OEC® 9800 Plus
Technical Data Specifications for 60Hz Systems
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
  - 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: 70,000 HU/min. (85,000 HU/min. motorized and cardiac)
- Housing heat capacity: 1,600,000 HU
- Housing cooling 15,000 HU/min.
- Auxiliary cooling system: 22,500 HU/min. (85,000 HU/min. motorized and cardiac)
- Auxiliary cooling system: 22,500 HU/min. (Standard on all vascular 15 fps, neurovascular, cardiac and 12 inch (31 cm) I.I. systems. Optional on all other systems.)
- 31,000 HU for Cardiac Super C and motorized C-arm only.

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 HLFI (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

High Level Pulsed Fluoro
- kVp range: 40 - 120
- mA range: up to 150
- Pulse rate: 15 or 30pps (cardiac and neurovascular systems)
- 15pps (vascular systems)
- Pulse width: 10ms
- AutoTrak™ ABS, mA, kVp, camera gain

Digital Cine Pulse Mode
- kVp range: 40 - 120
- mA range: up to 150
- Pulse rate: 15 or 30pps (cardiac and neurovascular systems)
- 15pps (vascular systems)
- Pulse width: 10ms
- AutoTrak™ ABS, mA, kVp, camera gain

Digital Spot Mode
- kVp range: 40 - 120
- mA range: Up to 75
- Automatically terminates exposure with 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.

GSP Platform
- 1k x 1k x 16 bit image processing
- Noise filter with on-screen indicator
- MANRS (real-time Motion Artifact and Noise Reduction System)
- Real-time variable edge enhancement
- 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 3.0 interface set-up (optional)
- Last image hold
- 53 image storage
- Removable PC diskette image transfer and archive (floppy disk)
  - 512 x 512 or 1k x 1k
  - BMP or OEC format

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

ESP Platform with 8fps Digital Disk
Includes all the ESP features and:
- 8fps Dynamic digital disk
  - Recording/playback rate: 1, 2 , 4, 8fps
  - Recording time: 2 minutes @ 8fps

PMCare Platform*
Includes all the ESP 8fps features and:
- 15fps Dynamic digital disk
  - Recording/playback rate: 1, 2, 4, 8, 15, 30fps
  - Recording time: 10 minutes @ 15fps (time depends on record frame rate)
  - Auxiliary X-ray tube cooling

EPCare Platform*
Includes all Vascular features and:
- Super C (Motorized only)
  - Single leaf curved collimator
  - 30 fps Dynamic digital disk
  - Three pedal footswitch
  - X-ray tube heat management

Neurovascular Platform
Includes all the Vascular features and:
- 30fps Dynamic digital disk
  - Recording/playback rate: 1, 2, 4, 8, 15, 30fps
  - Recording time: 10 minutes @ 30fps

Cardiac Platform with Interventional Vascular Capability
Includes all the Neurovascular features and:
- Super "C"configuration (9/23cm I.I. only)
  - Single leaf curved collimator
  - Removable dynamic image storage
    - 2G removable media
    - 1,500 images storage capacity
    - 1k x1k or 512 x 512 static image recording in BMP/OEC format
  - Integrated DICOM 3.0 interface
  - Three pedal footswitch
  - Cardiac menu
  - X-ray tube heat management

Additional Features
9800 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 9800 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
  - X-ray tube heat management included with MD

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

Other Image Storage Options
- Removable dynamic digital disk
- CD/DVD Writer digital interface (external)
  - Integrated DICOM 3.0 interface (storage class/print class/query work-list)
- Analog memory options
  - Integrated S-VHS VCR with playback
  - DV CAM recorder

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
  - Multi-purpose image directory
  - Retrieve and review images
  - Compose hardcopy films
  - Copy images
  - X-ray dose summary

Basic Vascular Platform
Includes all the ESP features and:
- Real-time subtraction
- Roadmapping
- Peak opacification
- Re-registration
- Variable landmarking
- Auto cine loop playback
- 8fps Dynamic digital disk
  - Recording/playback rate: 1, 2, 4, 8fps
  - Recording time: 5 minutes @ 8fps
  - Automatic image playback
  - Frame-by-frame review

Vascular Platform
Includes all the Basic Vascular features and:
- Digital cine pulse mode
  - 15 pulses/sec
  - Up to 150mA
  - 10ms pulse width
- 15fps Dynamic digital disk
  - Recording/playback rate: 1, 2, 4, 8,15fps

