

WAREHOUSE B32005
V.A. Medical Center
50 IRVING STREET NW
WASHINGTON, DC 20422

PO# 688-B32005

Qty	Description
1	<p data-bbox="402 457 899 520">Optima XR220amx Digital Mobile Radiographic system</p> <p data-bbox="402 541 930 674">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</p> <p data-bbox="402 695 545 722">Key Features</p> <ul data-bbox="418 730 938 1444" style="list-style-type: none"><li data-bbox="418 730 646 758">• 15 KW generator<li data-bbox="418 772 938 869">• Wireless Digital Flashpad Detector with 6:1 removable grid, Back-up tether, QAP (Quality Assurance Procedure)<li data-bbox="418 884 792 911">• Dose Area Product Meter (DAP)<li data-bbox="418 926 938 982">• Capable of 100-240V nominal, 50/60Hz operation<li data-bbox="418 997 938 1129">• 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<li data-bbox="418 1144 938 1201">• Detector battery charges automatically while the detector is in the bin<li data-bbox="418 1215 938 1312">• Optimized GUI - Technique, image acquisition and display tools in a single integrated user interface<li data-bbox="418 1327 938 1444">• The detector can be used in additional wireless enabled GE radiographic systems: please refer to the current literature for system compatibility <p data-bbox="402 1465 529 1493">Productivity</p> <ul data-bbox="418 1514 938 1761" style="list-style-type: none"><li data-bbox="418 1514 938 1591">• Up to 1,200 w of power available to minimize charge time<li data-bbox="418 1606 938 1663">• System can be driven within 4 seconds of activation<li data-bbox="418 1677 938 1734">• Pre-programmed techniques per anatomy and patient size<li data-bbox="418 1749 906 1776">• 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 5km/h (3.1mph on flat surfaces) forward and reverse to automatically adjust 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%
- 2 handgrips
- Dimensions: L-23.1in x 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 DICOM conformance statement for complete definition of supported DICOM services.

Generator

- 300 mA max
- 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: 1.3mm
 - Small Focus: 0.6mm
- Anode Rotation Speed (minimal): 3200 min
- Permanent Filtration: 0.9mm 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 controls the X-ray field

- 180 lux (1000 Lumen/mt²) light field lamp
- The collimator rotates +-180 degrees with detents at -180, -90, 0, +90 & +180 degrees
- Full 43cm x 43cm (17in) coverage at a 100cm SID
- The column may be rotated up to +- 270 degrees from the part position
- Drive Inhibit keypad access
- Password protected access to patient
- information for compliance with confidentiality regulations
- Automatic safety brake: Operator must hold drive handles 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 Repeat/Reject Analysis for Optima XR220amx/Upgraded Optima XR200amx
- 1 Sterile Protective Drapes - Detector Drape
- 1 Optima XR220amx Training: 4 Days Onsite (3 Days + 1 Day)
- One 3 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.