatic identification of connected instruments
- Screenshot images savable to memory
- Real time display of EM field distortion
- Accuracy verification

Display
- Integrated 18" (46cm) anti-glare color LCD flat panel monitor
- 1280 x 1024 pixels, True Color
- Two image display window

Internal Hard Disk Storage Capacity
- 36 images/snapshot

Receiver/Transmitter
- IPX7 (water-tight)
- 16 FT (5 meters) cable length

Uninterruptible Power
- Orderly shutdown

Available Languages for Operator Manuals
- English
- German
- French
- Spanish
- Italian
- Portuguese (Brazilian)
- Chinese
- Japanese

Regulatory Compliance
- U.S. 21 CFR Subchapter J
- NFPA 99
- UL 60601-1 (CSA/NRTL)
- IEC60601-1 (plus relevant Collateral and Particular Standards)
- CE Marking in accordance with 93/42/EEC (Medical Devices Directive)

*DICOM options vary outside the United States.
OEC® 9900 Elite Configuration Options

The OEC 9900 Elite is available in a number of configurations, allowing you to select the product features that best meet your clinical needs:

9900 GSP
9900 ESP
9900 PMCare 8 F/S Digital Subtraction
9900 ESP 15 F/S (12 F/S @ 50 Hz)
- For orthopedics, general surgery, GI, pain management and other general applications.

Endovascular
9900 Basic vascular 8 F/S
9900 Vascular MTS 30 F/S (25 F/S @ 50 Hz)
- For vascular surgery and interventional vascular applications.
- 12/9/6” (31/23/15 cm) tri-mode image intensifier: A larger field of view than our standard 9/6/4.5” (23/15/10 cm) image intensifier, for many vascular applications or wherever a larger field of view is required.

Cardiac Surgery and Mobile Cardiac Cath lab/EP lab
9900 Cardiac 30 F/S (25 F/S @ 50 Hz)
- For complex coronary, peripheral or abdominal angiography.
- Super-C design: Larger than our standard C, the Super C design provides greater clearance and greater range of overscan for the oblique angulations required in both cardiac and spine work (9” (23 cm) I.I. only).

9900 MD C-arm
- 9°/sec. Lateral Motorized Rotation.
- 9” (23 cm) I.I., 12” (31 cm) I.I.
- RUI (Remote User Interface - Table Side Control Panel
  - All 9900 Mainframe Controls.
  - Image Review Functions.
  - C-arm Motion Joystick Control.
  - Motorized Vertical Lift.
- Contact/Collision Detection.
- C-arm Angle Display - realtime and saved images.
- Enhanced X-ray tube housing cooling system.

Integrated Surgical Navigation
- Realtime electromagnetic tracking of instruments on fluoroscopic images.
- Available on all configurations except Cardiac, MD and 12 inch.
- Ability to track two instruments simultaneously.
<table>
<thead>
<tr>
<th>Description</th>
<th>GSP</th>
<th>ESP</th>
<th>PMCare</th>
<th>Basic 8fps</th>
<th>Vascular</th>
<th>Vascular (MTS)</th>
<th>Cardiac 30fps</th>
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<tr>
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<td>Instant Film/Paper Printer</td>
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<td>Integrated DICOM 3.0 Interface (store, print, worklist query)*</td>
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</tr>
<tr>
<td>HIPAA SecureView®</td>
<td>●</td>
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*DICOM options vary outside the United States.*
## Physical Specifications

