

XR PORT C-ARM, VAMC  
PORTLAND, OR  
PO# 648-B71022

To: **Gordon Hosoda**

**Portland VA Medical Center**  
3710 SW US Veterans Hospital Rd  
Portland, OR 97239-2964  
Phone: 5032208262

---

<i>Part Number</i>	<i>Qty</i>	<i>Product Description</i>	<i>List Price</i>	<i>Net Price</i>
	1	OEC Elite™ CFD 31 cm Digital Mobile Super C-arm Vascular MTS (Vascular MTS Platform with up to 30 fps Cine)		
	1	Sony UP-991AD, Sony Hybrid Graphic Printer		
	1	Service, Training, 2 Week, OEC Elite Technical Training		

<i>Part Number</i>	<i>Qty</i>	<i>Description</i>	<i>List Price</i>	<i>Net Price</i>
		<p><b>OEC Elite™ CFD 31 cm Digital Mobile Super C-arm Vascular MTS (Vascular MTS Platform with up to 30 fps Cine)</b></p> <p>GE OEC offers the only full size mobile C-arm family with CMOS flat detectors available in both 21 cm and 31 cm panels. The OEC Elite CFD C-arm delivers excellent clinical versatility for adult and pediatric patients during diagnostic and surgical procedures. The system features enhancements that improve surgical flow, communications, ease of use, and consistent production of high image quality at low dose. This C-arm family is ideally suited for a range of surgical needs including orthopedics, gastrointestinal, endoscopic, urologic, neurologic, vascular, critical care, and emergency procedures.</p> <p><b>31 CM CMOS FLAT PANEL DETECTOR (CFD):</b></p> <ul style="list-style-type: none"> <li>- Tri-mode 31 cm/21 cm/15 cm</li> <li>- Minimum resolution (at display): <ul style="list-style-type: none"> <li>- 31 cm: 1.8 lp/mm</li> <li>- 21 cm: 2.2 lp/mm</li> <li>- 15 cm: 2.4 lp/mm</li> </ul> </li> <li>- Active matrix: 1548 x 1524 pixels</li> <li>- DQE(0): 72% (typical)</li> <li>- Pixel pitch: 198.0 µm</li> <li>- Removable grid with on-screen detection status</li> </ul> <p><b>GENERATOR:</b></p> <ul style="list-style-type: none"> <li>- 60 kHz high frequency</li> <li>- 15 kW power</li> </ul>		

<i><b>Part Number</b></i>	<i><b>Qty</b></i>	<i><b>Description</b></i>	<i><b>List Price</b></i>	<i><b>Net Price</b></i>
		<ul style="list-style-type: none"> <li>- Up to 120 kVp</li> <li>- Continuous high level fluoroscopy (HLF) up to 20 mA</li> <li>- Pulsed HLF up to 40 mA</li> <li>- Digital spot up to 75 mA</li> <li>- Digital Cine pulse <ul style="list-style-type: none"> <li>- 15, 30 pps</li> </ul> </li> <li>- Up to 150 mA</li> <li>- 9 ms pulse width</li> <li>- Full power from standard wall outlet</li> <li>- Patented battery buffered design</li> </ul> <p>X-RAY TUBE:</p> <ul style="list-style-type: none"> <li>- Rotating anode X-ray tube</li> <li>- 0.3 mm and 0.6 mm nominal focal spots</li> <li>- Anode heat capacity: 300,000 HU</li> <li>- Anode cooling rate: 85,000 HU/min</li> <li>- Housing heat capacity: 1,600,000 HU</li> <li>- Housing cooling rate: 34,000 HU/min (405 W)</li> </ul> <p>C-ARM MECHANICS (SUPER C):</p> <ul style="list-style-type: none"> <li>- Counterbalanced, manual adjustment of lateral rotation, cephalad / caudal tilt, wig-wag, and horizontal motion</li> <li>- Low-profile tube design for better fit and movement around procedure tables</li> <li>- Dual, illuminated C-arm operator control panels</li> <li>- 360° lateral rotation (90°/270°)</li> <li>- 33.0" (84 cm) depth in arc</li> <li>- Orbital rotation 145° (55° overscan and 90° underscan)</li> <li>- 8.0" (20 cm) horizontal travel</li> <li>- Cable pushers</li> </ul> <p>COLLIMATION:</p> <ul style="list-style-type: none"> <li>- PreView Tungsten rotatable double leaf collimator</li> <li>- PreView iris collimator</li> <li>- Dense collimator limits X-ray exposure area, improves image detail, and reduces scatter radiation</li> <li>- On-screen PreView collimator position indication for adjusting collimators without X-ray exposure</li> </ul> <p>FLUOROSCOPY MODE:</p> <ul style="list-style-type: none"> <li>- kVp range: 40 – 120</li> <li>- mA range: 0.2 – 10 normal mode, 0.2 – 20 HLF</li> <li>- AutoTrak™ automatic brightness stabilization (ABS), mA, kVp</li> <li>- Auto and manual fluoroscopy modes</li> <li>- Continuous fluoroscopy (30 fps) at full resolution</li> </ul>		

