

XR PORT RAD, VAMC PITTSBURGH, PA  
PO# 646-B72017  
TRADE IN

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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.

- o DHCP & static IP address are supported

- o Authentication Methods: EAP TLS & WPA2 PSK

are supported

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

- 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

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.,

- o 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.

2	1	<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>
3	1	<p>Auto Protocol Assist</p> <p>Auto Protocol Assist for Optima XR200amx and Optima XR220amx</p>
4	1	<p>Repeat/Reject Analysis</p> <p>Repeat/Reject Analysis for Optima XR220amx/Upgraded Optima XR200amx</p>
5	1	<p>Sterile Protective Drapes - Detector Drape</p>

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Sterile Protective Drapes - Detector  
Drape

Optima XR220amx Upgrade Training:  
3 Days Onsite

Optima XR220amx Upgrade Training:  
3 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.

**Portable AMX**