

VAMC ALBANY, NY  
PO# 528-B33012

Trade in of AMX 700 portable  
xray machine  
BOC: 313 0 FMS LINE: 002

Qty

Description

1

**Optima XR220amx - 30Kw and RRA/APA**

Customer Loyalty Upgrade Optima XR220amx Digital Mobile Radiographic system - with 30kW generator

The Optima XR220amx is a self-contained battery operated mobile radiographic digital X-Ray imaging system designed for performing radiographic exams at the point of care

**Key Features**

- 30kW generator
- Wireless Digital Detector with 6:1 removable grid, back-up tether, QAP (Quality Assurance Proceedure)
- Dose Area Product Meter (DAP)
- Capable of 100-240V nominal, 50/60 Hz operation
- Stand-by mode to eliminate boot up cycles and allow exposure within 25 seconds
- Exposures can be taken and processed while the unit is charging
- Detector battery charges automatically while the detector is in the bin
- Optimized GUI - Technique, image acquisition and display tools in a single integrated user interface
- The detector can be used in additional wireless enabled GE radiographic systems; please refer to the current literature for system compatibility

**Productivity**

- Up to 1,200 w of power available to minimize charge time
- System can be driven within 4 seconds of activation
- Pre-programmed techniques per anatomy and patient size
- Systems can be used without the detector
- Modality Perform Procedure Step (MPPS; SPS/PPS configurable)
- Automated and customizable image transfer to PACS and printers
- Can reprocess images post acquisition and during an exam
- Usage reporting tools by individuals and user groups
- System Health dashboard for system status
- Bin stores detector and grid
- Built-in storage for cleaning wipes, gloves and lead apron
- Self-propelled single drive handle control with variable speed of up to 5 km/h (3.1 mph on flat surfaces) forward and reverse to automatically

---

Qty

Description

---

adjusts to the operator's pace

Wireless Digital Detector Specifications

- Detector battery can take up to 45 exposures per hour and provide enough power for 3 hours of use on a single charge
- Single panel (non-tiled) amorphous silicon detector with a Cesium Iodide scintillator
- Image area 40.4cm x 40.4cm.(15.9in x 15.9in)
- Active matrix 2022 x 2022 pixels
- 8mb raw image file size
- Pixel Pitch 200 microns
- Typical upper dynamic range 7.8mR
- Typical DQE @ 0lp/mm: (68%)
- Two handgrips
- Dimensions: L 23.1in., H 17.8in.,  
T 0.94in. (L 580mm, H 452mm, T 24mm)
- Wireless point-to-point network between the system and detector for transferring image data
  - Communication over wide 500MHz channels to achieve very high data rates
  - Designed to co-exist with 802.11 networks without interference
  - Frequency: 3.1-10.6 GHz Max Power Output: -41.3 dBm
  - Max PHY Data rate: 480 Mbps
  - Effective Throughput: 30-70 Mbps Worklist can be retrieved from HIS/RIS systems and images can be transmitted through the DICOM interface to printers, archival devices (PACS) servers or review workstations
- RJ45 10/100/1000 Base T Ethernet port

Please refer to the DICOM conformance statement for complete definition of supported DICOM services.

Generator

- 300 mA maximum
- kVp and mAs controls
- Less than 2% low frequency ripple
- Frequency: greater than 100 kHz, super resonant inverter with varying frequency

Qty	Description
	<p>X-ray Source</p> <ul style="list-style-type: none"> <li>Nominal Tube Voltage (radiographic) ~ 150kV</li> <li>Nominal Focal Spot size (IEC 60336) <ul style="list-style-type: none"> <li>Large Focus - 1.3 mm</li> <li>Small Focus - 0.6 mm</li> </ul> </li> <li>Anode Rotation Speed (minimal): 3200 min</li> <li>Permanent Filtration: 0.9 mm Al/75 kV IEC60522: 1999</li> <li>Maximum X-ray Tube Current <ul style="list-style-type: none"> <li>Large Focus: 500 mA</li> <li>Small Focus: 200 mA</li> </ul> </li> <li>Maximum Continuous Heat Dissipation: Without Air-circulator: 170W (238 HU/s)</li> </ul> <p>Collimator</p> <p>A pair of independent collimator blades control the X-ray field</p> <ul style="list-style-type: none"> <li>180 lux (1000 Lumen/mt<sup>2</sup>) light field lamp</li> <li>The collimator rotates plus and minus 180 degrees with detents at -180, -90, 0, +90 and +180 degrees</li> <li>Full 43cm x 43cm (17 in.) coverage at a 100cm SID The column may be rotated up to plus or minus 270 degrees from the park position</li> <li>Drive Inhibit keypad access</li> <li>Password protected access to patient information for compliance with confidentiality regulations</li> <li>Automatic safety brake: Operator must hold drive handle to allow system movement</li> <li>Integrated front bumper stops unit and activates brakes when activated</li> </ul>
1	<p>Wireless Connectivity for Optima XR220amx and Optima XR200amx</p> <p>802.11 a/b/g n-compatible wireless connectivity to hospital network</p> <p>Wi-Fi Certified</p> <p>Compatible with:</p> <ul style="list-style-type: none"> <li>802.11i, Wi-Fi Protected Access 2 (WPA2), WPA 802.1X</li> <li>AES - TKIP</li> <li>64-, 128-WEP</li> <li>VPN: IPSec - IKE</li> </ul>

