

649-B77012 XR PORT X RAY  
VAMC Prescott, AZ

Item No.	Qty	Catalog No.	Description	Ext Sell Price
			<b>Optima XR220amx</b>  Optima XR220amx 30kW  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 <ul style="list-style-type: none"><li>• 30kW generator</li><li>• Wireless Digital Detector with 6:1 removable grid, back-up tether, QAP (Quality Assurance Proceedure)</li><li>• Dose Area Product Meter (DAP)</li><li>• Capable of 100-240V nominal, 50/60 Hz operation</li><li>• Stand-by mode to eliminate boot up cycles and allow exposure within 25 seconds</li><li>• Exposures can be taken and processed while the unit is charging</li><li>• Detector battery charges automatically while while the detector is in the bin</li><li>• Optimized GUI - Technique, image acquisition and display tools in a single integrated user interface</li><li>• The detector can be used in additional wireless enabled GE radiographic systems: please refer to the current literature for system compatibility</li></ul> Productivity <ul style="list-style-type: none"><li>• Up to 1,200 w of power available to minimize charge time</li><li>• System can be driven within 4 seconds of activation</li><li>• Pre-programmed techniques per anatomy and patient size</li><li>• Systems can be used without the detector</li><li>• Modality Perform Procedure Step (MPPS; SPS/PPS configurable)</li><li>• Automated and customizable image transfer to PACS and printers</li><li>• Can reprocess images post acquisition and during an exam</li></ul>	

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			<ul style="list-style-type: none"> <li>Usage reporting tools by individuals and user groups</li> <li>System Health dashboard for system status</li> <li>Bin stores detector and grid</li> <li>Built-in storage for cleaning wipes, gloves and lead apron</li> <li>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 adjusts to the operator's pace</li> </ul>	
			<p>Wireless Digital Detector Specifications</p> <ul style="list-style-type: none"> <li>Detector battery can take up to 45 exposures per hour and provide enough power for 3 hours of use on a single charge</li> <li>Single panel (non-tiled) amorphous silicon detector with a Cesium Iodide scintillator</li> <li>Image area 40.4cm x 40.4cm (15.9in x 15.9in)</li> <li>Active matrix 2022 x 2022 pixels</li> <li>8mb raw image file size</li> <li>Pixel Pitch 200 microns</li> <li>Typical upper dynamic range 7.8mR</li> <li>Typical DQE @ 0lp/mm: (68%)</li> <li>Two handgrips</li> <li>Dimensions: L 23.1in., H 17.8in., T 0.94in. (L 580mm, H 452mm, T 24mm)</li> <li>Wireless point-to-point network between the system and detector for transferring image data <ul style="list-style-type: none"> <li>Communication over wide 500MHz channels to achieve very high data rates</li> <li>Designed to co-exist with 802.11 networks without interference</li> <li>Frequency: 3.1-10.6 GHz Max Power Output: -41.3 dBm</li> <li>Max PHY Data rate: 480 Mbps</li> <li>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</li> </ul> </li> <li>RJ45 10/100/1000 Base T Ethernet port</li> </ul>	

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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

#### X-ray Source

- Nominal Tube Voltage (radiographic) ~ 150kV
- Nominal Focal Spot size (IEC 60336)
  - Large Focus - 1.3 mm
  - Small Focus - 0.6 mm
- Anode Rotation Speed (minimal): 3200 min
- Permanent Filtration: 0.9 mm A1/75 kV IEC60522: 1999
- Maximum X-ray Tube Current
  - Large Focus: 500 mA
  - Small Focus: 200 mA
- Maximum Continuous Heat Dissipation: Without Air-circulator: 170W (238 HU/s)

#### Collimator

A pair of independent collimator blades control the X-ray field

- 180 lux (1000 Lumen/mt2) light field lamp
- The collimator rotates plus and minus 180 degrees with detents at -180, -90, 0, +90 and +180 degrees
- 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
- Drive Inhibit keypad access
- Password protected access to patient information for compliance with confidentiality regulations
- Automatic safety brake: Operator must hold drive handle to allow system movement
- Integrated front bumper stops unit and activates brakes

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			<p>when activated</p> <p>Please note: This product is subject to FCC rules and will comply with appropriate FCC rules applicable to WiFi enabled devices before delivery to the customer or distributor</p> <p>Wireless Connectivity</p> <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> <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> <p>Auto Protocol Assist</p> <p>Auto Protocol Assist for Optima XR200amx and Optima XR220amx</p> <p>Repeat/Reject Analysis</p> <p>Repeat/Reject Analysis for Optima XR220amx/Upgraded Optima XR200amx</p> <p>Optima XR220amx Training: 3 Days Onsite</p>	

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			Optima XR220amx Training: 3 Days Onsite (2 Days + 1 Day) One 2 day and one 1 day TiP onsite training visit for Optima XR220amx. Includes T&L expenses. Days provided in two customer visits. This training program must be scheduled and completed within 12 months after the date of product delivery.	