<b>Part Number</b>	<b>Qty</b>	<b>Description</b>	<b>List Price</b>	<b>Net Price</b>
		<ul style="list-style-type: none"> <li>- Low dose mode</li> </ul> <p>PULSED FLUOROSCOPY MODE:</p> <ul style="list-style-type: none"> <li>- kVp range: 40 – 120</li> <li>- mA range: 0.2 – 10 normal mode, 0.2 – 40 HLF</li> <li>- AutoTrak™ automatic brightness stabilization (ABS), mA, kVp</li> <li>- Pulse rate: 4, 8, 15 pps</li> <li>- Pulse width: 20 ms to 50 ms</li> <li>- Auto and manual pulsed fluoroscopy modes</li> <li>- Reduces X-ray dose to patient and operator</li> <li>- Low dose mode</li> </ul> <p>DIGITAL CINE PULSE MODE:</p> <ul style="list-style-type: none"> <li>- kVp range: 40-120</li> <li>- mA range: Up to 150</li> <li>- Pulse rate: 15, 30 pps</li> <li>- Pulse width: 9 ms</li> <li>- Autotrak ABS, mA, kVp</li> </ul> <p>DIGITAL SPOT MODE:</p> <ul style="list-style-type: none"> <li>- kVp range: 40 – 120</li> <li>- mA range: Up to 75</li> <li>- Automatic exposure termination</li> <li>- Automatic image save</li> </ul> <p>IMAGE PROCESSING:</p> <ul style="list-style-type: none"> <li>- Smart Window <ul style="list-style-type: none"> <li>- Dynamically senses the collimator position and automatically adjusts image brightness and contrast</li> </ul> </li> <li>- Smart Metal <ul style="list-style-type: none"> <li>- Adjusts brightness and contrast automatically and allows user to adjust sensitivity levels for optimum image quality even when metal is introduced into the field</li> </ul> </li> <li>- AutoTrak Automatic Brightness Stabilization (ABS) <ul style="list-style-type: none"> <li>- Automatically seeks the subject anatomy anywhere within the imaging field</li> <li>- Selects the optimum imaging technique by varying mA, kVp, and gain</li> <li>- Automatically adjusts to anatomical size and location</li> <li>- Provides uniform image quality throughout the entire image</li> </ul> </li> </ul> <p>TECHVIEW MONITOR:</p> <ul style="list-style-type: none"> <li>- 10.4" (26 cm) display, LCD flat panel monitor mounted on mainframe</li> </ul>		

