

DEL. TO: NLR BD182/MEDICINE SERVICE

SHIP TO:  
CHIEF, LOGISTIC/NLR B80024  
V.A. Medical Center  
VAMC EUGENE TOWBIN  
2200 FORT ROOTS DRIVE  
BLDG 182 WAREHOUSE  
N. LITTLE ROCK, AR 72114-1706

P.O.# 598-B80024

<b><i>Qty</i></b>	<b><i>Product Description</i></b>
1	OEC Elite™ CFD 31 cm Digital Mobile Ergo C-arm Vascular 15 (Vascular 15 Platform with up to 15 fps Cine)
1	Sony UP-991AD, Sony Hybrid Graphic Printer
1	WIRELESS FOOT SWITCH KIT, OEC ELITE

***Optional Items\****

- |   |                                                                                                                       |
|---|-----------------------------------------------------------------------------------------------------------------------|
| 1 | OEC Elite™ Software Package Upgrade: Vascular 15 to<br>Vascular MTS (Vascular MTS Platform with up to 30 fps<br>Cine) |
|---|-----------------------------------------------------------------------------------------------------------------------|

<b>Qty</b>	<b>Description</b>
1	<p><b>OEC Elite™ CFD 31 cm Digital Mobile Ergo C-arm Vascular 15 (Vascular 15 Platform with up to 15 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>31 CM CMOS FLAT PANEL DETECTOR (CFD):</p> <ul style="list-style-type: none"> <li>- Tri-mode 31 cm/21 cm/15 cm</li> <li>- Minimum resolution (at display):</li> <li>- 31 cm: 2.7 lp/mm</li> <li>- 21 cm: 2.8 lp/mm</li> <li>- 15 cm: 2.9 lp/mm</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>GENERATOR:</p> <ul style="list-style-type: none"> <li>- 60 kHz high frequency</li> <li>- 15 kW power</li> <li>- Up to 120 kVp</li> </ul>

<b>Qty</b>	<b>Description</b>
	<ul style="list-style-type: none"> <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</li> <li>- 15 pps</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: 22,500 HU/min (268 W)</li> </ul> <p>C-ARM MECHANICS (ERGO C):</p> <ul style="list-style-type: none"> <li>- Counterbalanced, manual adjustment of lateral rotation, patented flip-flop C-arm reversal (SmartView), 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>- Lateral rotation: 360° (180°/180°)</li> <li>- L-arm flip-flop rotation: 360° (180°/180°)</li> <li>- Lowest lateral height: 39.0" (99 cm)</li> <li>- Depth in arc: 26.5" (67 cm)</li> <li>- Orbital rotation: 152° (55° overscan and 97° underscan)</li> <li>- Horizontal travel: 8.0" (20 cm)</li> <li>- Variable friction C-arm locks</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> </ul>

<b>Qty</b>	<b>Description</b>
	<ul style="list-style-type: none"> <li>- Auto and manual fluoroscopy modes</li> <li>- Continuous fluoroscopy (30 fps) at full resolution</li> <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 – 28 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: 19 ms to 34 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 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</li> <li>- Dynamically senses the collimator position and automatically adjusts image brightness and contrast</li> <li>- Smart Metal</li> <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> <li>- AutoTrak Automatic Brightness Stabilization (ABS)</li> <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> <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>

<b>Qty</b>	<b>Description</b>
	<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</li> <li>- 45" (114 cm) horizontal travel</li> <li>- 17" (43 cm) vertical travel</li> <li>- 27" (69 cm) forward travel</li> <li>- 5° up/ 5° down tilt</li> <li>- Display viewable from all four sides of workstation</li> <li>- Horizontal and vertical viewing angle 170°</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</li> <li>- Multi-functional controls</li> <li>- Footswitch</li> <li>- Handheld control</li> <li>- Physical keyboard with integrated touchpad</li> <li>- Sealed silicone design for dust-free, contaminant-free, and water-resistant use</li> <li>- Physical image control keypad</li> <li>- On-screen virtual keyboard and image control keypad</li> <li>- On-screen free hand image marking</li> <li>- Mark or draw on images directly</li> <li>- Multi-purpose image directory</li> <li>- Retrieve and review images</li> <li>- Copy image(s)</li> <li>- Manually delete image(s)</li> <li>- Exams</li> <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> <li>- Integrated DICOM interface</li> <li>- Storage commit, store, query, retrieve, modality, worklist, and print</li> </ul>

