V.A. Medical Center
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Qty	Description
1	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 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 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

Qty	Description

- 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

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

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	- 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 when activated
1	Wireless Connectivity for Optima XR220amx and Optima XR200amx 802.11 a/b/g n-compatible wireless connectivity to hospital network Wi-Fi Certified Compatible with: • 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA 802.1X • AES - TKIP • 64-, 128-WEP • VPN: IPSec - IKE • Management Frame Protection (MFP) EAP Types: - LEAP - LEAP + 128-WEP - LEAP + WPA - EAP - TLS - EAP-TTLS/MSCHAPv2 - EAP-FAST - PEAP-GTC - PEAP/MSCHAPV2
1	Auto Protocol Assist for Optima XR200amx and Optima XR220amx

Qty	Description
1	Repeat/Reject Analysis for Optima XR220amx/Upgraded Optima XR200amx