<i><b>Part Number</b></i>	<i><b>Qty</b></i>	<i><b>Description</b></i>	<i><b>List Price</b></i>	<i><b>Net Price</b></i>
		<ul style="list-style-type: none"> <li>- 270° side/ side rotation</li> <li>- 30° up/ 5° down tilt</li> <li>- Horizontal viewing angle 80°</li> <li>- Vertical viewing angle 70°</li> <li>- 800 x 600 resolution monitor</li> </ul>		
		<p>4K DISPLAY MONITOR:</p> <ul style="list-style-type: none"> <li>- 32" (81 cm) Ultra high definition (UHD) color display</li> <li>- Anti-reflection, anti-fingerprint</li> <li>- Optically bonded cover glass</li> <li>- Monitor mounted on an articulating arm <ul style="list-style-type: none"> <li>- 45" (114 cm) horizontal travel</li> <li>- 17" (43 cm) vertical travel</li> <li>- 27" (69 cm) forward travel</li> </ul> </li> <li>- 5° up/ 5° down tilt</li> <li>- Display viewable from all four sides of workstation <ul style="list-style-type: none"> <li>- Horizontal and vertical viewing angle 170°</li> </ul> </li> <li>- 600 cd/m2 maximum brightness</li> <li>- Touchscreen system control</li> <li>- 3840 x 2160 UHD display</li> <li>- Integrated PIP window to display color DVI-D input</li> </ul>		
		<p>USER INTERFACE:</p> <ul style="list-style-type: none"> <li>- Touchscreen control simplifies operation</li> <li>- Automated system operation requires minimum operator interface <ul style="list-style-type: none"> <li>- Multi-functional controls <ul style="list-style-type: none"> <li>- Footswitch</li> <li>- Handheld control</li> </ul> </li> <li>- Physical keyboard with integrated touchpad <ul style="list-style-type: none"> <li>- Sealed silicone design for dust-free, contaminant-free, and water-resistant use</li> </ul> </li> <li>- Physical image control keypad</li> <li>- On-screen virtual keyboard and image control keypad <ul style="list-style-type: none"> <li>- Multi-purpose image directory <ul style="list-style-type: none"> <li>- Retrieve and review images</li> <li>- Copy image(s)</li> <li>- Manually delete image(s)</li> </ul> </li> <li>- Exams <ul style="list-style-type: none"> <li>- Patient centric view of exams</li> <li>- Manually delete exam(s)</li> <li>- Display multi-modality exams</li> <li>- View older exams</li> <li>- Search saved/ scheduled exams</li> </ul> </li> </ul> </li> <li>- Integrated DICOM interface <ul style="list-style-type: none"> <li>- Storage commit, store, query, retrieve,</li> </ul> </li> </ul> </li></ul>		

<b>Part Number</b>	<b>Qty</b>	<b>Description</b>	<b>List Price</b>	<b>Net Price</b>
		modality, worklist, and print - Queue DICOM store, storage commit, and print requests for later transmission - Retrieve Modality Worklist (MWL) referenced studies from PACS with one button press - On-board IT diagnostic support for DICOM transfer - Radiation dose structured report (RDSR) - X-ray dose summary - Room-in-use indicator interface - SmartConnect allows workstation to operate independently of C-arm and connect/ disconnect C- arm when needed - 3 position X-ray and motion keyswitch - X-rays and lift movement are disabled - X-rays and lift movement are enabled - X-rays are disabled and lift movement is enabled  DIGITAL IMAGE ROTATION: - Digitally adjusts image display for live and last image hold - Automatic image update preserves image orientation settings applied during live and last image hold for subsequent images - Image rotation - Live and last image hold rotated in real-time - On-screen display of rotation degrees - Image reversal (left-to-right) - Image invert (top-to-bottom) - On-screen orientation indicator (real-time feedback without fluoroscopy) - Fully digital with precise 1° rotation increments or auto-repeat for quick rotation  VASCULAR MTS SOFTWARE PACKAGE: - 1.5k x 1.5k x 16 bit image processing - Precision imaging with General-Purpose Dynamic Range Management (GDRM) enhances anatomy of interest while attenuating background features - Pre-set imaging profiles - General - Orthopedic - Spine - Vascular - Bolus Chase with Motion Tolerant Subtraction (MTS) - Noise filter with on-screen indicator - Minimal difference spatiotemporal noise filter (MDST)		

