



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 when it is not safe or practical to move the patient to the radiographic room.

Optima XR220amx is suited for routine radiographic procedures within a hospital including radiology departments, intensive care units, cardiac care units, emergency departments, operating rooms, orthopedics, pediatrics, hospital rooms and clinics.

Features

- FlashPad Lightweight detector designed for mobile use, weighs less than 4.5 kg (10 lbs.) including battery
- “Stand-by” mode eliminates boot up cycles and allows exposure within 25 seconds
- Designed for 24/7 availability. Use with battery or make and process exposures while the unit is charging
- Detector can support up to 160 Kg (352 lbs.) of distributed load for bariatric applications
- Detector battery charges automatically while the detector is in the bin
- Automatic charging algorithms allow the system to be re-charged even if batteries are not fully drained
- 15kW (nominal) generator and available 30kW(nominal) option



Specifications

Wireless Digital Detector

Detector battery can take up to 50 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: 40.4 cm x 40.4 cm (15.9 in x15.9 in)

Active matrix: 2024 x 2024 pixels

Pixel Pitch: 200 microns

Typical upper dynamic range: 7.8mR

Typical DQE: @ 0lp/mm: 68%)

Two handgrips

Detector Environmental Conditions

Temperature

Operating: 15°C to 35°C
Non-Operating: -0°C to 50°C (maximum change 20°C per hour)

Humidity

Operating: 10% to 80% RH, noncondensing(max. change 30% per hour)
Non-Operating: 10% to 95% RH, noncondensing (max. change 30% per hour)

Power

Capable of 100-240 V nominal, 50/60 Hz operation

System battery status display

X-Ray Source

Nominal Tube Voltage (Radiographic) 40 ~ 150 kV

Nominal Focal Spot size (IEC 60336):

- Large Focus: 1.2 mm
- Small Focus: 0.6 mm

Anode Rotation Speed (minimal): 3200 min⁻¹

Permanent Filtration: 0.9 mm Al/75 kV IEC60522: 1999

Maximum X-ray Tube Current

- Large Focus: 500 mA
- Small Focus: 200 mA

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

Maximum anode heat units: 140 kHU

Exposure time: 4.0 msec – 6.0 sec

