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

- 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.
- 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

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: 22,500 HU/min. (Standard on 12 inch (31 cm) I.I. systems. Optional on 9 inch (23 cm) systems.

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
- 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

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

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 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 16" (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): 2.2 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 the monitor):
  - 12" (31cm): 1.6 lp/mm
  - 9" (23cm): 2.2 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
  - Spine
  - Cardiac
  - Vascular
  - Bolus Chase

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.

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 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
  - Mainframe set-up
  - Patient information set-up
  - Date/time set-up
  - DICOM interface set-up
• Last image hold
• 63 image storage
• CD/DVD burner with DICOM viewer for displaying images on PC platforms
  - 512 x 512 or 1k x 1k
• Integrated DICOM interface (store, print, worklist, and query/retrieve)
• HIPAA SecureView®
  - Password protection
  - Blank screen function
  - Delete all

ESP Platform
Includes all the GSP features and:
• 1000 image storage
• Zoom and roam function
• Image annotation
• Measurement software

ESP Platform with 15fps Digital Disk
Includes all the ESP features and:
• 15fps Dynamic digital disk (60 Hz) 12fps (50 Hz)
  - Recording/playback rate: 1, 2, 4, 8, 15fps (60 Hz) 12fps (50 Hz)
  - Automatic image playback capability
  - Frame-by-frame review
  - Recording time: 10 minutes @ 15fps (60 Hz) 12 fps (50 Hz)

PMCare Platform
Includes all the ESP features and:
• Real-time subtraction
• Digital subtraction (DSA) angio
• Peak opacification
• 8fps Dynamic digital disk
  - Recording/playback rate: 1, 2, 4, 8fps
  - Recording time: 5 minutes @ 8fps
  - Automatic image playback
  - Frame-by-frame review

Basic Vascular Platform
Includes all the PMCare features and:
• Vascular preset imaging profile
• Roadmapping
• Re-registration
• Variable landmarking
• Mask save/recall

Vascular MTS Platform
Includes all the Basic Vascular features plus Motion Tolerant Subtraction (MTS) and:
• Bolus chase preset imaging profile
• Digital cine pulse mode
• 30 pulses/sec 60 Hz (25 pulses/sec 50 Hz)
• Up to 150mA
• 10ms pulse width
• 30fps Dynamic digital disk 60 Hz (25 pulses/sec, 50 Hz)
  - Recording/playback rate: 1, 2, 4, 8, 15, 30fps 60 Hz (1, 2, 4, 8, 12, 25, 50 Hz)
  - Recording time: 10 minutes @ 30fps 60 Hz (time depends on record frame rate)
  (25 fps, 50 Hz)

Cardiac Platform with Interventional Vascular Capability
Includes all the Vascular MTS features and:
• Cardiac preset imaging profile
• Super “C” configuration (9”/23cm I.I. only)
• Single leaf curved collimator
• Three pedal footswitch

Additional Features

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 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

Uninterruptible Power
• Orderly shutdown

Electrical
• Input power (60 Hz or 50 Hz)
  - 9900 Elite
    - 120V @ 12 A
    - 200V, 220V, 230V, 240V @ 10 A

Available Languages for Operator Manuals
• English

Regulatory Compliance
• U.S. 21 CFR Subchapter J
• NFPA 99
• UL 60601-1 (CSA/NRTL)
• IEC60601-1 (plus relevant Collateral and Particular Standards)
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:

Orthopedics, General Surgery and Pain Management
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 electro magnetic tracking of instruments on fluoroscopic images.
• Available on all configurations except Cardiac, MD and 12 inch.
• Ability to track two instruments simultaneously.
## System configuration options

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<th>Description</th>
<th>GSP</th>
<th>ESP</th>
<th>PMCare 8fps</th>
<th>Basic 8fps Vascular</th>
<th>Vascular (MTS) 30fps</th>
<th>Cardiac 30fps</th>
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</thead>
<tbody>
<tr>
<td>Standard C-Arm Assembly with 9”/6”/4.5” (23/15/11cm) I.I.</td>
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<td>Standard C-Arm Assembly with 12”/9”/6” (31/23/15cm) I.I.</td>
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<td>Rotating Anode x-ray Tube</td>
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<td>Tungsten Dual-Leaf Collimator</td>
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<td>Iris Collimator</td>
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<td>Pulsed Fluoro (up to 8 PPS)</td>
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<td>Digital Subtraction (DSA)</td>
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<td>Digital Cine Pulse 15 PPS, Up to 150mA 60 Hz (12 PPS, Up to 150mA 50 Hz)</td>
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<td>Digital Cine Pulse 30 PPS, Up to 150mA 60 Hz (25 PPS, Up to 150mA 50 Hz)</td>
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<td>9800 Preset Imaging Profile</td>
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<td>Image I.Q. (Smart Window/Smart Metal)</td>
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<td>Minimal Difference Spatio Temporal Noise Filter</td>
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<td>15fps Dynamic Disk (60 Hz) 12fps Dynamic Disk (50 Hz)</td>
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<td>30fps Dynamic Disk (60 Hz) 25fps Dynamic Disk (50 Hz)</td>
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<tr>
<td>9” I.I. (23cm) Laser Aimer/Image Localizer (not available with Motorized C-arm)</td>
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<td>12” I.I. (31cm) Laser Aimer/Image Localizer (not available with Motorized C-arm)</td>
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<td>Sony UP970 Thermal Printer (prints dose summary)</td>
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<td>Sony UP990 Thermal Printer (prints dose summary)</td>
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<td>Integrated CD/DVD burner with Dicom Viewer</td>
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<td>Integrated DICOM 3.0 Interface (store, print, worklist query)*</td>
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<td>Two Pedal Footswitch</td>
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*DICOM options vary outside the United States.
### Physical Specifications