<table>
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<tbody>
<tr>
<td><strong>Mainframe</strong></td>
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</tr>
<tr>
<td>System length</td>
<td>75.9” (193cm)</td>
<td>78.8” (200cm)</td>
<td>78.3” (199cm)</td>
<td>78.3” (199cm)</td>
<td>79.4” (202cm)</td>
</tr>
<tr>
<td>System height</td>
<td>69.8” (177cm)</td>
<td>72.5” (184cm)</td>
<td>70.5” (179cm)</td>
<td>71.25” (181cm)</td>
<td>73.8” (187cm)</td>
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<tr>
<td>System width</td>
<td>33” (84cm)</td>
<td>33” (84cm)</td>
<td>33” (84cm)</td>
<td>33” (84cm)</td>
<td>33” (84cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>610 lbs (276 kg)</td>
<td>659 lbs (299 kg)</td>
<td>630 lbs (286 kg)</td>
<td>661 lbs (300 kg)</td>
<td>702 lbs (318 kg)</td>
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<tr>
<td><strong>C-arm</strong></td>
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<tr>
<td>SID</td>
<td>39.4” (100cm)</td>
<td>39.4” (100cm)</td>
<td>39” (99cm)</td>
<td>39” (99cm)</td>
<td>39” (99cm)</td>
</tr>
<tr>
<td>Free space in arc</td>
<td>31” (79cm)</td>
<td>31” (79cm)</td>
<td>31” (79cm)</td>
<td>31” (79cm)</td>
<td>31” (79cm)</td>
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<tr>
<td>Depth in arc</td>
<td>26” (66cm)</td>
<td>28” (71cm)</td>
<td>33” (84cm)</td>
<td>33” (84cm)</td>
<td>33” (84cm)</td>
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<tr>
<td>Orbital rotation</td>
<td>115° (90°/25°)</td>
<td>115° (90°/25°)</td>
<td>148° (93°/55°)</td>
<td>142° (90°/52°)</td>
<td>123° (90°/33°)</td>
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<tr>
<td>Lateral rotation</td>
<td>360° (180°/180°)</td>
<td>360° (180°/180°)</td>
<td>360° (270°/90°)</td>
<td>360° (90°/270°)</td>
<td>360° (90°/270°)</td>
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<tr>
<td>Flip/flop</td>
<td>180°/90°</td>
<td>180°/90°</td>
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<td>N/A</td>
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<tr>
<td>Wig/wag</td>
<td>20°</td>
<td>20°</td>
<td>20°</td>
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<td>Horizontal travel</td>
<td>8” (20cm)</td>
<td>8” (20cm)</td>
<td>8” (20cm)</td>
<td>4” (10cm)</td>
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<tr>
<td>Vertical travel</td>
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<td>18” (46cm)</td>
<td>18” (46cm)</td>
<td>15” (38cm)</td>
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<td><strong>Workstation</strong></td>
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<td>Height</td>
<td>68” (173cm)</td>
<td>68” (173cm)</td>
<td>68” (173cm)</td>
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<td>Width</td>
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<td>Depth</td>
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<td>27.25” (69.2cm)</td>
<td>27.25” (69.2cm)</td>
<td>27.25” (69.2cm)</td>
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<tr>
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<td>503 lbs (228 kg)</td>
<td>503 lbs (228 kg)</td>
<td>503 lbs (228 kg)</td>
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<tr>
<td>Weight (NAV)</td>
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<td><strong>Operating Range</strong></td>
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<td>Temperature</td>
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<td>10° to 35°C</td>
<td>10° to 35°C</td>
<td>10° to 35°C</td>
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<tr>
<td>Humidity</td>
<td>20% - 80%</td>
<td>20% - 80%</td>
<td>20% - 80%</td>
<td>20% - 80%</td>
<td>20% - 80%</td>
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<td><strong>Electrical Service</strong></td>
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<td>100V</td>
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<td>120V</td>
<td>12A</td>
<td>12A</td>
<td>16A</td>
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<tr>
<td>220V, 230V, 240V</td>
<td>10A</td>
<td>10A</td>
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</tr>
</tbody>
</table>

*Japan supported configuration*
Mobile C-arm (9”, 23cm I.I.)

Super C-arm (Motorized) 9” (23cm) I.I.

Mobile C-arm (12”, 31cm I.I.)

Super C-arm