<b>Qty</b>	<b>Description</b>
	<ul style="list-style-type: none"> <li>- Queue DICOM store, storage commit, and print requests for later transmission</li> <li>- Retrieve Modality Worklist (MWL) referenced studies from PACS with one button press</li> <li>- On-board IT diagnostic support for DICOM transfer</li> <li>- Radiation dose structured report (RDSR)</li> <li>- X-ray dose summary</li> <li>- Room-in-use indicator interface</li> <li>- SmartConnect allows workstation to operate independently of C-arm and connect/ disconnect C-arm when needed</li> <li>- 3 position X-ray and motion keyswitch</li> <li>- X-rays and lift movement are disabled</li> <li>- X-rays and lift movement are enabled</li> <li>- X-rays are disabled and lift movement is enabled</li> </ul> <p>DIGITAL IMAGE ROTATION:</p> <ul style="list-style-type: none"> <li>- Digitally adjusts image display for live and last image hold</li> <li>- Automatic image update preserves image orientation settings applied during live and last image hold for subsequent images</li> <li>- Image rotation</li> <li>- Live and last image hold rotated in real-time</li> <li>- On-screen display of rotation degrees</li> <li>- Image reversal (left-to-right)</li> <li>- Image invert (top-to-bottom)</li> <li>- On-screen orientation indicator (real-time feedback without fluoroscopy)</li> <li>- Fully digital with precise 1° rotation increments or auto-repeat for quick rotation</li> </ul> <p>VASCULAR 15 SOFTWARE PACKAGE:</p> <ul style="list-style-type: none"> <li>- 1.5k x 1.5k x 16 bit image processing</li> <li>- Precision imaging with General-Purpose Dynamic Range Management (GDRM) enhances anatomy of interest while attenuating background features</li> <li>- Pre-set imaging profiles</li> <li>- 9900</li> <li>- General</li> <li>- Orthopedic</li> <li>- Spine</li> <li>- Vascular</li> <li>- Noise filter with on-screen indicator</li> <li>- Minimal difference spatiotemporal noise filter (MDST)</li> <li>- Automatic and manual digital brightness and contrast control</li> <li>- Negate mode</li> <li>- Save/ auto-save feature</li> </ul>

<b>Qty</b>	<b>Description</b>
	<ul style="list-style-type: none"> <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</li> <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> <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</li> <li>- 15 pps</li> <li>- Up to 150 mA</li> <li>- 9 ms pulse width</li> <li>- Up to 15 fps Cine</li> <li>- Recording/ playback rate: 4, 8, 15 fps</li> <li>- Minimum recording time: 60 minutes</li> <li>- Automatic image playback</li> <li>- Frame-by-frame review</li> </ul> <p>HARDCOPY/CONNECTIVITY</p> <ul style="list-style-type: none"> <li>- Ethernet, one port</li> <li>- Room interface, one port</li> <li>- Video Output: <ul style="list-style-type: none"> <li>- DVI-I (full screen requires dual link cable), one port</li> <li>- Display port interfaces (configurable to left, right, full screen), two ports</li> </ul> </li> <li>- Video Input: <ul style="list-style-type: none"> <li>- DVI-D interface (PIP displays on right screen), one port</li> </ul> </li> <li>- USB, three ports</li> <li>- Wireless Data Transfer (optional)</li> </ul>

<b>Qty</b>	<b>Description</b>
	<ul style="list-style-type: none"> <li>- Dual Band (2.4 GHz and 5 GHz)</li> <li>- Enterprise security: WPA, WPA2, PEAP</li> <li>- Printers: Integrated film/paper/thermal (optional)</li> </ul> <p>C-ARM POSITIONING AIDES:</p> <ul style="list-style-type: none"> <li>- Integrated laser aimer Class IIIa/3R</li> <li>- Motorized vertical lift</li> </ul> <p>UNINTERRUPTIBLE POWER:</p> <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> <p>REGULATORY COMPLIANCE:</p> <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> <p>WARRANTY:</p> <ul style="list-style-type: none"> <li>- One Year Warranty</li> </ul> <p>OEC CLINICAL EXCELLENCE ONSITE TRAINING:</p> <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> <p>NOTES: OEC Clinical Excellence Onsite Training</p> <p>* Onsite training provided from 8am to 5pm, Monday through Friday. Includes all CIS travel and living expenses.</p> <p>** 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 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.</p>
1	<b>Sony UP-991AD, Sony Hybrid Graphic Printer</b>



<b>Qty</b>	<b>Description</b>
1	Graphic Hybrid Printer: Analog video and digital USB 2.0 interfaces; Excellent print quality and contrast; Front panel LCD display for easy operation; Fast print speed; Multiple images per sheet (two, four, six); Fully automatic cutter; Compact design for easy integration into workstation cart <b>WIRELESS FOOT SWITCH KIT, OEC ELITE</b>

## Optional Items

<b>Qty</b>	<b>Description</b>
1	OEC Elite™ Software Package Upgrade: Vascular 15 to Vascular MTS (Vascular MTS Platform with up to 30 fps Cine)