

Bus. Progrs. Oper. B78032
 VA Medical Center
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Item No.	Qty	Catalog No.	Description	Contract Price	Discount	Ext Sell Price
	1		Optima XR220amx			
1	1		<p>30KW US VA FIPS 140-2 Wireless Security - The Optima XR220 includes FIPS 140-2 validated cryptography module for secure wireless connection to the hospital network.</p> <ul style="list-style-type: none"> o DHCP & static IP address are supported o Authentication Methods: EAP TLS & WPA2 PSK are supported <p>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</p> <p>Key Features</p> <ul style="list-style-type: none"> o 30kW generator o Wireless Digital Detector with 6:1 removable grid, back-up tether, QAP (Quality Assurance Procedure) o Dose Area Product Meter (DAP) o Capable of 100-240V nominal, 50/60 Hz operation o Stand-by mode to eliminate boot up cycles 			

and allow exposure within 25 seconds

- o Exposures can be taken and processed while the unit is charging
- o Detector battery charges automatically while the detector is in the bin
- o Optimized GUI - Technique, image acquisition and display tools in a single integrated user interface
- o The detector can be used in additional wireless enabled GE radiographic systems; please refer to the current literature for system compatibility

Productivity

- o Up to 1,200 w of power available to minimize charge time
- o System can be driven within 4 seconds of activation
- o Pre-programmed techniques per anatomy and patient size
- o Systems can be used without the detector
- o Modality Perform Procedure Step (MPPS; SPS/PPS configurable)
- o Automated and customizable image transfer to PACS and printers
- o Can reprocess images post acquisition and during an exam
- o Usage reporting tools by individuals and user groups
- o System Health dashboard for system status

- o Bin stores detector and grid
- o Built-in storage for cleaning wipes, gloves and lead apron
- o 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
 - o Detector battery can take up to 45 exposures per hour and provide enough power for 3 hours of use on a single charge
 - o Single panel (non-tiled) amorphous silicon detector with a Cesium Iodide scintillator
 - o Image area 40.4cm x 40.4cm (15.9in x 15.9in)
 - o Active matrix 2022 x 2022 pixels
 - o 8mb raw image file size
 - o Pixel Pitch 200 microns
 - o Typical upper dynamic range 7.8mR
 - o Typical DQE @ 0lp/mm: (68%)
 - o Two handgrips
 - o Dimensions: L 23.1in., H 17.8in., T 0.94in. (L 580mm, H 452mm, T 24mm)
 - o 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

- o RJ45 10/100/1000 Base T Ethernet port

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

Generator

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

X-ray Source

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

Collimator

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

- o 180 lux (1000 Lumen/mt²) light field lamp

- o The collimator rotates plus and minus 180

degrees with detents at -180, -90, 0, +90 and +180 degrees

- o 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

- o Drive Inhibit keypad access

- o Password protected access to patient information for compliance with confidentiality regulations

- o Automatic safety brake: Operator must hold

drive handle to allow system movement

- o Integrated front bumper stops unit and activates brakes when activated

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.

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Wireless Connectivity

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

Incl.

Incl.

Incl.

Drape
Sterile Protective Drapes - Detector
Drape

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Optima XR220amx Upgrade Training: 3
Days Onsite
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Days Onsite (2 Days + 1 Day)
One 2 day and one 1 day TIP onsite
training visit for Optima XR200amx to
Optima XR220amx upgrade.
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.