Qty	Description
	<ul style="list-style-type: none"> <li>• Management Frame Protection (MFP) EAP Types: <ul style="list-style-type: none"> <li>- LEAP</li> <li>- LEAP + 128-WEP</li> <li>- LEAP + WPA</li> <li>- EAP - TLS</li> <li>- EAP-TTLS/MSCHAPv2</li> <li>- EAP-FAST</li> <li>- PEAP-GTC</li> <li>- PEAP/MSCHAPv2</li> </ul> </li> </ul>
1	Auto Protocol Assist for Optima XR200amx and Optima XR220amx
1	Repeat/Reject Analysis for Optima XR220amx/Upgraded Optima XR200amx
1	<p>Guidelines and Requirements</p> <ul style="list-style-type: none"> <li>• Artwork must be provided in a file format suitable for graphic design production, such as Adobe Illustrator, Photoshop, InDesign, etc.</li> <li>• JPEG, PDF, or TIFF files may be acceptable if they meet the size and resolution requirements of 300 dpi resolution</li> <li>• Graphic will be sized to fit the mobile X-ray side panel: 26" W x 35" H</li> <li>• Customer must own the image rights or the copyright to use the image</li> <li>• If the customer has a conceptual idea, but does not have the actual high resolution graphic as part of the customization process GE Healthcare can provide image-searching/purchasing services from stock-photograph agencies. There is an additional charge for this service.</li> <li>• Artwork must be consistent with GEHC branding guidelines and must pass a cursory GE design review GEHC (Global Design and Marketing) reserves the rights to reject any artwork submitted</li> <li>• Recommended artwork/themes include: facility/institution logos, letter or number reflecting building location, department or floor, abstract graphic design images, etc</li> <li>• All requests require a signed Order Form Order forms can be obtained by calling an Accessories Customer Service Representative at 1800-558-5102 opt 2, opt 1, or visit SMART or SupportCentral to download the form</li> <li>• All artwork must be accompanied by a Purchase Order</li> </ul>

Qty	Description
1	<p data-bbox="495 415 1209 447">Optima XR220amx Upgrade Training: 3 Days Onsite (2 Days + 1 Day)</p> <p data-bbox="495 464 1258 527">One 2 day and one 1 day TiP onsite training visit for Optima XR200amx to Optima XR220amx upgrade.</p> <p data-bbox="495 543 1128 575">Includes T&amp;L expenses. Days provided in two customer visits.</p> <p data-bbox="495 592 1274 655">This training program must be scheduled and completed within 12 months after the date of product delivery.</p>

## Options

(These items are not included in the total quotation amount)

Qty	Description
1	<p><b>Optima XR220amx - 30Kw and RRA/APA</b>            Optima XR220AMX, XR200AMX, &amp; Brivo XR285AMX Full Service Training (Class/Lab) (3 Days)</p> <p>This service training class covers all three mobile X-ray systems Optima XR220AMX, XR200AMX, and Brivo XR285AMX. Engineer must have completed XR Basic Service R0182RY &amp; R0181RY or equivalent experience before attending this course. This course must be taken within 2 years from the purchase date.</p>
3	<p>Meals and Lodging Expense has been developed to allow the customer the convenience of prepaying for their meals and lodging expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI.</p> <p>The price of this convenience is based on a per day basis. Thus a quantity of 1 is equal to 1 day's meals and lodging expense. When purchasing the meals and lodging expense please be mindful of weekend days during the training stay and include 2 days to cover a weekend in the purchase quantity.</p> <p>Examples: A 5-day course needs a quantity of 5. Any course longer than 5 days should include 2 days to account for the weekend stay. Any course longer than 10 days will require an additional 4 days of the meals and lodging expense to cover the 2 weekends of the stay. Thus a 15-day course would have a quantity of 19 days to cover the 2 weekends of the stay. This expense must be used within 2 years from the purchase date.</p> <p>Three meals a day Monday thru Thursday, 2 meals on Friday, plus breaks are provided in the onsite cafeteria. The GE Healthcare Institute cafeteria closes Friday after lunch and reopens Monday morning for breakfast. Weekend meals are the responsibility of the customer.</p> <p>Only for In-resident courses to be taken at the GE Healthcare Institute.</p>
1	<p>The AIRFARE EXPENSE has been developed to allow the customer the convenience to prepay their roundtrip Airfare expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI. To be used for engineers attending In-Resident Class/Lab courses for Diagnostic Imaging.</p>

Qty	Description
	Customer will make their Airfare arrangements thru the GE Travel Center. Specific directions will be provided to the customer upon confirmation of class. Please note that this expense must be used within 2 years of the purchase date