<b>Part Number</b>	<b>Qty</b>	<b>Description</b>	<b>List Price</b>	<b>Net Price</b>
		<ul style="list-style-type: none"> <li>- Automatic and manual digital brightness and contrast control</li> <li>- Negate mode</li> <li>- Save/ auto-save feature</li> <li>- Swap/ auto-swap feature</li> <li>- Patient information: Examination list, customized patient information</li> <li>- Set-up functions: Acquisitions, Image Profile, DICOM, Network, Regional, Security, Utilities</li> <li>- Last image hold</li> <li>- 40,000 image storage</li> <li>- USB export with DICOM viewer for displaying images on PC platforms <ul style="list-style-type: none"> <li>- Full-size or half-size</li> <li>- Web viewable</li> <li>- JPEG and BMP</li> <li>- DICOM compatible</li> <li>- OEC compatible</li> <li>- De-identify DICOM images</li> <li>- Remove patient information</li> </ul> </li> <li>- HIPAA SecureView: Password protection, blank screen function, delete all patient information</li> <li>- Zoom and pan function</li> <li>- Image annotation</li> <li>- Measurement: Distance, angles, percent stenosis</li> <li>- Digital image rotation</li> <li>- Real-time digital subtraction (DSA)</li> <li>- Peak opacification</li> <li>- Roadmapping</li> <li>- Re-registration</li> <li>- Variable landmarking</li> <li>- Mask save/ recall</li> <li>- Digital Cine pulse mode <ul style="list-style-type: none"> <li>- 15, 30 pps</li> <li>- Up to 150 mA</li> <li>- 9 ms pulse width</li> </ul> </li> <li>- Up to 30 fps Cine <ul style="list-style-type: none"> <li>- Recording/ playback rate: 4, 8, 15, 30 fps</li> <li>- Minimum recording time: 60 minutes</li> <li>- Automatic image playback</li> <li>- Frame-by-frame review</li> </ul> </li> </ul>		
		<b>HARDCOPY/CONNECTIVITY:</b> <ul style="list-style-type: none"> <li>- Wired Ethernet</li> <li>- USB data transfer</li> <li>- DVI-I output <ul style="list-style-type: none"> <li>- Full screen (requires DVI-I dual link cable)</li> <li>- 2560 x 1600</li> <li>- 2560 x 1440</li> </ul> </li> </ul>		

<i><b>Part Number</b></i>	<i><b>Qty</b></i>	<i><b>Description</b></i>	<i><b>List Price</b></i>	<i><b>Net Price</b></i>
		<ul style="list-style-type: none"> <li>- 2048 x 1536</li> <li>- 1920 x 1200</li> <li>- 1920 x 1080</li> <li>- Left screen only</li> <li>- 1280 x 1024 for input to a separate OEC</li> </ul>		
		Elite workstation or OEC 9900 Elite workstation		
		<ul style="list-style-type: none"> <li>- Integrated film/ paper printer (optional)</li> <li>- Thermal printers</li> </ul>		
		C-ARM POSITIONING AIDES:		
		<ul style="list-style-type: none"> <li>- Integrated laser aimer Class IIIa/3R</li> <li>- Motorized vertical lift</li> </ul>		
		UNINTERRUPTIBLE POWER:		
		<ul style="list-style-type: none"> <li>- Controlled shutdown</li> <li>- Power monitoring and display</li> <li>- Accidental power loss protection</li> <li>- 20 second battery back-up power to workstation and C-arm</li> </ul>		
		REGULATORY COMPLIANCE:		
		<ul style="list-style-type: none"> <li>- U.S. 21 CFR Subchapter J</li> <li>- NFPA 99</li> <li>- ANSI/AAMI 60601-1 (CSA/NRTL)</li> <li>- IEC 60601-1 (plus relevant Collateral and Particular Standards)</li> </ul>		
		WARRANTY:		
		<ul style="list-style-type: none"> <li>- One Year Warranty</li> </ul>		
		OEC CLINICAL EXCELLENCE ONSITE TRAINING:		
		<ul style="list-style-type: none"> <li>- On-line training material is available at the commencement of the warranty period.</li> <li>- Up to three days* of onsite in-service by our ARRT certified Clinical Imaging Specialists (CIS) during the one-year warranty period.</li> <li>- Post-training skills assessment &amp; test</li> <li>- Participants may be eligible for Continuing Education (CE) credits from the American Society of Radiologic Technologists**</li> </ul>		
		NOTES: OEC Clinical Excellence Onsite Training		
		* Onsite training provided from 8am to 5pm, Monday through Friday. Includes all CIS travel and living expenses.		
		** Training produces the best results when a dedicated core group of technologists complete the session and are observed performing clinical cases with the product. Those who complete the entire OEC Clinical Excellence curriculum should be		



<i><b>Part Number</b></i>	<i><b>Qty</b></i>	<i><b>Description</b></i>	<i><b>List Price</b></i>	<i><b>Net Price</b></i>
		competent to perform the tasks required for basic operation of the system. Competency will be measured through a skills assessment completed while the CIS is on-site.		
	1	<b>Sony UP-991AD, Sony Hybrid Graphic Printer</b>		
	1	<b>Service, Training, 2 Week, OEC Elite Technical Training</b>		