Electrical
- Input power (60Hz or 50Hz)
- 9800 Plus (except Super C Cardiac)
  - 100V @ 20 A (Japan)
  - 120V @ 15 A
  - 200V, 220V, 230V, 240V @ 10A
- 9800 MD 9" (23cm) and 12" (31cm) only)
  - Copy images
  - Compose hardcopy films
  - Multi-copy capability
  - Multi-format, 1, 2, 4 on 1
  - 8" x 10" (20.3 cm x 25.5 cm) laser quality film/paper

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 2601 (CSA/NRTL)
- NFPA 99
- IEC60601-1 (plus relevant Collateral and Particular Standards)
- CE Marking in accordance with 93/42/EEC (Medical Devices Directive)

*PMCare & EPCare platforms are not available in all regions.
<table>
<thead>
<tr>
<th>Description</th>
<th>GSP</th>
<th>ESP</th>
<th>Basic 8fps</th>
<th>PMCare 8fps</th>
<th>Vascular 15fps</th>
<th>EP Care 30fps</th>
<th>Neuro 30fps</th>
<th>Cardiac 30fps</th>
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<tr>
<td>Standard C-Arm Assembly with 9&quot;/6&quot;/4.5&quot; (23/15/11cm) I.I.</td>
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<td>9&quot; I.I. (23cm) Laser Aimer/Image Localizer (not available with Motorized C-arm)</td>
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<td>Sony MD9500 S-VHS VCR*</td>
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* Sony MD9500 S-VHS, CD/DVD Burner or Instant film/paper printer can't be ordered in the same configuration.
## Physical Specifications

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<td>78.8&quot; (200cm)</td>
<td>78.3&quot; (199cm)</td>
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<td>System width</td>
<td>33&quot; (84cm)</td>
<td>33&quot; (84cm)</td>
<td>33&quot; (84cm)</td>
<td>33&quot; (84cm)</td>
<td>33&quot; (84cm)</td>
</tr>
<tr>
<td><strong>C-arm</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SID</td>
<td>39.4&quot; (100cm)</td>
<td>39.4&quot; (100cm)</td>
<td>39&quot; (99cm)</td>
<td>39&quot; (99cm)</td>
<td>39&quot; (99cm)</td>
</tr>
<tr>
<td>Free space in arc</td>
<td>31&quot; (79cm)</td>
<td>31&quot; (79cm)</td>
<td>31&quot; (79cm)</td>
<td>31&quot; (79cm)</td>
<td>31&quot; (79cm)</td>
</tr>
<tr>
<td>Depth in arc</td>
<td>26&quot; (66cm)</td>
<td>28&quot; (71cm)</td>
<td>33&quot; (84cm)</td>
<td>33&quot; (84cm)</td>
<td>33&quot; (84cm)</td>
</tr>
<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>
</tr>
<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>
</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>20°</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Horizontal travel</td>
<td>8&quot; (20cm)</td>
<td>8&quot; (20cm)</td>
<td>8&quot; (20cm)</td>
<td>8&quot; (20cm)</td>
<td>4&quot; (10cm)</td>
</tr>
<tr>
<td>Vertical travel</td>
<td>18&quot; (46cm)</td>
<td>18&quot; (46cm)</td>
<td>18&quot; (46cm)</td>
<td>15&quot; (38cm)</td>
<td>15&quot; (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>64&quot; (163cm)</td>
<td>64&quot; (163cm)</td>
<td>64&quot; (163cm)</td>
<td>64&quot; (163cm)</td>
<td>64&quot; (163cm)</td>
</tr>
<tr>
<td>Width</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
<td>27&quot; (69cm)</td>
</tr>
</tbody>
</table>

### Mobile C-arm (9", 23cm I.I.)

1. **Mainframe**
   - System length: 79.7" (201cm)
   - System height: 71.8" (182cm)
   - System width: 33" (84cm)

2. **C-arm**
   - SID: 39.4" (100cm)
   - Free space in arc: 31" (79cm)
   - Depth in arc: 31" (79cm)
   - Orbital rotation: 115° (90°/25°)
   - Lateral rotation: 360° (180°/180°)
   - Flip/flop: 180°/90°

### Mobile C-arm (12", 31cm I.I.)

1. **Mainframe**
   - System length: 79.8" (202cm)
   - System height: 72.5" (184cm)
   - System width: 33" (84cm)

2. **C-arm**
   - SID: 39.4" (100cm)
   - Free space in arc: 31" (79cm)
   - Depth in arc: 31" (79cm)
   - Orbital rotation: 115° (90°/25°)
   - Lateral rotation: 360° (180°/180°)
   - Flip/flop: 180°/90°
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