

BILLINGS VACBOC B30004
V.A. Medical Center
1775 SPRING CREEK LANE
BILLINGS, MT 59102
P.O.# 436-B30004

Item No.	Qty	Catalog No.	Description
	1		Optima XR220amx - 30Kw
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			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">• 30kW generator• Wireless Digital Detector with 6:1 removable grid, back-up tether, QAP (Quality Assurance Procedure)• 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
			<ul style="list-style-type: none">• 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

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			<p>patient size</p> <ul style="list-style-type: none"> • 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 <p>Wireless Digital Detector Specifications</p> <ul style="list-style-type: none"> • 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

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- 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
 - Small Focus: 200 mA
- Maximum Continuous Heat Dissipation: Without Air-circulator: 170W (238 HU/s)

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2	1		<p>Collimator</p> <p>A pair of independent collimator blades control the X-ray field</p> <ul style="list-style-type: none"> • 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
			<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"> • 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: <ul style="list-style-type: none"> - LEAP - LEAP + 128-WEP - LEAP + WPA

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		<ul style="list-style-type: none"> - EAP - TLS - EAP-TTLS/MSCHAPv2 - EAP-FAST - PEAP-GTC - PEAP/MSCHAPV2
3	1	<p>Repeat/Reject Analysis</p> <p>Repeat/Reject Analysis for Optima XR220amx/Upgraded Optima XR200amx</p>
4	1	<p>Sterile Protective Drapes - Detector Drape</p> <p>Sterile Protective Drapes - Detector Drape</p>
5	1	<p>Optima XR220amx Training: 4 Days Onsite</p> <p>Optima XR220amx Training: 4 Days Onsite (3 Days + 1 Day)</p> <p>One 3 day and one 1 day TiP onsite training visit for Optima XR220amx.</p> <p>Includes T&L expenses. Days provided in two customer visits.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>