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<td><strong>Mainframe</strong></td>
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<tr>
<td>System length</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>
<td>78.3” (199cm)</td>
<td>79.4” (202cm)</td>
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<tr>
<td>System height</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>
<td>71.25” (181cm)</td>
<td>73.8” (187cm)</td>
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<tr>
<td>System width</td>
<td>33.5 in (851 mm)</td>
<td>33.5 in (851 mm)</td>
<td>33.5 in (851 mm)</td>
<td>33” (84cm)</td>
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<tr>
<td>Weight</td>
<td>610 lbs (277 kg)</td>
<td>660 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 in (100.1 cm)</td>
<td>39.4 in (100.1 cm)</td>
<td>39.0 in (991 mm)</td>
<td>39° (99cm)</td>
<td>39° (99cm)</td>
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<tr>
<td>Free space in arc</td>
<td>31.0 in (787 mm)</td>
<td>31.0 in (787 mm)</td>
<td>31.0 in (787 mm)</td>
<td>31” (79cm)</td>
<td>31” (79cm)</td>
</tr>
<tr>
<td>Depth in arc</td>
<td>26.0 in (660 mm)</td>
<td>28.0 in (711 mm)</td>
<td>33.0 in (838 mm)</td>
<td>33” (84cm)</td>
<td>33” (84cm)</td>
</tr>
<tr>
<td>Orbital rotation</td>
<td>115° (90°/25°)</td>
<td>115° (90°/25°)</td>
<td>145° (90°/55°)</td>
<td>142° (90°/52°)</td>
<td>123° (90°/33°)</td>
</tr>
<tr>
<td>Lateral rotation</td>
<td>360° (180°/90°)</td>
<td>360° (180°/180°)</td>
<td>360° (170°/90°)</td>
<td>360° (90°/270°)</td>
<td>360° (90°/270°)</td>
</tr>
<tr>
<td>Flip/flop</td>
<td>180°/90°*</td>
<td>180°/90°*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Wig/wag</td>
<td>20°*</td>
<td>20°*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Horizontal travel</td>
<td>8.0 in (203 mm)</td>
<td>8.0 in (203 mm)</td>
<td>8.0 in (203 mm)</td>
<td>8” (20cm)</td>
<td>4” (10cm)</td>
</tr>
<tr>
<td>Vertical travel</td>
<td>18.0 in (457 mm)</td>
<td>18.0 in (457 mm)</td>
<td>18.0 in (457 mm)</td>
<td>15” (38cm)</td>
<td>15” (38cm)</td>
</tr>
<tr>
<td><strong>Workstation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>68.0 in (172.7 cm)</td>
<td>68.0 in (172.7 cm)</td>
<td>68.0 in (172.7 cm)</td>
<td>68” (173cm)</td>
<td>68” (173cm)</td>
</tr>
<tr>
<td>Width</td>
<td>35.5 in (902 mm)</td>
<td>35.5 in (902 mm)</td>
<td>35.5 in (902 mm)</td>
<td>35.5” (90cm)</td>
<td>35.5” (90cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>27.3 in (693 mm)</td>
<td>27.3 in (693 mm)</td>
<td>27.3 in (693 mm)</td>
<td>27.25” (69.2cm)</td>
<td>27.25” (69.2cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>530 lbs (240 kg)</td>
<td>530 lbs (240 kg)</td>
<td>530 lbs (240 kg)</td>
<td>503 lbs (228 kg)</td>
<td>503 lbs (228 kg)</td>
</tr>
</tbody>
</table>

**Operating Range**

|                    |                |                 |                        |                                  |                                  |
|--------------------|----------------|-----------------|------------------------|                                  |                                  |
| Temperature        | 10° to 35°C    | 10° to 35°C     | 10° to 35°C            | 10° to 35°C                      | 10° to 35°C                      |
| Humidity           | 20% - 80%      | 20% - 80%       | 20% - 80%              | 20% - 80%                        | 20% - 80%                        |

**Electrical Service**

<table>
<thead>
<tr>
<th></th>
<th>120V</th>
<th>200V</th>
<th>220V, 230V, 240V</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12A</td>
<td>10A</td>
<td>10A*</td>
</tr>
<tr>
<td></td>
<td>12A</td>
<td>10A</td>
<td>10A*</td>
</tr>
<tr>
<td></td>
<td>12A</td>
<td>10A</td>
<td>10A*</td>
</tr>
<tr>
<td></td>
<td>16A</td>
<td>10A</td>
<td>10A*</td>
</tr>
<tr>
<td></td>
<td>16A</td>
<td>10A</td>
<td>10A*</td>
</tr>
</tbody>
</table>

*System in transport position.

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**Workstation**

[Diagram of physical specifications]
Mobile C-arm (9”, 23cm I.I.)

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

Motorized Super C-arm (Needs revision)

Mobile C-arm (12”, 31cm I.I.)

- Mobile C-arm (12”, 31cm I.I.)
- Mobile C-arm (12”, 31cm I.I.)
Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care “Early Health.” The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

GE Healthcare
384 Wright Brothers Drive
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